Commonwealth of Pennsylvania MS4 Annual Report

March 2016 - 2017

Prepared For



York City City, York County



Prepared By **CSDatum**

PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

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

For the Reporting Period: April 1 2016 March 31 2017 to

Annual Report New Permittee

Progress Report

Due Date: June 29 2017

Renewal Permittee

		<u>, 11</u>				
Permittee Name: City of Yo	ork.	NP	DES Permit No.:	PAG133	596	
Mailing Address: 101 S. George Street		Effe	ective Date:	April 1 2	D13	
City, State, Zip: York, PA	17401	Exp	piration Date:	March 31	2018	
MS4 Contact Person: Lettice B	own	Rei	newal Due Date:	October	2, 2017	
Title: MS4 Coo	rdinator	Adı	nin. Extended?	🗍 Yes	🛛 No	
Phone: (717) 324	6532	Mu	nicipality:	City of Y	ork	
Email: Ibrown@yorkcity.org		Co	unty:	York	· · · · · · · · · · · · · · · · · · ·	
Co-Permittees (if applicable):		·	, fen ⁴ in ³ tit - jug 4tit -			
WATER QUALITY INFORMATION						
Are there any discharges to waters within the Chesapeake Bay Watershed? 🛛 Yes 🔲 No						
Identify all surface waters that receive stormwater discharges from storm sewers within the MS4 urbanized area and provide the requested information (see instructions).						
Receiving Water Name	Ch. 93 Class.	Impaired?	Cause(s))	TMDL?	WLA?
Codorus Creek	WWF	Yes	Aquatic Lit	ie	No	No
UNT to Codorus Creek (Poorhouse Run)	WWF	Yes	Aquatic Lif	fe	No	
						No
UNT to Codorus Creek (Tyler Run)	WWF	Yes	Aquatic Lif	ie –	No	No No
UNT to Codorus Creek (Tyler Run) Mill Creek	WWF WWF	Yes Yes	Aquatic Lif	ie ie	No No	No No No
UNT to Codorus Creek (Tyler Run) Mill Creek Willis Run	WWF WWF WWF	Yes Yes Yes	Aquatic Lif Aquatic Lif Aquatic Lif	ie ie ie	No No No	No No No No
UNT to Codorus Creek (Tyler Run) Mill Creek Willis Run UNT to Willis Run	WWF WWF WWF	Yes Yes Yes Yes	Aquatic Lif Aquatic Lif Aquatic Lif Aquatic Lif	ie ie ie	No No No No	No No No No No
UNT to Codorus Creek (Tyler Run) Mill Creek Willis Run UNT to Willis Run UNT to Codorus Creek (Lightners Run)	WWF WWF WWF WWF	Yes Yes Yes Yes Yes	Aquatic Lif Aquatic Lif Aquatic Lif Aquatic Lif Aquatic Lif	ie ie ie ie	No No No No No	No No No No No

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

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

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N/A

How you completed all MCM activities required by the permit for this room	arting pariod? 🕅 Yes 🗍			
Provide ourrent context name and phase number information for the required	ired MCMs (if same as nade 1 b	Nu		
Provide current contact name and phone number information for the requ		Phone		
#1 Public Education and Outroach on Storm Water Impacts	Lettice Brown	(717) 324-6532		
#1 Public Education and Outreach on Storm Water impacts Lettice Brown (111) 324-6532 #2 Public Involvement/Participation Lettice Brown (717) 324-6532				
#2 Public Involvement/Participation (117) 324-6532 #3 Illicit Discharge Detection and Elimination (IDD&E) Lettice Brown (717) 324-6532				
#3 Inicit Discharge Detection and Elimination (IDD&E) Lettice Brown (117) 324-0532 #4 Construction Site Storm Water Runoff Control Relving on State Program N/A				
#4 Construction Site Storm Water Runoff Control Relying on State Program N/A #5 Post-Construction Storm Water Management in New Development and Redevelopment Lettice Brown (717) 324-6532				
#6 Pollution Prevention / Good Housekeeping Lettice Brown (717) 324-6532				
MCM #1 - PUBLIC EDUCATION AND OUTREAC	H ON STORM WATER IMP	ACTS		
BMP #1: Develop, implement and maintain a written Public Educatio	n and Outreach Program	······································		
Measurable Goal : For new permittees a Public Education and Outreach Program (PEOP) shall be developed and implemented during the first year of permit coverage and shall be re-evaluated each permit year thereafter and revised as needed. For renewal permittees, the existing PEOP shall be reviewed and revised as necessary. The permittee's PEOP shall be designed to achieve measurable improvements in the target audience's understanding of the causes and impacts of stormwater pollution and the steps they can take to prevent it.				
1. For new permittees only, attach the written PEOP or a summary thereof to the first report submitted to DEP.				
 If you are not a new permittee, did you complete and submit your written PEOP to DEP? Yes No If Yes, provide the latest submission date: June 29, 2017 				
3. Date of last evaluation of or revision to the PEOP: January 19, 2017				
4. What were the plans and goals for public education and outreach for the reporting period?				
To increase our public education and outreach to the public by attending public events, handing out information, refining our webpage, and create a social media page. More activities are listed in MCM 1 Appendix				
5. Did the MS4 achieve its goal(s) for the PEOP during the reporting period? \square Yes \square No				
Explain the rationale for your answer:				
The City of York attended the Go Green Event and the Olde York Street fair with information for the public, developed a social media page, utilized WRTV by running videos and slides pertaining to stormwater. More examples are listed in MCM 1 Appendix				
6. Identify specific plans and goals for public education and outreach for the upcoming year:				
The City of York will continue to utilize all platforms of information including WRTV, street fairs and public events, meetings, volunteer opportunities, new distribution materials, and putting information on the stormwater vehicle. MS4 Task force will continue to review the PEOP at least once a year and will modify when necessary.				
BMP #2: Develop and maintain lists of target audience groups prese	nt within the areas served by y	/our MS4		
Measurable Goal: For new permittees, the lists shall be developed within the first year of coverage under the permit and reviewed and updated as necessary every year thereafter. For renewal permittees, the lists shall continue to be reviewed and updated annually.				
 For new permittees only, attach your target audience list(s) to the first report submitted to DEP. 				

- 2. If you are not a new permittee, did you complete and submit your target audience list to DEP? 🛛 Yes 🗌 No If Yes, provide the latest submission date: June 29 2017
- 3. Date of last review or revision to target audience list(s): January 19, 2017

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

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

- 1. For new permittees only, attach your published stormwater educational or informational materials to the first report submitted to DEP.
- If you are not a new permittee, did you complete and submit your published stormwater educational or informational materials to DEP? Yes No

If Yes, provide the latest submission date: June 29 2017

- Do you have a municipal newsletter? X Yes X No
 If Yes, how often was it published during the reporting period and what MS4-related material did it contain?
 Our newsletter is published bi-annually and contains education, training, and general information relating to stormwater.
- Do you have a municipal website? X Yes No (URL: http://yorkcity.org/stormwater-management) If Yes, what MS4-related material does it contain? Articles, flyers, reports, videos, a feedback area/form, contact information for illicit discharges, links to social media pages, Powerpoint presentations, and links to other websites or local conservation organizations.
- 5. Describe any other method(s) used during the reporting period to provide information on stormwater to the public: Please see BMP 4
- 6. Date of most recent review and/or update to published stormwater educational materials: March 15, 2017
- Identify specific plans for the publication of stormwater materials for the upcoming year: Current methods and mediums will continue and be updated and refined along the way. Other ideas for publication will be discussed.

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

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

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

In addition to the website and our newsletter, the City has a kiosk of information located in the lobby of City Hall filled with pamphlets and activities. The City also utilizes door to door information handouts along with WRTV videos and slides with valuable information. Environmental education classes, which include MS4, is taught at some of the area schools yearly. The City also uses bill stuffers and presentations to the public.

MCM #2 - PUBLIC INVOLVEMENT/PARTICIPATION

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

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

- a. Opportunities for the public to participate in the decision-making processes associated with the development, implementation, and update of programs and activities related to this General Permit.
- b. Methods of routine communication to groups such as watershed associations, environmental advisory committees, and other environmental organizations that operate within proximity to the permittee's regulated small MS4s or their receiving waters.
- c. Making your periodic reports available to the public on your website, at your municipal offices, or by US Mail upon request.
- 1. For new permittees only, attach your written PIPP or a summary thereof to the first report submitted to DEP.
- 2. If you are not a new permittee, did you complete and submit your written PIPP or summary to DEP? X Yes No If Yes, provide the latest submission date: June 29, 2017
- 3. Date of last review and/or update to the PIPP: January 19, 2017
- 4. Explain how your PIPP addresses items a, b and c of the Measurable Goal:
 - A. We present information during our City Council meetings through Powerpoint presentations, and having flyers accessible to residents and City Council members.

B. The City of York partners with WAY (Watershed Alliance of York) for various activities including litter pick ups, tending to community gardens, and other activities. The City also participates in every CBPRP and Regional Committee meetings.

C. On our City website, we have provided access to our Annual Reports, which are also available for anyone who would like a copy through the mail.

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

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

- 1. Was an MS4-related ordinance or SOP developed during the reporting period?
- 2. If Yes, describe how you advertised the draft ordinance and how you provided opportunities for public review, input and feedback:
 - N/A
- 3. If an ordinance or SOP was enacted/developed or amended during the reporting period, provide the following information:

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

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

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

- 1. Date of the public meeting(s): N/A
- 2. How were meeting(s) advertised to the public? N/A
- Indicate where the meeting(s) were held and the number of attendees: N/A
- What types of MS4-related activities did you solicit public involvement and participation for?
 N/A
- 5. What MS4-related activities did the public participate in?

A public meeting was held during City Council meetings on February 2, 2016 and on May 24, 2017. During this permit year, there was a transition of responsibility for our MS4 program and due to the short amount of time for this transition, the City of York was unable to fullfill this requirement. However, the requirement for the next reporting period is on track and has been accomplished.

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

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

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

- 1. For new permittees only, attach your written IDD&E program to the first report.
- 2. If you are not a new permittee, did you complete and submit your written IDD&E program to DEP? X Yes No If Yes, provide the latest submission date: June 29, 2017
- 3. Date of last review and/or update to IDD&E program: January 19, 2017

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

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

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

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<u>-</u> .	For new permittees only, attach the completed map to the 4 th year Annual Report.	
3.	Date of last update or revision to map(s): March 15, 2017 (variable; GIS-based)	
4.	Total number of discharge points in your storm sewer system that:	
	Discharge directly to surface waters (outfalls): 218	
	Discharge to storm sewers owned by others: 6	
5.	Total number of outfalls that are mapped at this time; 369 (218 City, 134 Private, 6 Sealed)	
BN per intr inc	IP #3: In conjunction with the map(s) created under BMP #2 (either on the same map or on a different map), new rmittees shall show, and renewal permittees shall update, the entire storm sewer collection system, including roads, ets, piping, swales, catch basins, channels, basins, and any other features of the permittee's storm sewer system cluding municipal boundaries and/or watershed boundaries.	
Me and ma	easurable Goals: For new permittees, develop the map(s) by the end of the fourth (4th) year of coverage under the permit d update and maintain the map(s) as necessary each year of permit coverage thereafter. For renewal permittees, update and aintain the map(s) as necessary during each year of permit coverage.	
1.	Have you completed a map(s) that includes roads, inlets, piping, swales, catch basins, channels, basins, municipal boundaries and watershed boundaries? 🛛 Yes 🗌 No	
2.	If Yes, is the map(s) on the same map(s) as for outfalls and receiving waters? 🖾 Yes 🔲 No	
3.	For new permittees only, attach the completed map to the 4 th year Annual Report.	
4.	If you are not a new permittee, did you complete and submit your map to DEP? X Yes No If Yes, provide the latest submission date: June 29, 2017	
5.	Date of last update or revision to map: March 15, 2017 (variable; GIS-based)	
BN ide un	MP #4: Following the IDD&E program created pursuant to BMP #1, the permittee shall conduct outfall field screening, entify the source of any illicit discharges, and remove or correct any illicit discharges using procedures developed ider BMP #1.	
For all permittees, outfall inspections need to be prioritized according to the perceived chance of illicit discharges within the outfall's contributing drainage area. Observations of each outfall shall be recorded each time an outfall is screened, regardless of the presence of dry weather flow. Proper quality assurance and quality control procedures shall be followed when collecting, transporting or analyzing water samples. All outfall inspection information shall be recorded on the Outfall Reconnaissance inventory/Sample Collection field sheet excerpted from the Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments (CWP, October 2004). Adequate written documentation shall be maintained to justify a determination that an outfall flow is not illicit. If an outfall flow is illicit, the actions taken to identify and eliminate the illicit flow also shall be documented.		
of tra Inv Pro to illic	Itfall's contributing drainage area. Observations of each outfall shall be recorded each time an outfall is screened, regardless the presence of dry weather flow. Proper quality assurance and quality control procedures shall be followed when collecting, insporting or analyzing water samples. All outfall inspection information shall be recorded on the Outfall Reconnaissance ventory/Sample Collection field sheet excerpted from the Illicit Discharge Detection and Elimination: A Guidance Manual for ogram Development and Technical Assessments (CWP, October 2004). Adequate written documentation shall be maintained justify a determination that an outfall flow is not illicit. If an outfall flow is illicit, the actions taken to identify and eliminate the cit flow also shall be documented.	
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of tra Inv Pro to illio Th 1.	Ital's contributing drainage area. Observations of each outfall shall be recorded each time an outfall is screened, regardless the presence of dry weather flow. Proper quality assurance and quality control procedures shall be followed when collecting, insporting or analyzing water samples. All outfall inspection information shall be recorded on the Outfall Reconnaissance ventory/Sample Collection field sheet excerpted from the Illicit Discharge Detection and Elimination: A Guidance Manual for ogram Development and Technical Assessments (CWP, October 2004). Adequate written documentation shall be maintained justify a determination that an outfall flow is not illicit. If an outfall flow is illicit, the actions taken to identify and eliminate the cit flow also shall be documented. The results of outfall inspections and actions taken to remove or correct illicit discharges shall be summarized in periodic reports. For new permittees only, were at least 40% of all outfalls screened during dry weather? Yes No If Yes for #1, indicate the number screened and the percent of all outfalls it represents. If No for #1, indicate reason(s) why this was not completed: Are you on pace to screen all outfalls twice during the permit term? Yes No	
of tra inv Pro illic Th 1.	itfall's contributing drainage area. Observations of each outfall shall be recorded each time an outfall is screened, regardless the presence of dry weather flow. Proper quality assurance and quality control procedures shall be followed when collecting, insporting or analyzing water samples. All outfall inspection information shall be recorded on the Outfall Reconnaissance ventory/Sample Collection field sheet excerpted from the Illicit Discharge Detection and Elimination: A Guidance Manual for ogram Development and Technical Assessments (CWP, October 2004). Adequate written documentation shall be maintained justify a determination that an outfall flow is not illicit. If an outfall flow is illicit, the actions taken to identify and eliminate the cit flow also shall be documented. The results of outfall inspections and actions taken to remove or correct illicit discharges shall be summarized in periodic reports. For new permittees only, were at least 40% of all outfalls screened during dry weather? Yes No If Yes for #1, indicate the number screened and the percent of all outfalls it represents. If No for #1, indicate reason(s) why this was not completed: Are you on pace to screen all outfalls twice during the permit term? Yes No For renewal permittees, indicate the percent of outfalls screened during the reporting period: 31%	
of tra Inv Pro to illic Th 1.	titali's contributing drainage area. Observations of each outfall shall be recorded each time an outfall is screened, regardless the presence of dry weather flow. Proper quality assurance and quality control procedures shall be followed when collecting, insporting or analyzing water samples. All outfall inspection information shall be recorded on the Outfall Reconnaissance ventory/Sample Collection field sheet excerpted from the Illicit Discharge Detection and Elimination: A Guidance Manual for ogram Development and Technical Assessments (CWP, October 2004). Adequate written documentation shall be maintained justify a determination that an outfall flow is not illicit. If an outfall flow is illicit, the actions taken to identify and eliminate the cit flow also shall be documented. The results of outfall inspections and actions taken to remove or correct illicit discharges shall be summarized in periodic reports. For new permittees only, were at least 40% of all outfalls screened during dry weather? □ Yes □ No If Yes for #1, indicate the number screened and the percent of all outfalls it represents. If No for #1, indicate reason(s) why this was not completed: Are you on pace to screen all outfalls twice during the permit term? □ Yes □ No For renewal permittees, indicate the percent of outfalls screened during the reporting period: 31% Are you on pace to screen all outfalls once during the permit term? ☑ Yes □ No	

3.	For all permittees, indicate the percent of outfalls screened that revealed dry weather flows: 8%
4.	Did any dry weather flows reveal color, turbidity, sheen, odor, floating or submerged solids? 🗌 Yes 🛛 No
5.	If Yes for #4, attach all sample results to this report with a map identifying the sample location. Explain the corrective action(s) taken in the attachment.
6.	Do you use the "Outfall Reconnaissance Inventory / Sample Collection Field Sheet" provided in the permit?
	X Yes 🔲 No
	If No, attach a copy of your monitoring form.
BM imp the	IP #5: Enact a stormwater management ordinance (municipal entities) or develop an SOP (non-municipal entities) to plement and enforce a stormwater management program that includes prohibition of non-stormwater discharges to regulated small MS4.
Me fror thai nor yea	asurable Goal: Within the first year of coverage under the permit, new permittees shall enact and implement an ordinance m an Act 167 Plan approved by the Department in 2005 or later, the MS4 Stormwater Management Ordinance; or an ordinance t satisfies all applicable requirements in a completed and signed MS4 Stormwater Management Ordinance Checklist. (For n-municipal permittees, new permittees shall develop and implement a Standard Operating Procedure (SOP) within the first or of coverage).
Rei sati it sl	newal permittees must continue to maintain, update, implement, and enforce a Stormwater Management Ordinance that isfies all applicable requirements. (For non-municipal permittees, the SOP satisfies this requirement. If no existing SOP exists, hould be developed during the first year of coverage).
Me soli of t to t	asurable Goal: New permittees shall submit a letter signed by a municipal official, municipal engineer, or the municipal icitor as an attachment to their first year report certifying the enactment of an ordinance that meets all applicable requirements his permit. Renewal permittees shall update their existing ordinance, if necessary, and submit documentation of completion he Department. (For non-municipal permittees, submit the SOP to the first report).
1.	Do you have an ordinance (municipal) or SOP or other mechanism (non-municipal) that prohibits non-stormwater discharges? 🛛 Yes 🔲 No
	If Yes, indicate the date of the ordinance or SOP: October 4, 2011
2.	For new permittees only, attach an ordinance (or SOP) and letter from an official, engineer or solicitor that prohibits non- stormwater discharges to the first report submitted to DEP.
3.	If you are not a new permittee, did you complete and submit your ordinance (or SOP) and letter from an official, engineer or solicitor that prohibits non-stormwater discharges to DEP? 🔯 Yes 🔲 No
4.	Were there any violations of the ordinance during the reporting period? 🛛 Yes 🔲 No
	If Yes, describe what enforcement actions were taken for each violation:
	See MCM 3 Appendix for this information
BM gen	P #6: Provide educational outreach to public employees, business owners and employees, property owners, the neral public and elected officials (i.e., target audiences) about the program to detect and eliminate illicit discharges.
Mea be (stor cov time the 1.	asurable Goals: During each year of permit coverage, appropriate educational information concerning illicit discharges shall distributed to the target audiences using methods outlined under MCM #1. If not already established, set up and promote a mwater pollution reporting mechanism (e.g., a complaint line with message recording) by the end of the first year of permit erage for the public to use to notify you of illicit discharges, illegal dumping or outfall pollution. Respond to all complaints in a ely and appropriate manner. Document all responses, include the action taken, the time required to take the action, whether complaint was resolved successfully.
	period? X Yes No

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If Yes, what was distributed? IDDE information was distributed through flyers, WRTV, on the City website, and the 24-hour phone number, contact person, and email has been distributed to the public as well

2. Is there a well-publicized method for employees, businesses and the public to report stormwater pollution incidents?

🛛 Yes 🗌 No

3. Do you maintain documentation of all responses, action taken, and the time required to take action? 🛛 Yes 🔲 No

MCM #4 - CONSTRUCTION SITE STORM WATER RUNOFF CONTROL

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

Yes Do (If No, complete all remaining guestions for this MCM; if Yes, skip to MCM #5).

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

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

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

- 1. For new permittees only, attach the written stormwater associated with construction activities program to the first report submitted to DEP.
- 2. If you are not a new permittee, did you complete and submit your written stormwater associated with construction activities program to DEP? [] Yes [] No

If Yes, provide the latest submission date:

3. Date of last update or revision to the stormwater associated with construction activities program:

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

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

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

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

If Yes, provide the latest submission date:

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

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

1. Identify the mechanism(s) in place to regulate construction site operators and wastes produced at construction sites:

2. During the reporting period what has been the results of implementing the mechanism(s) described above?

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

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

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

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

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

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

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

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

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

If Yes, provide the latest submission date:

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

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

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

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

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

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

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

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

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

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

1. Do you have an ordinance (or SOP) to address post-construction stormwater runoff from new and redevelopment projects and does it include sanctions? 🛛 Yes 🗌 No

If Yes, indicate the date of the ordinance or SOP: October 4, 2011

For new permittees only, attach a copy of the ordinance or SOP.

- 2. If you are not a new permittee, has the ordinance (or SOP) been submitted to DEP with a letter from an official, engineer or solicitor that certifies the enactment of an ordinance or SOP for PCSM activities? 🖾 Yes 🔲 No
- 3. Do you have authority to take enforcement action for failure to properly operate and maintain stormwater practices/facilities? ⊠ Yes □ No

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

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

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

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

No new city ordinances were enacted during this reporting period to ensure consistency with LID practices. The ordinances were not modified either. The City's Act 167 Stormwater Ordinance promotes reasonable development and protects natural features. Since the City is well urbanized and developed, re-development is the main and best opportunity to require the implementation of Stormwater infrastructure.

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

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

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

- all PCSM BMPs that were installed to meet requirements in NPDES Permits for Stormwater Discharges Associated with Construction Activities approved since March 10, 2003;
- the exact location of the PCSM BMP (e.g., street address);
- information (e.g., name, address, phone number(s)) for BMP owner and entity responsible for BMP Operation and Maintenance (O&M), if different from BMP owner;
- the type of BMP and the year it was installed;
- maintenance required for the BMP type according to the Pennsylvania Stormwater BMP Manual or other manuals and resources;
- the actual inspection/maintenance activities for each BMP;
- an assessment by the permittee if proper operation and maintenance occurred during the year and if not, what actions the
 permittee has taken, or shall take, to address compliance with O&M requirements.
- 1. For new permittees only, attach the written inspection program to ensure that stormwater BMPs are properly operated and maintained.
- If you are not a new permittee, did you complete and submit your written inspection program to ensure that stormwater BMPs are properly operated and maintained to DEP? Yes No
 If Yes, provide the latest submission date: June 29, 2017
- How do you ensure that stormwater BMPs are properly operated and maintained? Explain if you rely on means other than municipal inspections to ensure adequate O&M (consistent with your stormwater ordinance).
 Currently, the City engineer is responsible for the inspections of City BMPs, however, this is transitioning to the City's newly created MS4 Coordinator position during the next year.
- 4. Date that inspection program was last reviewed or updated: January 19, 2017
- 5. Total number of sites with PCSM BMPs installed as of the date of this report: 41
- 6. Total number of sites inspected during this reporting period: 3

- 7. Number of sites found to have PCSM BMP deficiencies: 0
- 8. Number of enforcement actions taken during this reporting period: 0

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MCM #6 - POLLUTION PREVENTION / GOOD HOUSEKEEPING

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

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

- 1. Have you identified all facilities and activities owned and operated by the permitee that have the potential to generate stormwater runoff into the MS4? 🖾 Yes 🔲 No
- 2. When was the inventory last reviewed? January 19, 2017
- 3. When was it last updated? January 19, 2017
- 4. How many new facilities and/or activities were added to this inventory during this reporting period? 0

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

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

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

- 1. For new permittees only, attach the written O&M program to the first Annual Report.
- 2. If you are not a new permittee, did you complete and submit your written O&M program to DEP? X Yes I No

If Yes, provide the latest submission date: June 29, 2017

3. Date of last review or update to O&M program: January 19, 2017

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

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

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

- 1. For new permittees only, attach the written training program to the first Annual Report.
- 2. If you are not a new permittee, did you complete and submit your written training program to DEP? X Yes No If Yes, provide the latest submission date: June 29, 2017
- 3. Date of last review or update to training program: January 19, 2017
- 4. Identify the date(s) of employee training, the names of attendees, the topics covered, and the training presenters: Please see MCM 6 Appendix for this information

BEST MANAGEMENT PRACTICES (BMPs)

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

The City engineers and the MS4 Coordinator will continue to review and revise each Minimum Control Measure Project Plan as they deem necessary. The City feels it has complied with all requirements of the permit adequately.

MS4 TMDL Plan	Chesapeake Bay Pollutant Reduction Plan (CBPRP)
Is the permittee required to develop an MS4 TMDL Plan? ☐ Yes ⊠ No	Is the permittee required to develop a CBPRP? ⊠ Yes □ No
What is the status of the TMDL Design Details (if applicable)?	What is the status of the CBPRP (if applicable)?
 Under Development (Due Date:) Submitted to DEP (Submission Date:) Approved by DEP (Approval Date:) 	 Under Development (Due Date:) Submitted to DEP (Submission Date:) Approved by DEP (Approval Date: 8/31/2015)

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

The City is a member of and attends the York County-wide Chesapeake Bay Pollution Reduction Plan. As stated above this plan was approved by DEP on August 31, 2015.

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

York City is a participant in the approved York County Regional CBPRP. The Regional Plan has a reporting period of September 1 through August 31 based on the Plan approval date. The Regional CBPRP Annual Progress Report for the period September 1, 2015 through August 31, 2016, was submitted to DEP on November 30, 2016. Copies were provided for DEP to place one in the file of each participating municipality with an MS4 Permit.

3800-FM-BPNPSM0491 Rev. 4/2014 MS4 Annual/Progress Report

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

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BMP Name / Description	DA (sf)	Latitude	Longitude	Receiving Waters	Date Installed or Implemented	NPDES Permit?
Keystone ColorWorks		39°57'52"	76°43'56"	Codorus Creek		
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OTHER REQUIRED REPORT ELEMENTS

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

The City of York hired a full time MS4 Coordinator to take over the responsibility of the City's MS4 program. This person will continue to monitor and revise the MS4 program and will continue to participate in the York County Regional Chesapeake Bay Pollution Reduction Plan effort. The plan funds numerous projects with the intent of lowering the amount of pollution discharged to the Bay.

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

The MS4 Coordinator is transitioning to take over all of the City's BMP inspections, IDDE investigations, annual reporting, inspections, and distribution of information during the next reporting cycle. New information platforms, ideas, flyers, and public outreach programs are likely to be developed within the next year as well. The City of York is also vying for more public information by wrapping our Stormwater vehicle in graphics that will provide easy access to IDDE information, along with promotion of the plan.

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

The City has deveoped and submitted a memorandum of understanding with the York County Conservation District to define the County's and the City's roles involving E&S plans and permitting requirements of MCM 4 & 5.

CERTI	FICATION
I certify under penalty of law that this document and all at in accordance with a system designed to assure that information submitted. Based on my inquiry of the per- directly responsible for gathering the information, the in belief, true, accurate, and complete. I am aware that the including the possibility of fine and imprisonment for kr	tachments were prepared under my direction or supervision qualified personnel properly gathered and evaluated the son or persons who manage the system or those persons information submitted is, to the best of my knowledge and are are significant penalties for submitting false information, nowledge of violations. See 18 Pa. C.S. § 4904 (relating to
diswon rashcaton).	
Char Green	Mila Harrison
	(/M V-/ //
Name of Responsible Official	Signatu/e
(717) 324-6599	6/2/17
Telephone No.	Date

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MCM #1 Appendix

- MCM #1 Project Plan
- BMP 1.3 Attachments
 - 2017 Spring Summer Public Newsletter.pdf
 - 2016 Fall Winter Public Newsletter.pdf
 - Stormwater Information Available on Website

• BMP 1.4 Attachments

- Go Green Photo2.pdf
- Go Green Photo 1.pdf
- White Rose TV Slides
- Handouts Available In City Hall
- Log of City Hall Handout Usage
- MS4 Resident Doorhanger and Distribution Log
- Hazardous Waste Flyers
- DEP Posters
- Trash Flyer
- Stormwater Runoff Challenge
- When It Rains It Drains Brochure
- 10 Things You Can Do To Save The Bay

MCM #1 Project Plan

• BMP 1.1

Description:

Develop, Implement and maintain a written Public Education and Outreach Program <u>Measurable Goal</u>:

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

Action Plan:

The York City MS4 taskforce will review and revise this plan on an annual basis, at a minimum. The plan shall include the minimum required activities, and note all additional activities performed within the City that exceed minimum requirements. On January 19, 2017, the following members of the MS4 Taskforce reviewed and revised the PEOP: MS4 Coordinator - Lettice Brown, Assistant Deputy Director of Public Works - Chaz Green, City Engineer - Jeff Shue, P.E., C.S. Davidson Representative - Derek Rinaldo, E.I.T.

• BMP 1.2

Description:

Develop and maintain lists of target audience groups present within the areas served by your MS4 <u>Measurable Goal</u>:

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

Action Plan:

The City of York will review and revise this list on an annual basis, at a minimum. It shall be ensured that all activities included as part of this plan are intended to reach a minimum of one identified target audience groups. York City's current target audiences are: City residents, City Property Owners, City Businesses, Elected Officials, School Students, Contractors, Visitors, and City Employees. It is to be noted that while the education of City Employees will be covered more indepth as part of MCM #6 requirements, the City has a residency policy which requires all City employees hired after February 1, 1994 to reside within the City. Therefore, education of our employees is also education of the City Residents.

• BMP 1.3

Description:

Annually publish at least one educational item on your Stormwater Management Program <u>Measurable Goal</u>:

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

Action Plan:

i) Printed material:

City Newsletter – The City publishes a quarterly newsletter which is distributed to all mailing addresses within the City. Each newsletter will include a minimum of one article relating to good

stormwater practices or other stormwater quality educational topic. The Director of Public Works and the Environmental Services Supervisor are responsible for ensuring that information is provided semi-annually for inclusion with the newsletter. Based on the newsletter's distribution method, the target audience groups have been identified to be City residents, City property owners, and City businesses.

ii) Website:

Information and Links on Website – The City's website, www.yorkcity.org, contains an entire page dedicated to stormwater management educational information and links to partnering organizations. This page is administered by the MS4 Coordinator and is targeted towards City Residents. Content is added to the website periodically throughout the year, including a copy of the latest Annual Report submission.

• BMP 1.4

Description:

Distribute stormwater educational materials to target audiences <u>Measurable Goal</u>:

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

Action Plan:

The following distribution methods will be utilized in addition to the activities identified in BMP 1.3:

i) City Hall

 Pamphlets at City Hall – An assortment of Stormwater related pamphlets will be printed and continuously stocked in a kiosk located on the first floor of City Hall. The number of pamphlets distributed will be tracked to measure the effectiveness of this activity. The MS4 Coordinator has been tasked with tracking the number of pamphlets distributed and ensuring that the kiosk remains supplied. The target audience groups of this activity are City Residents and Visitors.
 Building Permits – The Zoning Officer and the Director of Permits are responsible for ensuring that educational material relating to stormwater management and good construction practices is attached to all issued building permits. This activity is intended to target contractors working within the City and City property owners.

ii) Education:

Environmental Education Classes - The Environmental Services Supervisor conducts a program annually within the York City School District to educate students on various environmental issues of today. The target audience for this activity is school students with the success of the program being tracked by the total number of students in attendance. The effectiveness of the presentation is also tracked through evaluation forms completed by the school teachers.

iii) Local Cable TV

(1) Illicit Discharge Hotline – The City utilizes White Rose Community Television to publicize their illicit discharge hotline. The message is intended to reach the residents of the City to educate them on the proper means of contacting the City in the event an illegal dumping or other form of stormwater pollution is discovered. The MS4 Coordinator is responsible for the content of the advertisement.

(2) Stormwater Informative Video – The City has included a link to a stormwater informative video, created by the Chesapeake Bay Program, on its website. The proposed target audience group is City residents.

iv) Utility Bills:

City Sewer Bills - At least once per permit year, the City will include a message relating to good

stormwater practices within the sewer bill. The Operations Manager will be responsible for supplying the information to the billing department. The target audience group for this outreach is City property owners.

v) Public Meetings:

MS4 Public Meeting – A public meeting, as required by BMP 2.3, will be held annually at a minimum. The Public Works Director, MS4 Coordinator, and City Engineer are responsible for the scheduling and content of this meeting. While the main objective of the meeting is to educate City residents and solicit their opinions and ideas for successful permit compliance, it also presents an opportunity to educate the City elected officials on the importance of the MS4 program.

vi) Internal Meetings and Training

(1) MS4 Taskforce Meetings – The City has organized an MS4 Task Force to ensure continued compliance with the MS4 program protocols. The task force is comprised of City staff and consultants who meet regularly to review current and future MS4 activities and create action plans for their successful completion. This forum provides a unique opportunity for education of City employees while meeting the objectives of the permit.

(2) Article in City Employee Newsletter – The MS4 Coordinator is responsible for providing an educational stormwater article to be included in each employee newsletter. This newsletter reaches all City employees, who are also all City residents.

(3) Training - A combination of external and internal training programs for City employees have been identified as part of the requirements of BMP 6.3. The MS4 Coordinator is responsible for tracking the seminars and training events held by the City and also those attended by City employees outside the City.

THE CITY OF YORK THE DEPARTMENT OF PUBLIC WORKS **101 SOUTH GEORGE STREET, PO BOX 509 YORK PA 17405**



*****ECRWSS***** **POSTAL CUSTOMER**

PUBLIC WORKS Update SPRING/SUMMER 2017

Honorable C. Kim Bracey, Mayor



Environmental and Recreation & Parks

www.yorkcity.org

ENVIRONMENTAL BUREAU

All persons in York City are required to recycle according to State law, Act 101 and local ordinance 952, (resident, commercial, institutional). Designated items include paper (office paper, tablet paper, envelopes, junk mail, magazines, phone books), cardboard, and chipboard (cereal, tissue and other product boxes; paper towel and toilet paper rolls), glass & metal food and beverage containers and plastic bottles/jars with #1-7 (as a bottle/jar, neck must be smaller than bottom) All butter tubs, dessert cups, and plastic bags are trash. If you are not recycling, begin immediately. Non-compliance may result in fines of up to \$600.

CITYWIDE LITTER CLEANUP, Saturday, April 1st

Volunteers to register at City Hall parking lot, 101 S George St between 7:30-8:00 a.m. Cleanup 8:00-11:00 a.m. (Rain date: 4/8)

LITTER CLEANUPS by Adopt-A-Block volunteers will be on 4/8; 6/10; 8/12; and 10/7

ELECTRONICS EVENTS

Effective January 24, 2013 certain items may not be discarded in the normal trash: 1)TVs; 2) Computers; 3) Items that connect to computers (such as printers, modems, keyboards, etc). These items must be taken by the customer to an Electronics program for proper handling.

The York County Solid Waste Authority holds a weekly drop-off for all York County residents, Tues/Wed/Thurs 1:30-4:30 p.m. For more details and a complete list of other Electronics sites in York County, go to the YCSWA website at www.ycswa.com or call YCSWA 845-1066 for more information

YARD WASTE FACILITY (Memorial Stadium)

This site is open the first Saturday of each month 10 am-2 pm, weather permitting. (Bring proof of residency) NO GRASS! Open: 4/1; 5/6; 6/3; *7/1; 8/5; 9/2; 10/7; 11/4; 12/2 Closed: January, February & March

CURBSIDE YARD WASTE COLLECTIONS begin on the first recycling day in March (weather permitting) and continue through mid December.

UPCOMING HOLIDAY CURBSIDE COLLECTIONS

Memorial Day - No collections on Monday, 5/29 All collections (Mon – Fri) this week will be delayed 1 day. Independence Day - - No collections on Tuesday, 7/4 All collections (Tues - Fri) this week will be delayed 1 day Labor Day - No collections on Monday, 9/4 All collections (Mon - Fri) this week will be delayed 1 day.

Printed on Recycled Paper

LARGE- ITEM COLLECTION

York City Curbside Customers may call 843-1240 Mon–Thurs, 9:00 a.m. to 3:30 p.m. to schedule up to 5 normal household furniture/appliances. Some excluded items must be handled privately.

REFUSE COLLECTIONS The City's hauler is Republic Services thru April 30, 2021. Place trash in plastic or metal can with a lid and handles and/or in securely tied trash bags (Max: 32 gals; 40lbs). (Contractor bags, leaf bags, grocery bags, large "tote" cans and any trash cans over 32 gals, plastic/metal drums, cardboard boxes, milk crates, and laundry baskets may NOT be used for regular trash.) Illegal containers may be disposed of. No refunds/replacements will be given.





CONTAINERS & BAGS FOR SALE to individual residents for their specific York City dwelling. Quantities will not be sold to landlords or management companies.

Green Recycling Bin OR Can Yard Waste Cans Yard Waste Kraft Paper Bags

\$3.00/limit 1 \$3.00/limit 1 \$5.00/pack of 10



Reduced pricing is made possible, in part, due to a grant from the Department of Environmental Protection, in conjunction with York County Solid Waste and Refuse Authority. Yard Waste bags remain \$5.00 for each pack of 10 bags.

The items above are available at the Public Works Department, <u>101 S</u> George Street, 2nd floor, M-F, 8 a.m. - 5 p.m. Customers must show proof of residency (i.e. driver's license or bill). Yard waste cans/bags not available December–February. <u>Recycling containers must remain</u> with the property.

Illicit Discharges

An illicit discharge is anything other than stormwater flowing into a storm drain (grass clippings, paint, leaking vehicle fluids, excess fertilizers, grease, toxins, excess sediment (dirt), and pet wastes). Never throw any of these into streets, curbs, or storm drains. Remember stormwater does NOT get treated before flowing into creeks and streams. If you see anyone dumping illegal substances into a storm drain or onto the street/gutter, call the Public Works Department at 717-849-2245 OR the MS4 Coordinator at 717-324-6532.

YORK CITY RECREATION & PARKS BUREAU 101 South George Street, PO Box 509, York PA 17405 Office Hours: Monday – Friday, 8:00 am to 5:00 pm Phone: 717.854-1587 * Fax: 717.845.7457 www.yorkcity.org

Important #'s

City Hall Main Desk 849.2301 * Mayor's Office 849.2221 FYI Line 845.3949 * City Council 849.2246 Economic & Community Development 849.2264 Health Bureau 849.2299 * Human Resources 849.2244 Housing Services 849.2264 Fire Non-Emergency Calls/Code Enforcement 854.3921 Parking Bureau 849.2259 Police Non-Emergency Calls 854.5571 * Police Main Desk 846.1234 Sewer Refuse 849.2268 or 852.8173 * Traffic Fines 849.2236 Treasurer's Office/Tax Collection 849.2281 Yard Sale Permits 849.2256 * York City Events 849.2217 **Sewer Emergency 894.1187**

CITY OFFICE CLOSED FOR HOLIDAYS

Friday, April 14th Monday, May 29th Tuesday, July 4th Monday, September 4th Good Friday (Trash Hauler IS collecting) Memorial Day Independence Day Labor Day

MISSION STATEMENT/POLICIES

The **mission** of the York City Recreation & Parks Bureau is to meet the recreation needs of York City residents by providing direction, planning and



coordination of services to enhance their quality of life through year-round leisure programs and facilities that will develop and enhance the individual's physical, emotional, mental and social well-being. **Policies** - York City Recreation and Parks reserves the right to: Cancel a program for any reasonable cause. To deny registration or entry into a program when it deems necessary to assure public safety. To suspend a child from a program, with no refund, after notifying a parent of disciplinary

problems. To adjust any of the program details printed in this publication or any other City publication regarding fees, locations, instructors, times, days and starting dates. **Park Rules** - No person or vehicle shall remain in any park between the hours of 10:00 pm and 6:00 am unless by permit or authorized by the Director. No person shall drive through or park a motor vehicle partially or totally on lawn areas of any park unless otherwise permitted. No alcoholic beverages are permitted in any park. No littering. All trash must be disposed of in the proper containers. (Codified Ordinance Article 741.02) Feeding of water fowl is prohibited. All dogs must wear a collar displaying current license and current rabies vaccination verification tags and shall be under control of a leash when on City sidewalks or streets or upon any public property such as parks and buildings of the City.

(Ord. 7-1996 §1. Passed 5-21-96.) No owner or keeper of any dog shall allow or permit any such dog to excrement upon any public or private property of the City unless such owner or keeper removes the excrement and disposes of same in a sanitary manner. (Ord. 5-2012. Passed 2-21-12.) Whoever violates any provision of this article shall be subject to penalty.

For more program information or to register, call 717-854-1587

YOUTH ACTIVITIES

42nd Annual Easter Egg Hunt at Kiwanis Lake **Saturday, April 8th at 1 pm (Ages 1 to 8)** Rain date, Sunday, April 9th at 1 pm

Bring your basket or a container to collect the eggs.

18th Annual William Shaffer "Kids Hooked On Fishing" Trout Fishing Derby Kiwanis Lake (rain or shine event) Saturday, April 1st, 8 am to 12 pm Ages 15 and under accompanied by parents.

2017 Summer Playground Program June 19th through July 27th

Monday through Thursday, 8 am to 4 pm **Registration: June 12th through 15th**, 4:30 to 6:30 pm Registration location to be determined. Park Sites: Allen Park, Bantz Park, Lincoln Park, Memorial Park Complex and Yorktown Park. There will not be an evening program at Penn this year. Registration Fee (Cost for six (6) week program): City Residents - \$25.00 for 1st child / \$20.00 each additional child Non-City - \$55.00 for 1st child / \$50.00 each additional child Additional fees will apply for field trips.

24th Annual Free Art in the Park Program

Monday through Friday, 6:30 to 7:30 pm Allen Park – June 19th through June 23rd Yorktown Park – June 26th through June 30th Albemarle Park – July 3rd through July 7th *No program on July 4th*. Lincoln Park – July 10th through July 14th Penn Park – July 17th through July 21st

ATHLETICS

Memorial Park Batting Cages (Rockdale & Vander Aves) **Open April 3 through end of September (weather permitting)** Monday through Thursday 5-9 pm & Saturday and Sunday 12-4 pm Cost: \$1.00 (14 pitches). Available for rentals 15, 30 or 60 minutes.

Summer Leagues: Basketball begins May 30th at Voni B. Grimes Gym. **Beach Volleybal** begins May 30th at the Memorial Park Complex. For more information call the Recreation & Parks office at 717-854-1587.

SPECIAL EVENTS/ACTIVITIES

Box Lunch Revue: Tues & Thurs, May 2 - Aug 31, 11:30 am-1:00 pm (Cherry Lane Park)

42nd Annual Olde York Street Fair: Sun, May 14, 12:30-6:00 pm (In and around Continental Square in Downtown York)

Yorkfest Arts Festival: Aug 26 & 27, beginning at 10 am Downtown York, surrounding the Colonial Court House Complex, portions of the York Co Heritage Rail Trail (Philadelphia-Princess Sts), Market St (Codorus Creek & Beaver St to first block of N Pershing Ave).

23rd Annual York Bike Night: Fri, Sept 29, 6:00-10:00 pm (In and around Continental Square in Downtown York)

Save the Dates:

Labor Day Festival: 9/4 Light Up York: Saturday, 12/2 (NOTE NEW DAY FOR 2017) New Year's Eve Celebration – 12/31

FREE SUMMER MOVIE SERIES – KIWANIS LAKE June 7th – July 26th (Wednesday Evenings)

PG/family oriented movies (weather permitting) begin at dusk (around 8:15 pm). Bring favorite snack, lawn chair or blanket. For a complete movie list, visit <u>www.yorkcity.org</u> or check the local newspaper.

LINCOLN PARK FREE CONCERT SERIES

Featuring Jazz, R&B, Top 40 and Classic Rock- **STAY TUNED! Visit our website in May for the complete schedule. C**oncerts begin at 7:00 pm (weather permitting). Bring your favorite snack, lawn chair or blanket and enjoy the show.

PARK/SPECIAL EVENT PERMIT

To reserve a park for your next family picnic or special event, submit your application <u>online 30 days prior to the date of your scheduled</u> <u>event (www.yorkcity.org/york-city-event-permit</u>). Fees will apply.

FREQUENTLY ASKED QUESTIONS

TREE TRIMMING? (Codified Ordinance Article 913)

913.03 (a) Any tree or shrub which overhangs any sidewalk, street or public place in such a way as to impeded or interfere with traffic or travel on such public place including City street sweepers and other vehicles requiring a high clearance on roadways, shall be trimmed by the owner of the abutting premises on which such trees or shrub grows, to a height of a minimum of fourteen feet above the roadway and eight feet above the sidewalk so that the obstruction shall cease (Ord. 5-1995. Passed 4-18-95) (b) Any tree or limb of a tree which has become likely to fall on or across any public way or place, shall be removed by the owner of the premises on which such tree grows or stands.

WHEN WILL STREET SWEEPING RESUME?

City wide street sweeping will begin March 15th ending in mid-November. The fine for parking in an area during designated street sweeping days is \$50.00. For questions about when a street is posted for no parking please call the Highway Bureau at 849.2320.

HOW DO I REPORT A STREET LIGHT PROBLEM?

Identify the exact location (street name, closest address of a building), include the pole number (ten-digit number located on a yellow metal tag on the pole, *example* 22550-28665). If the number is missing from the pole this should be reported along with the exact location. **Identify** the problem (light out, goes on and off, on during daylight hours). **Report** the problem by calling the Bureau of Electrical and Building Maintenance 845.9351 or email cgodfrey@yorkcity.org. Allow two to three weeks to make a repair.

HOW DO I REPORT A POT HOLE?

Call the hot line, 717.849.2228, for any street problems-pot holes, inlets clogged, signs, snow removal or sweeping. Please give exact location (street name, block). Leave a message on the 24-hour service. If you wish to speak with someone, call 849.2320 between 7:00 am & 3:30 pm, Monday-Friday.

CURBS & SIDEWALKS, REPAIRS & REPLACEMENTS? (Codified Ordinance 909.19)

Owners of property abutting on any public street or highway within the City, shall at their expense, construct, pave, curb, repave and recurb the sidewalks and keep them in good repair along such property, in conformity with existing City ordinances. (Ord. 9-1945 §1.)

THE CITY OF YORK THE DEPARTMENT OF PUBLIC WORKS **101 SOUTH GEORGE STREET, PO BOX 509 YORK PA 17405**



*****ECRWSS***** **POSTAL CUSTOMER**

PUBLIC WORKS Update FALL/WINTER 2016 PROGRAMS

Environmental and Recreation & Parks

Honorable C. Kim Bracey, Mayor

YORK CITY RECREATION & PARKS BUREAU 101 South George Street, PO Box 509, York PA 17405 Office Hours: Monday – Friday, 8:00 am to 5:00 pm Phone: 717.854-1587 * Fax: 717.845.7457

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TRICK OR TREAT (YORK CITY)

Monday, October 31st - 6:00 to 8:00 pm

SPECIAL EVENTS

Contact: 849.2217

events@vorkcity.org Facebook (www.facebook.com/YorkCitySpecialEvents) or follow @YorkCityEvents on Twitter

York Bike Night - Friday, September 23rd, 6:00 to 10:00 pm Light Up Night - Friday, December 2nd, 5:00 to 9:00 pm Street closings for Light Up Night (4:30 to 9 pm): Market Street will be closed from Beaver to Duke Streets; George Street will be closed from King to Philadelphia Streets

New Year's Eve Celebration – December 31st

Children's Countdown, Central Market, 6 to 8 pm, and at midnight, watch the White Rose drop, followed by a fireworks display at Continental Square. Street closings for New Year's Eve (11 pm to 1 am) Market Street will be closed from Beaver to Duke Streets; George Street will be closed from King to Philadelphia Streets

PARK/SPECIAL EVENT PERMIT

As the winter approaches, parks may still be reserved. However, restrooms may not be available as we begin to winterize our restroom facilities. Prior to reserving a date that is later in the season (mid-October through March, weather permitting), please contact our office to ensure that the restrooms will be available. To reserve a park date for 2017, submit your online application beginning in January. All requests must be submitted thirty (30) days prior to the date of your scheduled event (www.yorkcity.org/york-city-event-permit). Fees will apply.

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WHEN WILL STREET SWEEPING END?

City wide street sweeping will end mid-November. The fine for parking in an area during designated street sweeping days is \$50.00. For questions about when a street is posted for no parking please call the Highway Bureau at 849.2320. (Some streets are swept year-round. To inquire about the exact locations, visit www.yorkcity.or of call 849.2320.)

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Public Works Dept, Environmental Bureau Office Hours: Monday – Friday, 8:00 am to 5:00 pm Phone: 717-849-2245 Fax: 717-845-7457

Every person living, working or visiting York City is required to recycle according to State law, Act 101 as well as the City's Ordinance 952, (resident and commercial, institutional). Designated recyclables include papers (office paper, tablet paper, envelopes, junk mail, magazines, phone books), cardboard, and chipboard (cereal, tissue and other product boxes; paper towel and toilet paper rolls), glass & metal food and beverage containers and plastic bottles/jars with #1-7 (neck must be smaller than bottom to qualify as bottle/jar). Butter tubs, dessert cups, and plastic bags are trash. Non-compliance may result in fines of up to \$600. Trash generated and collected in York City is disposed of at the York County Incinerator. For every ton that is recycled and diverted from the waste stream, there is a savings of \$59 in disposal fees.

KEEP YORK BEAUTIFUL and YORK CITY

CITYWIDE LITTER CLEANUP, Saturday, September 24th Volunteers will meet at 101 S George St (parking lot) between

7:30-8:00 AM. The cleanup will take place from 8 AM - 11 AM

YARD WASTE FACILITY (Memorial Stadium)

This site is open on the first Saturday of each month 10 AM - 2 PM, weather permitting. (Bring proof of residency) NO GRASS! Open: 10/1; 11/5; 12/3. Closed: January, February & March

UPCOMING HOLIDAY COLLECTION SCHEDULES

Thanksgiving Day – No collections on Thursday, 11/24 All collections (Thurs - Fri) will be delayed 1 day this week only Christmas Day – This holiday falls on Sunday. Collections are not affected and will occur as normally scheduled. **New Year's Day** – This holiday falls on Sunday. Collections are <u>not</u> <u>affected</u> and will occur as normally scheduled.

CITY OFFICES CLOSED FOR UPCOMING HOLIDAYS

Thurs 11/24 & Fri 11/25 Thanksgiving Holiday Fri 12/23 & Mon 12/26 Christmas Holiday Mon 1/2/17 New Year's Day Holiday Fri 4/14/17 Good Friday (Collections will occur as usual)

LARGE-ITEM COLLECTION 843-1240

York City Curbside Customers may call Mon-Thurs, 9:00 AM-3:30 PM to schedule up to 5 normal household furniture/appliance items. Some items are excluded from this service and must be handled privately. Items with dead or alive BEDBUGS (must!!) be bagged and sealed before scheduling. Large "mattress bags" are sold at U-HAUL.

SHARPS are needles/lancets used at home to inject medicine into people or pets. Properly dispose of "sharps" in small quantities: a) place sharps in a thick plastic laundry bottle; b) clearly mark bottle "SHARPS"; c) seal lid tightly; d) discard of container with trash in a securely tied trash bag and place for normal curbside collection.

MEDICATION, unless indicated otherwise on the package, may be disposed of in your regular household trash after removing it from the container and mixing it with something undesirable such as coffee grounds or kitty litter. Do not flush medication down the toilet.

TRASH PICK UP (Securely Tied Bags Help Prevent Litter) Place trash in plastic or metal cans with a lid and handles (best practice: all trash contained in a securely tied trash bag inside) or place trash in securely tied trash bags at the curb (Max: 32-gals; 40lbs; contents should never exceed over the top edge of the container).

DO NOT use for trash storage: Contractor bags, leaf bags, grocery bags, large "tote" cans or any trash cans over 32-gallons, plastic/metal drums, cardboard boxes, milk crates, storage totes and laundry baskets. Illegal containers may be disposed and refunds/replacements will NOT be given.

CONTAINERS, BAGS OR BUNDLES PLACED CURBSIDE: All normal curbside items placed for collection (trash, recycling, and yard waste) should not exceed:

32-gallons (contents should never extend beyond the top edge of any container)

40 pounds and 3' long

CONTAINERS & BAGS FOR SALE to individual residents for their specific York City dwelling. Quantities will not be sold to landlords or management companies.

Green Recycling Bin Yard Waste Cans Yard Waste Kraft Paper Bags





Reduced pricing is made possible, in part, due to a grant from the Department of Environmental Protection, in conjunction with York County Solid Waste and Refuse Authority. Yard Waste bags remain \$5.00 for each pack of 10 bags.

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ELECTRONICS EVENTS

Effective Jan 24, 2013 certain items may not be discarded in the normal trash: 1)TVs; 2) Computers; 3) Items that connect to computers (such as printers, modems, keyboards, etc). These must be taken by the resident to an Electronics event for proper handling.

The York County Solid Waste Authority opens their site to all York County residents every week (thru the end of 2016) on Tues, Wed & Thurs from 3-6:30 pm. For more information call YCSWA at 845-1066 or go to the YCSWA website at www.ycswa.com

FALL LEAF COLLECTION

Vacuuming of loose leaves from curbs depends on the weather and usually begins mid to late October and continues, weather permitting, into early December. In the case of a significant snow event, equipment would be changed over for the season to snow removal.

CURBSIDE YARD WASTE COLLECTIONS

Curbside collections of paper yard waste bags/yellow cans/bundles of yard waste and fall leaves continue, weather permitting, into mid December.

Final curbside collections of yard waste will be:

Monday, December 12th in the Monday Refuse District Tuesday, December 13th in the Tuesday Refuse District

CHRISTMAS TREE COLLECTION

City staff will remove discarded Christmas trees throughout the entire City during the first 2 weeks of January. These trees will be processed for mulch.

Because the trees are collected for mulching, they must be completely bare, as the day they were cut down. That means no tree bags, no lights or ornaments, no tree stands or the like.

All discarded Christmas trees that are out for collection after January <u>14th</u> will be collected (as regular trash) by the City's curbside hauler. Each tree will replace a bag of trash in the normal bag limits.

IMPORTANT STORMWASTER INFORMATION!

Sinks (cleaned/treated) Toilets (cleaned/treated) Showers (cleaned/treated) Washer (cleaned/treated)

Water INSIDE Buildings -VS- Water OUTSIDE Buildings: Rain/Snow/other precipitation Water from garden hose Water from pool/pond/buckets (Above does NOT get cleaned)

Like most cities, York's storm water is NOT treated or cleaned. Whatever goes into storm drains ends up in our Codorus Creek. The water on the outside of your home/business will pick up and carry bad things to the creek, such as soil, vegetation, animal wastes, litter/trash, oil/chemicals, street grit, etc. Please do your part to keep water going into drains and the creek clean.





Home + City Services + Departments + Public Works + Stormwater Management

Departments

Bureau of Health

Business Administration

Economic & Community Development

Fire Department

Police Department

Public Works

Sanitary Sewer Maintenance

Customer Service Satisfaction Survey

Human Relations Commission

York City Parking Bureau

Parking Ticket Payment

Parking Ticket Complaint Form

Right to Know

Park Reservation/Special Event Permit Application

Oversize Vehicle Permits

Sewer and Refuse Payments

Neighborhood Improvement Ordinance Ticket Payment

Stormwater Management

Report Illicit Discharge of Dumping into a Stormwater Inlet - Call (717)-324-6532

Innovative Stormwater Treatment in the Spotlight: RSC

A recent addition to the City's Stormwater System includes an innovative treatment method called Regenerative Step Conveyance (RSC). The RSC is a system/method of treating stormwater runoff to improve the quality of the runoff and reduce the destructive forces of fast flowing runoff. Two RSCs were installed along the East side of Tyler Run in the vicinity of Rose Alley and Hancock Alley. The design of the RSC allows stormwater flow entering the system to slow down and percolate into the ground. The RSC is a series of "steps" and "pools" that permit the water quality improvement process to take place. This project was funded as part of the Pennsylvania Growing Greener grants initiative. Stop on out and take a look as what the City is doing to improve water quality in our community. (4/21/14)

Stormwater & The Chesapeake Bay



buy mogram on vinco.

Learn More About Local Water Conservation Organizations

- York County Coalition for Clean Waters YCC4CW
- Watershed Alliance of York
- York County Conservation District
- Lower Susquehanna Riverkeeper
- Codorus Creek Watershed Association

Documents/Education Materials

- City Council MS4 Stormwater Presentation
- CBF.10ThingsToSaveTheBay
- DEP.Stormwater.FactSheet
- EPA.AfterTheStorm.english
- EPA.AfterTheStorm.spanish
- EPA.UrbanRunoff
- City of York MS4 Annual Report 2015-16
- City of York MS4 Annual Report 2014-15

Social Media and other sites

FACEBOOK

Center for Watershed Protection

Chesapeake Bay Program

Pennsylvania Department of Environmental Protection

Stormwater PA MS4 Program

US Environmental Protection Agency

York County Conservation District

York County Planning Commission







Playlists

Settings














Get Latest News

Get the latest news and tips from SpinetiX.









Playlists

Media





Active Program

curently displayed by the device.

Slide Dog Waste



Tip More Programs



Use the Programs menu to create additional Programs. Each Program can be activated to be displayed on the screen.

Get Latest News

Get the latest news and tips from SpinetiX.

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PUBLIC WORKS

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STORMWATER MANAGEMENT IN PENNSYLVANIA

WHAT IS STORMWATER MANAGEMENT?

Stormwate: management involves the control of water that runs off the surface of the land from rain or melting toe or show The volume, or amount of runoff and its | ordinances to manage runoff

rate of runott subst development occurs surfaces, such as roots invest mote to notellatent and discharge runoff, pr into the soil Managama compensate for the pos such as frequent flood problems, concentration damages to roads, brid well as non-point sop impervicus sudaces

HISTORY OF PENNSYLVANIA

Court decisions over common law duties an involved with obstruct and discharging of runo

Pennsylvania cities, bo have been authorized Municipalities Planning

IRO

VTAL BUREAU

iTrabajando

management plans for designated watersheds. This planning effort results in the incorporation of sound engineering standards and criteria into local codes and ordinances to manage runoff from new development in a

IRONMENTAL BUREAU

TE

M COLLECTION











extension.psu.edu

Cooperative Extension

College of April placed Accessory

Hellam Township EMA Office Jackson Township EMA Office Manchester Township FMA Office Manheim Township EMA Office North Codorus Township EMA Office Springfield Township EMA Office Spring Garden Township EMA Office Springettsbury Township EMA Office West Manchester Township EMA Office York Township EMA Office

44 Walnut Springs Road, York, PA 439 Roths Church Road, Spring Grove, PA 3200 Farmtrail Road, York, PA 5191 Wool Mill Road, Glenville, PA 1986 Stoverstown Road, Spring Grove, PA 9211 Susquehanna Trail S, Seven Valleyr, PA 558 Ogontz Street, York, PA 1501 Mt. Zion Road, York, PA 380 East Berlin Rosd, York, PA 190 Oak Road, Dallastown, PA

This NOTICE is posted per Department of Environmental Protection's Chapter 105 Dam Safety and Waterway Management §105.134(c). 28

WHEN IS A BUILDING PERMIT REQUIRED? An owner or authorized agent who intends to construct, enlarge, after repair, move, demotish or change the occupancy of a commetrial of residential building, building, and facility or to erect, install, enlarge the occupancy of a commercial or residential building, structure and facility or to erect, install, enlarge, after, repair, remove, convert or replace any electrical and electrical or electronic or electronic providence and the electronic or electronic The occupancy of a commercial or residential building, structure and facility or to erect, install, enarge, after repair remove, convert or replace any electrical gas, mechanical, or plumbing system regulated by the Uniform Construction Code shall first apply to the building official and obtain the required permit. The Uniform Construction Code currently has adopted by 2000 temps of the international Code Council (The Uniform Construction Code shall first apply to the building official and obtain the required permit building codes.) Emergency repairs or replacement of equipment may be made without first applying for a permit if a permit application is submitted to the building of the made without first applying for a permit if a permit application is submitted to the building code official within 3 business days of the repair of technologics In addition to the required permits under the Uniform Construction Code, the City of York also requires permits to be obtained for the following: Concrete sidewalks, curbs, driveways, ramps and handscap ramps. (City of York Codified Ordinance, Article 909) permits to be obtained for the following: Temporary placement of a dumpster in a public way. (City of York Codified Ordinance Article 541) Demolition work (ICC 2009 - Charter 33.) (Because Object Net Demolition Apreement & Demolition work (ICC 2009 – Chapter 33.) (Requires City of York Demolition Agreement & building permit) Signs - installation or placement of permanent signs. (Requires Zoning approval & building permit. City of York Codified Ordination Contraction of the second permit City of York Codified Ordinance Section 1300.04) Swimming pools, whether prefabricated or not, which are greater than 18 inches deep, including Spas, or Whidpools, (City of York Confident Octoored Autobrand 111) Spas, or Whirlpools. (City of York Codified Ordinance Article 1302 111) Amusement Machines Street excavations – Obtained from the Public Works Department (City of York Codified Ordinance Article 905 2) If you live in the HARB District and are proposing to do any exterior work other than painting or work that is not visible from a public street or allow you will also have to have HARB approval.

work that is not visible from a public street or alley, you will also have to have HARB approval <u>EVEN IF A PERMIT IS NOT REQUIRED.</u> UNLESS LISTED BELOW, A PERMIT IS REQUIRED FOR YOUR

ATTENTION

IN ORDER TO SCHEDULE AN INSPECTION YOU MUST HA REQUIRED UTILITIES CONNECTED AND OPERATING A TIME OF INSPECTION. IF UTILITIES ARE NOT CONNECTE OPERATING THE INSPECTION WILL BE HALTED AND YOU BE REQUIRED TO PAY THE APPROPRIATE RE-INSPECTIC TO RE-SCHEDULE YOUR INSPECTION. ALSO FOR CERTIF OCCUPANCY INSPECTIONS ALL REQUIRED OF INSPECTIONS MUST HAVE BEEN COMPLETED.

A PERMIT IS NOT REQUIRED FOR THE FOLLOWING: An ordinary repair does not require a permit.

The following are not ordinary repairs: (3) The removal or cutting of any structural beam or load-bearing support
 (3) The removal or change of any required means of egress, or rearrangement of parts of a structure attention the means of egress. (1) Cutting away a wall, partition or portion of a wall structure affecting the egress requirements.

LISHERIFF.

REQUIRED UTILITIES ARE: ELECTRIC, GAS AND HOT AND RUNNING WATER.

10 Steps to Stormwater Pollution Prevention on Small Residential Construction Sites

Stormwater management on small residential construction sites need not be complicated

O Protect Any Areas Reserved for Vegetation or Infibration and Preserve Existing Trees If you will be contailing infibration based instances such as rain gathere or increased.

makes trace these amout any designeeted as sell kingles to workid comportants. law can and meany in preserving stating matter tree daying construction Proverying manage over manimizes the amount of and that apply in he suchilard. story construction in equipher and eccuming the amount of closed during and after International articular

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O Install Inter Controls indenent mantal tags, gravel harmon, and and or men hagt are optant for vitermos indet contrain that is recepted to end and an interest at the state tached halfway up the plants.

O Install a Concrete/Discuss Westernt Basis Insugnose 4 look proof herein lined with plants for washing out used courses and observe concerners. Server wash names process of concerned services ferma a minera delaite at teste à ellevant!

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Management and passed starts have believes starting your one by major storing its and and made of provided out operations' generation inform. If endineers that have recent, someone approach solutions by the end of the story work day.

Pint Your NCI and Keep at Up-to-Date Copy of Your DMPPP on Site Pros a sign of other antity of your permit coverage. including your hirthy tracking million and parvisually information. After, here a togo of your company and optimizer 200707 on the and south surrouble, recharging the maps showing where wait that is a well in concelled

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City of York

Stormwater Management Small Projects Guide



SMALL GAMES OF CHANCE -YORK COUNTY TREA	717-771-9603
BETTER BUSINESS BUREAU	717-364-3250
DOG LICENSE	717-771 0002
PENN DOT	717 949 6330
DEATH CERTIFICATE	717 707 717
YORK ADAMS TAX BUREAU	717-787-2121
HEALTH LICENSE-OUT OF CITY	1 977 774 9084
APPLICATION TO SELL PRECIOUS METALS DEPT)	717 771 9601
RECORDER OF DEEDS	717-771-9295
E.P.A	1-800-438-24
MARRIAGE LICENSE	717-771-961
HANDICAP PARKING	717-849-230
STATE POLICE	717-428-101
BUREAU OF CONSUMER PROTECTION	717-787-710





MS 4 RELATED (4.1.2016 - 3.31.2017) EDUCATIONAL HANDOUTS AT CITY HALL BROCHURE DISPLAY

DATE	<u>WHO</u>	DOCUMENT (A)	<u>COUNT</u>	<u>BAL</u>	<u>USED</u>	ADDED	NEW BAL
4/5/2016	C.DENNIS	PROTECTING WATER QUALITY FROM URBAN RUNOFF	12	9	3	3	12
6/2/2016	C.DENNIS	PROTECTING WATER QUALITY FROM URBAN RUNOFF	12	6	6	6	12
7/5/2016	C.DENNIS	PROTECTING WATER QUALITY FROM URBAN RUNOFF	12	9	3	3	12
8/1/2016	C.DENNIS	PROTECTING WATER QUALITY FROM URBAN RUNOFF	12	11	1	1	12
9/13/2016	C.DENNIS	PROTECTING WATER QUALITY FROM URBAN RUNOFF	12	9	3	3	12
10/3/2016	C.DENNIS	PROTECTING WATER QUALITY FROM URBAN RUNOFF	12	9	3	3	12
11/3/2016	C.DENNIS	PROTECTING WATER QUALITY FROM URBAN RUNOFF	12	6	6	6	12
12/1/2016	C.DENNIS	PROTECTING WATER QUALITY FROM URBAN RUNOFF	12	10	2	2	12
12/16/2016	L. Brown	PROTECTING WATER QUALITY FROM URBAN RUNOFF	12	12	0	0	12
1/3/2017	L. Brown	PROTECTING WATER QUALITY FROM URBAN RUNOFF	12	12	0	0	12
2/2/2017	L. Brown	10 THINGS YOU CAN DO TO SAVE THE BAY	12	12	0	0	12
3/1/2017	L. Brown	10 THINGS YOU CAN DO TO SAVE THE BAY	12	8	4	4	12
					31		

DATE	<u>WHO</u>	DOCUMENT (B)	<u>COUNT</u>	BAL	<u>USED</u>	ADDED	NEW BAL
4/5/2016	C.DENNIS	MATCH BENEFITS OF WETLANDS (KIDS PAGE)	12	9	3	3	12
6/2/2016	C.DENNIS	MATCH BENEFITS OF WETLANDS (KIDS PAGE)	12	6	6	6	12
7/5/2016	C.DENNIS	MATCH BENEFITS OF WETLANDS (KIDS PAGE)	12	9	3	3	12
8/1/2016	C.DENNIS	MATCH BENEFITS OF WETLANDS (KIDS PAGE)	12	11	1	1	12
9/13/2016	C.DENNIS	MATCH BENEFITS OF WETLANDS (KIDS PAGE)	12	9	3	3	12
10/3/2016	C.DENNIS	MATCH BENEFITS OF WETLANDS (KIDS PAGE)	12	11	1	1	12
11/3/2016	C.DENNIS	MATCH BENEFITS OF WETLANDS (KIDS PAGE)	12	1	11	11	12
12/1/2016	C.DENNIS	MATCH BENEFITS OF WETLANDS (KIDS PAGE)	12	12	0	0	12
12/16/2016	L. Brown	MATCH BENEFITS OF WETLANDS (KIDS PAGE)	12	12	0	0	12
1/3/2017	L. Brown	MATCH BENEFITS OF WETLANDS (KIDS PAGE)	12	12	0	0	12
2/2/2017	L. Brown	STORMWATER RUNOFF CHALLENGE (PUZZLE)	12	12	0	0	12
1/3/2017	L. Brown	STORMWATER RUNOFF CHALLENGE (PUZZLE)	12	0	12	12	12
					40		

MS 4 RELATED

EDUCATIONAL HANDOUTS AT CITY HALL BROCHURE DISPLAY

DATE	<u>WHO</u>	DOCUMENT (C)	COUNT	BAL	<u>USED</u>	ADDED	NEW BAL
4/5/2016	C.DENNIS	WATER CONSERVATION IDEAS/PROTECT WATERSHEDS	12	9	3	3	12
6/2/2016	C.DENNIS	WATER CONSERVATION IDEAS/PROTECT WATERSHEDS	12	6	6	6	12
7/5/2016	C.DENNIS	WATER CONSERVATION IDEAS/PROTECT WATERSHEDS	12	8	4	4	12
8/1/2016	C.DENNIS	WATER CONSERVATION IDEAS/PROTECT WATERSHEDS	12	11	1	1	12
9/13/2016	C.DENNIS	WATER CONSERVATION IDEAS/PROTECT WATERSHEDS	12	11	1	1	12
10/3/2016	C.DENNIS	WATER CONSERVATION IDEAS/PROTECT WATERSHEDS	12	11	1	1	12
11/3/2016	C.DENNIS	WATER CONSERVATION IDEAS/PROTECT WATERSHEDS	12	6	6	6	12
12/1/2016	C.DENNIS	WATER CONSERVATION IDEAS/PROTECT WATERSHEDS	12	10	2	2	12
12/16/2016	L. Brown	WATER CONSERVATION IDEAS/PROTECT WATERSHEDS	12	12	0	0	12
1/3/2017	L. Brown	WATER CONSERVATION IDEAS/PROTECT WATERSHEDS	12	12	0	0	12
2/2/2017	L. Brown	DEP FACT SHEET	12	12	0	0	12
3/1/2017	L. Brown	DEP FACT SHEET	12	7	5	5	12
					29		

DATE	<u>WHO</u>	DOCUMENT (D)	<u>COUNT</u>	BAL	<u>USED</u>	ADDED	NEW BAL
4/5/2016	C.DENNIS	GET THE MOST OUT OF RAIN	12	8	4	4	12
6/2/2016	C.DENNIS	GET THE MOST OUT OF RAIN	12	2	10	10	12
7/5/2016	C.DENNIS	GET THE MOST OUT OF RAIN	12	11	1	1	12
8/1/2016	C.DENNIS	GET THE MOST OUT OF RAIN	12	10	2	2	12
9/13/2016	C.DENNIS	GET THE MOST OUT OF RAIN	12	6	6	6	12
10/3/2016	C.DENNIS	GET THE MOST OUT OF RAIN	12	11	1	1	12
11/3/2016	C.DENNIS	GET THE MOST OUT OF RAIN	12	6	6	6	12
12/1/2016	C.DENNIS	GET THE MOST OUT OF RAIN	12	12	0	0	12
12/16/2016	L. Brown	GET THE MOST OUT OF RAIN	12	11	1	1	12
1/3/2017	L. Brown	GET THE MOST OUT OF RAIN	12	12	0	0	12
2/2/2017	L. Brown	WHEN IT RAINS, IT DRAINS	12	12	0	0	12
3/1/2017	L. Brown	WHEN IT RAINS, IT DRAINS	12	7	5	5	12
					36		

STORMWATER runoff is precipitation

from rain or snowmelt that flows over the ground. As it flows, it may pick up debris, chemicals, dirt,

and other pollutants and deposits them into a storm sewer system or waterbody. Anything that enters a storm sewer system empties **untreated** into waterbodies that are used for swimming, fishing, and to provide drinking water.



Remember: Only Rain Down the Drain

Keep stormwater around your home or workplace clean by following these simple guidelines:

- Use pesticides and fertilizers sparingly.
- Repair auto leaks.
- Dispose of household hazardous waste, used auto fluids (antifreeze, oil, etc.), and batteries at designated collection or recycling locations.
- Clean up after your pet.
- Use a commercial car wash or wash your car on a lawn or other unpaved surface.
- Sweep up yard debris rather than hosing down areas. Compost or recycle yard waste.
- Clean paint brushes in a sink, not outdoors. Properly dispose of excess paint and paint products by sealing containers tightly and discarding in bags with household trash.
- Sweep up and properly dispose of construction debris like concrete and mortar.



The City of York Pennsylvania Public Works Department

Public Works Department 101 S George Street, York PA 717-849-2245 www.yorkcity.org

Mayor C. Kim Bracey

ILLICIT DISCHARGES are

anything other than stormwater flowing into storm drains. Examples include: Grass clippings, paint, excess fertilizers, pet wastes, grease, toxins, vehicle fluids, excess dirt, etc. **NEVER** discard any of these into a storm drain, because stormwater does not get treated.



If you see anyone dumping wastes into storm drains, call York City, Public Works Department at 717-849-2245 or Lettice Brown, York City's MS4 Coordinator at 717-324-6532.





Door Hangers Distribution

January 30th 2017

900 block of E. Boundary Avenue900 block of Richwill Road

February 1 2017

250-298 W. Jackson Street

251-299 W. Jackson Street

700 block of June Street (fireside neighborhood)

March 23 2017

210-216 Peyton Road

100 block of Peyton Road

100 block of Irving Road

March 30 2017

900 block Hay Street

700 block Wallace St

Stormwater Discharges in York City

Definitions:

<u>MS4</u> – Municipal Separate Storm Sewer System – Means our Storm System and Sewer Systems are SEPARATE. Sewer water gets cleaned, Storm water DOES NOT and flows directly into the Codorus Creek or surrounding creeks.

<u>Illicit Discharge</u> – any discharge to a MS4 that is **not** composed entirely of storm water, except for allowable discharges pursuant to National Pollutant Discharge Elimination System (NPDES). (i.e. water from fire fighting activities)

ALLOWABLE DISCHARGES UNDER NPDES:

- uncontaminated stormwater and non-stormwater discharges that are approved by NPDES
 - Discharges from firefighting activities
 - Irrigation water
 - Diverted stream flows
 - Air conditioning condensation
 - Springs
 - Water from watering your lawn
 - Individual residential car washing
 - De chlorinated swimming pool discharges

UNAUTHORIZED DISCHARGES UNDER NPDES:

• Discharges that are mixed with sources of non-stormwater unless that discharge is in compliance with the NPDES permit

Household Hazardous Waste

What is Household Hazardous Waste (HHW)?

According to the Pennsylvania Department of Environmental Protection, Household Hazardous Wastes (HHW) are those wastes produced in our households that are hazardous in nature, but are not regulated as hazardous waste, under federal and state laws. Each person in Pennsylvania produces an average of four pounds of HHW each year or about 25,000 tons/yr. statewide. HHW, if carelessly managed, can and frequently does, create environmental and public health hazards.

How to Identify HHW:

Generally, HHW materials belong to one of the following hazardous waste categories: <u>Corrosives</u> have an extremely low or high pH and can burn skin and mucous

membranes. Examples include drain cleaners, rust removers and oven cleaners.

<u>Flammables</u> are easily set on fire or readily combustible. Examples are gasoline, kerosene, fuel oil, butane, oil-based paints and paint thinners.

<u>Oxidizers</u> are chemicals that react strongly with other compounds and may cause fires or explosions. Examples include chlorinated pool chemicals, household bleach and hydrogen peroxide.

<u>Toxic</u> materials are poisonous and/or carcinogenic to humans and/or wildlife. Examples are pesticides, solvents, and cleaning agents.

<u>Air Quality Hazardous</u> materials can cause excessive emissions or toxic ash problems at resource recovery facilities. Examples include thermostats, smoke detectors and nickel, cadmium, lithium or lead batteries.

<u>Unknowns</u> are unidentified materials, such as those that contain no label or ingredient information. Unknown materials should be treated as though they belong to one of the above categories until proven otherwise.

Why is Household Hazardous Waste a Potential Problem?

- Improper storage or use of hazardous products in the home can increase the risk of accidental poisoning or injury.
- Disposal of household hazardous wastes in regular garbage could injure sanitation workers. Some products are chemically incompatible, and may lead to fires in dumpsters or garbage trucks.
- Pouring waste down the drain puts it directly into septic tanks or sewage treatment plants that may not be able to filter out or properly treat hazardous materials. This can lead to the contamination of groundwater or surface waters where treatment plants discharge.

What Can You Do About Household Hazardous Waste?

• The best way to manage HHW is to **avoid creating it**. Select the least toxic product to do the job and buy only as much as you need. Learn more about alternatives for household hazardous products here: www.epa.gov/saferchoice

- Store hazardous products in their original containers.
- If the product is still usable, donate it to a community group.
- As a York County resident, you can bring your HHW to the York County Solid Waste Authority's annual Household Hazardous Waste Collection Program or use the "At Your Door Special Collection" Program.

York County Solid Waste Authority's FREE Annual Household Hazardous Waste Collection Program:

The Authority's annual HHW Waste Collection Program is conducted every May on the first Saturday of the month from 9:00 AM to 1:00 PM. There is no fee for York County residents to participate. Businesses and government entities are not eligible to participate. This event in 2017 will be conducted at 915 Woodland View Drive, York, PA 17406, NOT at the Authority's Yard Waste Transfer Site off of Flour Mill Road, as in prior years. Residents can safely manage HHW by bringing it to this free household hazardous waste collection program.

Accepted items include: thermometers containing mercury; liquid mercury; smoke detectors; auto fluids such as transmission fluid, brake fluids and antifreeze; car batteries; rechargeable batteries such as Nickel Cadmium (Ni-Cd), Nickel Metal Hydride (Ni-MH), Lithium Ion (Liion), and Small Sealed Lead (Pb); driveway sealant; compact fluorescent light bulbs and fluorescent lamps; gasoline, kerosene, diesel fuel and butane; herbicides and pesticides; household cleaners; chemistry kits; photographic chemicals and pool chemicals. Unacceptable items: explosives; propane tanks; ammunition; radioactive waste; alkaline batteries (may be disposed of in your regular garbage) and latex or oil-based paint (may be disposed of in your regular garbage, click here for preparation instructions)

Paint

How to Manage Paint:

Paint and paint-related products can be safely processed at the York County Resource Recovery Center. Liquid paint and paint products pose potential impacts to the environment and to the safety of your waste hauler's employees. To minimize potential impacts, many haulers prefer that paint and paint products be dried, hardened using paint hardeners purchased at hardware/home improvement stores or mixed with an absorbent material such as shredded paper or kitty litter. Also be sure to secure lids tightly and place in a closed garbage bag. For your waste hauler's specific guidelines regarding disposal of these products, please contact them directly.

Paint from manufacturing operations may be residual or hazardous waste as defined by the state and may require special approvals to process. Contact the Authority at 717-845-1066 for more information about how to manage residual waste.

- Stormwater discharges from industrial activity that leads to contamination
- Stormwater discharges from construction activity that leads to contamination
- Stormwater discharges from food services activity that leads to contamination
- Discharges that contain hazardous pollutants or toxins
- Discharges that are not, or shall not be, in compliance with the terms and conditions of the general permit
- ✓ FOOD WASTES SHOULD BE DISCHARGED TO THE SANITARY SEWER SYSTEM OR TAKEN TO AN AUTHORIZED FACILITY FOR ELIMINATION.
- Springettsbury Wastewater Treatment Facility will accept your food waste water. Please contact them at (717) 757-3521



PET WASTE

Scoop the Poop. Bag it, trash it.

Clean water is important to all of us. It's up to all of us to make it happen. In recent years sources of water pollution like industrial wastes from factories have been greatly reduced. Now, most water pollution comes from things like cars leaking oil, fertilizers from farms and gardens, and failing septic tanks. All these sources add up to a big pollution problem. But each of us can do small things to help clean up our water too. And that adds up to a POLLUTION SOLUTION!

Why do we need clean water?

Dog poop is more than just an icky nuisance. It's a health risk to dogs and people, especially children. It's full of bacteria that can make people sick. And it's a source of water pollution. When it rains, dog poop melts away and runoff carries it to storm drains, ditches and streams that feed our rivers, lakes and the Chesapeake Bay.

Bacteria from dog poop can end up in fish and shellfish. People who eat those species can get very sick. The bacteria can also make water unsafe to drink or to swim in. Nutrients from dog poop can also feed the growth of aquatic plants and algae. As these decay, they use up oxygen in the water that fish and other aquatic life need.

Dog poop doesn't have to be a problem.

What will you do to help?

- Carry plastic bags when taking your pet for a walk or a romp in the park.
- Pick up your dog's waste. Use a plastic bag, scoop or disposable gloves. Remember to wash your hands afterward.
- Seal the waste inside a plastic bag (or two) and throw it in the garbage.
- Processo dispersional or decipação suba history vour Maño pere hasinay
 Maño pere hasinay
- Keep dog poop out of septic systems and sewer systems. These systems are designed for human waste only.
- Pick up after your dog in your yard every few days— more often if you have small children who play there.



When your dog goes on the lawn, remember it doesn't just go on the lawn.

YARD CARE

Treat with care; Right dose at the right time.

Clean water is important to all of us. It's up to all of us to make it happen. In recent years, sources of water pollution, like industrial wastes from factories, have been greatly reduced. Now, most water pollution comes from things like cars leaking oil; fertilizers from farms, lawns and gardens; and failing septic tanks. All these sources add up to a big pollution problem. But each of us can do small things to help clean up our water too. And that adds up to a POLLUTION SOLUTION!

Why do we need clean water?

Having clean water is of primary importance for our health and economy. Clean water provides recreation and commercial opportunities, fish habitat and drinking water. It also adds beauty to our landscape. All of us benefit from clean water and all of us have a role in getting and keeping our lakes, rivers, and ground waters clean.

What's the problem with fertilizing your lawn?

Many people use fertilizers, weed killers and pesticides to enhance their yards and gardens. But If you use too much of these products or apply them at the wrong time, stormwater runoff can easily carry them from your lawn or garden into storm drains and ditches. From there, they can end up in lakes and streams.

Weed killers and pesticides are designed to kill plants and animals that are considered pests. However, when they get into our waters, they can kill plants and animals that are not a problem. Fish and amphibians are vulnerable to these chemicals.

Like in the garden, fertilizer in lakes and streams makes plants grow. But too much algae and other aquatic plant growth can make boating, fishing and swimming unpleasant. What's more, as the algae and other plants decay, they use up the oxygen in the water that fish and other aquatic life need. Lawn and garden care doesn't have to be a problem.

What will you do to help?

- Read the label. Follow the instructions.
- Use fertilizer sparingly. Many plants don't need as much as you might think. Too much can even harm them. Also, roots, leaves and fruits need different nutrients. Test your soil to find the right dose and type to match your plants' needs.
- Use Phosphorus free fertilizer.
- Don't treat your lawn or garden right before a rainstorm.
- Use slow-release fertilizers and other more environmentally friendly products.
- Try non-chemical alternatives. Use compost. Plant companion plants that deter pests. Pull weeds by hand. Use mulch. Trade lawn for native groundcover or shrubs.
- Get expert advice about lawn and garden products from Master Gardeners at <u>http://extension.psu.edu/plants/master-gardener/counties/york</u>

The middle number is the Phosphorus content. Look for "O"!



When you treat the lawn, remember you're not just treating the lawn.

CAR WASHING

Don't feed soap to the storm drain. Wash your car right. Keep your waters clean.

Clean water is important to all of us. It's up to all of us to make it happen. In recent years sources of water pollution like industrial wastes from factories have been greatly reduced. Now, most water pollution comes from things like cars leaking oil, fertilizers from farms and gardens, and failing septic tanks. All these sources add up to a big pollution problem. But each of us can do small things to help clean up our water too. And that adds up to a POLLUTION SOLUTION!

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What's the problem with car washing?

There's no problem with washing your car. It's just how and where you do it. Most soap contains phosphates and other chemicals that harm fish and water quality.

If you live in the city and you wash your car in the driveway, the soap, together with the dirt and oil washed from your car, flows into nearby storm drains which run directly into lakes and rivers. The phosphates from the soap can cause excess algae to grow. Algae look bad, smell bad, and harm water quality. As algae decay, the process uses up oxygen in the water that fish need.

How will we change our ways?

The state recommends that cities and counties help educate people in urban areas about sensible ways to wash their cars and still keep soapy water from washing into storm drains. You can, indeed, wash your car and you can also keep our waters clean!

What will you do to help?

- Use a commercial car wash, either self-serve or machine wash.
- Wash on lawns or other surfaces where water can seep into the ground.
- Divert water away from storm drain.

Charity Car Washes~

- Sell commercial car wash coupons instead.
- Borrow a pump kit to send the soapy runoff to a sanitary sewer.
- Locate the car wash to divert wash water away from storm drains.
- Rent a "Bay for a Day" at a self-serve car wash that is hooked up to sanitary sewer.

When you're washing your car in the driveway, remember you're not just washing your car in the driveway.



Commonwealth of Pennsylvania

Department of Environmental Protection

STORMWATER MANAGEMENT IN PENNSYLVANIA

WHAT IS STORMWATER MANAGEMENT?

Stormwater management involves the control of water that runs off the surface of the land from rain or melting ice or snow. The volume, or amount of runoff and its rate of runoff, substantially increase as land development occurs. Construction of impervious surfaces, such as roofs and parking lots, and the installation of storm sewer pipes which efficiently collect and discharge runoff, prevent the infiltration of rainfall into the soil. Management of stormwater is necessary to compensate for the possible impacts of development such as frequent flooding, erosion and sedimentation problems, concentration of flow on adjacent properties, damages to roads, bridges and other infrastructure as well as non-point source pollution washed off from impervious surfaces.

HISTORY OF DRAINAGE CONTROLS IN PENNSYLVANIA

Court decisions over the years have placed various common law duties and responsibilities on landowners involved with obstructing water courses and collecting and discharging of runoff onto adjacent lands.

Pennsylvania cities, boroughs, townships and counties have been authorized by state statute (Pennsylvania Municipalities Planning Code, Act 247 as amended) to comprehensive plans for prepare community development, zoning ordinances and subdivision and land development ordinances and regulations that may include provisions for drainage and stormwater management. However, governments are not required to adopt these plans containing development controls. Further, there is no obligation for local governments having stormwater management regulations to consider the effects of runoff beyond their boundaries. Often, municipalities within a watershed may require different levels of control that result in increased flooding problems.

PENNSYLVANIA'S STORMWATER MANAGEMENT PROGRAM

The Pennsylvania legislature enacted the Storm Water Management Act (No.167) in 1978 to authorize a program of comprehensive watershed stormwater management which retains local implementation and enforcement of stormwater ordinances similar to local responsibility of administration of subdivision and land development regulations. Under the Act, the Department of Environmental Protection (DEP) provides grant money to counties to develop stormwater management plans for designated watersheds. This planning effort results in the incorporation of sound engineering standards and criteria into local codes and ordinances to manage runoff from new development in a coordinated, watershed-wide approach.

HOW THE STORMWATER PROGRAM WORKS

Counties develop stormwater plans for each of their watersheds within their boundaries. DEP develops grant agreements with counties to pay for 75 percent of the cost to prepare the plans. Upon completion of a plan by a county and approval by DEP, municipalities located in the watershed adopt ordinances consistent with the plan. Developers are then required to follow the local drainage regulations that incorporate the standards of the watershed plan when preparing their land development plan. Although not all watersheds have been studied, developers in non-studied areas are still required to follow any local drainage regulations adopted under the Municipalities Planning Code.

GUIDE TO THOSE AFFECTED BY RUNOFF

Individuals and property owners affected by runoff due to development need to know who is responsible for management of stormwater runoff in their particular situation. The following guide can assist in making that determination.

Municipalities: Historically, municipalities have been responsible for enacting ordinances to regulate stormwater as they review subdivision and land development plans (Pennsylvania Municipalities Planning Code).

Developers: Developers are required to follow local drainage regulations. In watersheds having a completed Act 167 plan, developers, by following local ordinances, would be following the standards and criteria of the approved watershed plan.

Department of Environmental Protection: DEP is responsible for management of the stormwater planning program but has no regulatory authority for individual activities. Section 10 and 12 of the act provide DEP with authority to compel county planning and municipal implementation in studied watersheds. DEP also provides technical guidance and training to counties, municipalities and individuals.

County Conservation Districts: The Districts investigate runoff complaints resulting from earthmoving activities. Stormwater may be controlled during construction activities through temporary erosion and

sedimentation control devices such as sedimentation basins. Upon stabilization of work sites, temporary erosion and sedimentation structures are often converted to permanent stormwater facilities under the jurisdiction of municipalities.

SUGGESTIONS IN RESOLVING STORMWATER PROBLEMS

- Document problems by taking photographs and videos and making sketches of site conditions.
- Try to determine the source of stormwater runoff. Is there new development upstream/uphill from your location? Are there nearby road improvements, such as widening or drainage pipes installed?
- Is the runoff originating from an active construction site where earthmoving activities are occurring or is there sediment or mud leaving the site? If so, the County Conservation District may assist with any erosion and sedimentation control problems.
- In the case of runoff originating from recent development, contact the municipality where the development is located.
- Seek legal counsel if the problem has not been resolved after seeking assistance from all involved parties or agencies.

LOANS AVAILABLE FOR UNDERTAKING STORMWATER PROJECTS

Governmental agencies are eligible to obtain low interest loans from the Pennsylvania Infrastructure Investment Authority (PENNVEST) to resolve drainage problems.

Loans are available for the construction, improvement or rehabilitation of stormwater systems and installation of best management practices to address point or nonpoint source pollution associated with stormwater. Examples of stormwater projects eligible for funding include:

- New or updated storm sewer systems to eliminate stormwater flooding or to separate stormwater from sanitary sewer systems;
- Detention basins to control stormwater runoff; and/or

• Stormwater facilities to implement best management practices to reduce nonpoint source pollution.

The loan program is administered by PENNVEST staff with technical services from DEP. DEP engineers provide technical guidance to loan applicants. The scope of their guidance includes:

- Conducting planning consultation meetings with loan applicants and their engineers;
- Reviewing project plans and specifications;
- Rating the projects under established criteria;
- Recommending projects for funding;
- Participating in and representing PENNVEST at preconstruction conferences;
- Conducting interim and final construction inspections; and
- Assisting PENNVEST in conducting educational programs.

AVAILABLE INFORMATION FROM DEP

- The Storm Water Management Act (No. 167) of 1978.
- Storm Water Management Guidelines and Model Ordinances.
- Chapter 111. Storm Water Management Grants and Reimbursement.
- PENNVEST regulations and application form

To obtain publications, contact the

Pa. Department of Environmental Protection Bureau of Watershed Management Division of Water Use Planning Rachel Carson State Office Building P.O. Box 8555, Harrisburg, PA 17105-8555 717-772-4048 FAX 717-787-9549

This fact sheet and related environmental information are available electronically via Internet. For more information, visit us through the PA PowerPort at http://www.state.pa.us or visit DEP directly at http://www.dep.state.pa.us (directLINK "Stormwater").



www.GreenWorks.tv - A web space dedicated to helping you learn how to protect and improve the environment. The site features the largest collection of environmental videos available on the Internet and is produced by the nonprofit Environmental Fund for Pennsylvania, with financial support from the Pennsylvania Department of Environmental Protection, 877-PA-GREEN.







There has been an increase in trash around your neighborhood and The City of York is asking that everyone help in keeping your block clean and free of trash and debris. Trash not only looks bad but it gets picked up by stormwater and carried into storm drains when it rains then flows into our creeks and streams. Here's what you can do:

- 1. Sweep up trash, litter, and debris and properly store them in trash or recycle bins
- 2. Pick up and discard of any litter you find in your travels
- 3. **Ensure** your trash and recyclables are secure within the receptacles. If it is windy out, please properly secure the items in the bins so they do not blow around.
- 4. <u>Take pride</u> in your community and encourage others to do the same. If you want to live in a nice, clean area, it starts with you!

Everyone wants their community to be clean and inviting and with a few simple steps, it can!



Lettice Brown MS4 Coordinator Stormwater Management Program York City Department of Public Works 1625 Toronita Street York PA 17402 Cell: (717) 324-6532

Email: lbrown@yorkcity.org Facebook: "York City Stormwater"



Take the Stormwater Runoff Challenge

19

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11

18

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Across:

- The area of land that drains into an estuary, lake, stream, or groundwater is known as a
- 4) The _____ of speeding boats can erode shorelines.
- 5) Maintaining your _____ tank will help to prevent bacteria and nutrients from leaking into groundwater and surface waters.
- Wetland plants act like a natural water _____, removing harmful pollutants from stormwater runoff.
- Leave your grass clippings on your ______to reduce the need for commercial fertilizers.
- 9) A single quart of motor _____, if disposed of improperly, can pollute 2 million gallons of water.
- Fertilizers and animal wastes contain ______that "feed" algae and other aquatic plants harmful to water quality.
- 12) Polluted runoff from both rural and ______ sources has a significant impact on water quality.
- 16) Storm _____ don't always connect to sewage treatment plants, so runoff can flow directly to rivers, lakes, and coastal waters.
- 18) Follow directions carefully when applying ______ on your lawn—more isn't always better.
- 20) Yard and vegetable food waste are suitable additions to a _____ pile.

Down:

- 2) Don't dump used motor oil into storm drains. _____ it!
- 3) of soil from barren land can cloud nearby streams.
- prevent flooding, improve water quality, and provide habitat for waterfowl, fish, and wildlife.
- 5) Marking "Do Not Dump, Drains to Bay" on a ______ is one way to educate people about polluted runoff.
- 6) Excess sediment, nutrients, toxics, and pathogens are all types of runoff
- 11) Polluted _____ is the nation's #1 water quality problem.
- 13) The cattail is one wetland ______ that helps purify polluted runoff.
- 14) Too much _____ in water can harm aquatic life.
- 15) Proper crop and animal management on helps to control water pollution.
- 17) impact development helps control stormwater pollution through conservation approaches and techniques.

Choices:

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ost	nonpoint	sediment
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on	oil	storm drain
5	plant	urban
zer	pollution	wakes
	recycle	watershed
	runoff	wetlands

EPA

United States Environmental Protection Agency For more information, please visit EPA's Polluted Runoff web site at www.epa.gov/nps

Printed with soy based inks on recycled paper.

What is Storm Water?

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

Why is Sform Water "Good Rain Gone Wrong?"

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

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

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

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

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

Answers to lest Your Storm Sewer System Savy:

pipes. It can also include ditches used to convey storm water from the land to a receiving lake, river, or I. Ditch - Part of the storm sewer system. Most people think that the system is just a series of underground

water, but is allowed by law to enter the storm sewer system. 2. Fire Hydrant – Not part of the storm sewer system. Water sprayed from fire hydrants is not storm

first. Many communities stencil storm drains with "Do Not Dump" messages to let people know. disposed of hazardous materials) travel directly to a receiving lake, river, or stream without being treated is an opening leading to the storm sewer system. Anything going into this inlet (e.g., trash, leaves, impropeny 3. Curb with Storm Drain Inlet - Part of the storm sewer system. Many people do not realize that this

raining, there could be a problem with the system or someone has used a storm drain for illegally disposing the storm sewer system into a receiving lake, stream, or river. If there is a flow from an outfall when it isn't 4. Storm Sewer Outfall – Part of the storm sewer system. An outfall is where storm water drains from

may have a combined sewer system designed to carry both storm water and sanitary waste. travel through a sewer system constructed to carry sanitary wastes. In some instances, older communities 5. Toilet – Not part of the storm sewer system Wastewater from sinks and toilets in houses and businesses

system, as well as directly to lakes, rivers, and streams. wastes on-site. Improperly maintained septic systems can leak and contribute pollutants to the storm sewer 6. Septic System – Not part of the storm sewer system. Homeowners use septic tanks to manage sanitary

wastes) that storm water eventually washes into the storm sewer system. surfaces such as parking lots and sidewalks can accumulate pollutants (e.g., oil, grease, dirt, leaves, trash, pet 7. Roads and Other Paved Areas – Not part of the storm sewer system. Roads and other hardened

to streams, invers, and lakes without being treated first. It is important to recognize this as a storm drain to may look like. Like the storm drain inlet shown in picture #3, anything that enters this drain will go directly 8. Storm Drain Inlet – Part of the storm sewer system. This is another example of what a storm drain

prevent it from being used as a trash can.

Pennsylvania Department of Environmental Protection



www.dep.state.pa.us

Where To Go To Continue the Information flow

Your community is preventing storm water pollution through a

to the storm sewer system, and pollution prevention and good

coordinator or the Pennsylvania Department of Environmental

Protection for more information about storm water management.

storm water management program. This program addresses storm

water pollution from construction, new development, illegal dumping

housekeeping practices in municipal operations. It will also continue

to educate the community and get everyone involved in making sure the only thing that storm water contributes to our water is ...

water! Contact your community's storm water management program

When It Rains, **It Drains**

Understanding Storm Water and How If can Affect Your Money, Safety, Health and the Environment



What Happens When It Rains?



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



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

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



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

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



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

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

Test Your Storm Sewer System Savvy!

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













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

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

10 1 hima Save

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

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

IN YOUR YARD

runoff.

paints, and preservatives. They go directly into streams ardous waste collection program instead.

Plant a tree. Besides providing oxygen to the atmosenergy costs.

AT HOME

use native grasses or other plants that don't require nitrogen entering the Bay, and a large part of that is from vehicle don't realize that they are part of a watershed and that their watering or fertilizing. Reduce or eliminate use of chem- exhaust. Make it a personal goal to combine errands and limit trips to actions have an impact on water quality. Share your concerns ical herbicides and pesticides. Learn to live with a dan-reduce your contribution to auto emissions. And when the time comes about the Bay with friends and neighbors, or visit a stream, delion or two. Lawn fertilizers and chemicals are a big to buy a new car or truck, choose the most fuel-efficient and low-emis- creek, or park with a child. If people love their environment, source of nitrogen and phosphorus pollution and toxic sion gasoline, gasoline, electric hybrid, or alternative-fuel model in its they'll be more likely to take care of it in the future. class.

Avoid pouring toxic substances down storm Buy local foods. Did you know that most foods you eat travel 1,300 drains. Don't dump hazardous materials like solvents. miles before they get to your plate? Buying food that's grown on local farms minimizes transportation-related emissions. It also keeps local and waterways to pollute the Bay. Use your county's haz- farmers in business-which is good for Bay lands and, ultimately, Bay political muscle on behalf of the environment. water quality. Try shopping for your produce at farmers' markets, or join a Community Supported Agriculture farm.

phere, trees hold soil in place with their roots, prevent- Minimize your use of household chemicals. Instead of all-puring erosion that runs into the Bay. They soak up fertiliz- pose cleaners, use baking soda or borax and hot water for almost ers and other chemicals before they seep into waterways. any sort of household cleaning, from toilet bowls to greasy pots and And by shading your home in summer, they even reduce pans and laundry. Natural products reduce toxic chemicals in the wastewater.

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

IN YOUR COMMUNITY

Make your lawn Bay-friendly. In your landscaping, Drive less. Air pollution contributes more than one-third of all the Introduce a friend to the Bay watershed. Many people

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

WANT TO KNOW MORE? Visit the Chesapeake Bay **Foundation Web site:** cbf.org

Printed on recycled, recyclal

CHESAPEAKE BAY FOUNDATION Saying a National Treasure

MCM #2 Appendix

- MCM #2 Project Plan
- BMP 2.1 Attachments
 - Annual Report location on Website.pdf
- BMP 2.2 Attachments
 - Ordinance Adoption Procedure.pdf
 - York City Ordinance 942 IDDE to the MS4

• BMP 2.3 Attachments

• Public Meeting 2016-2017.pdf

MCM #2 Project Plan

• BMP 2.1

Description:

Develop, implement and maintain a written Public Involvement and Participation Program (PIPP) <u>Measurable Goal</u>:

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

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

Action Plan:

The York City MS4 taskforce will review and revise this plan on an annual basis, at a minimum. The plan shall include the minimum required activities, summarized above, and note all additional activities performed within the City that exceed minimum requirements. On January 19, 2017, the following members of the MS4 Taskforce reviewed and revised the PIPP: MS4 Coordinator - Lettice Brown, Deputy Director of Public Works - Chaz Green, City Engineer - Jeff Shue, P.E., C.S. Davidson Rep - Derek Rinaldo, E.I.T. The plan includes the following activities:

i) Public Input Opportunities:

MS4 Public Meeting – The City will hold an MS4 public meeting consistent with the requirements of BMP 2.3. The Public Works Director, Ms4 Coordinator, and City Engineer are responsible for the scheduling and content of this meeting. The objective is to educate City residents on the MS4 program and solicit their opinions and ideas for successful permit compliance.

ii) Watershed/Environmental Group Commination:

Watershed Alliance of York (WAY) – WAY is a coalition of stakeholders committed to being innovative leaders educating the public and encouraging watershed-based planning, restoration and protection in York County, Pennsylvania, and beyond. WAY provides watershed educational assistance and sponsors stream and illegal dump site cleanups throughout the year. The City has executed a Memorandum of Understanding with WAY making the services of WAY available to the City to aid in meeting the education and participation requirements of the MS4 permit. The City currently provides a link to WAY's website in the Stormwater Management section of the City's Website.

iii) Annual Report Publication:

A copy of the current MS4 Annual Report will be posted under the Stormwater Management section of the City's website. The MS4 Coordinator is responsible for ensuring the report is posted.

iv) Additional Opportunities for Public Involvement and Participation

- (1) Facebook Page
- (2) York City Go Green Event
- (3) Targeted Educational Meetings
- (4) Olde York Street Fair
- (5) Willis Run Litter and Large Item Cleanup

• BMP 2.2

Description:

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

Measurable Goal:

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

Action Plan:

York City shall follow the standard procedure for ordinance adoption as defined in the City Code. All ordinances are required to be advertised and are then discussed and adopted during City Council Meetings, which are open to the public. No MS4 related ordinances have been adopted within the previous year.

• BMP 2.3

Description:

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

Measurable Goal:

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

Action Plan:

(1) Illicit Discharge Reporting: The City has established a system for the reporting and elimination of illicit discharges which utilizes the MS4 Coordinator as the contact for all stormwater related complaints. Methods of reporting an illicit discharge are by telephone at (717) 324-6532 or by email at Stormwater@yorkcity.org. This contact information is provided under the Stormwater Management section of the City's Website and advertised on the local community television station, White Rose Community Television.

(2) Public Meeting: One MS4 public meeting will be held each permit year at a minimum. The Public Works Director and City Engineer are responsible for the scheduling and content of this meeting. The objective is to educate City residents on the MS4 program and solicit their opinions and ideas for successful permit compliance. The public meetings will typically occur during a regularly scheduled City Council Meeting because they are all televised on White Rose Community Television. This allows the City to extend their reach to a greater audience.

Learn More About Local Water Conservation Organiz

- York County Coalition for Clean Waters YCC4CW
- Watershed Alliance of Work
- Vork County Conservation District
- Lower Susquehanna Riverkeeper
- Codorus Creek Watershed Association

Documents/Education Materials

social Media and other sites

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City of York, Pennsylvania Municipal Separate Storm Sewer System (MS4) Stormwater Management Program (NPDES PAG133596)

MS4 – STORMWATER ORDINANCE ADOPTION STANDARD OPERATING PROCEDURE

Last revised: 2/17/2014

Prepared by City of York, Pennsylvania Department of Public Works

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Appendices

Appendix A:Example Ordinance with Format, Strike-Through and Bolded Highlighted TextAppendix B:Example Proof of Publication

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Note: This SOP is written in the second person for ease of reading.

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Abbreviations

BMP -- Best Management Practice

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<u>MCM</u> – Minimum Control Measure

MS4 - Municipal Separate Storm Sewer System

NPDES - National Pollution Discharge Elimination System

<u>PADEP</u> - Pennsylvania Department of environmental Protection

SOP - Standard Operating Procedure

<u>USEPA</u> – United States Environmental Protection Agency

1. Introduction

This SOP provides the necessary steps to amend an existing, or pass a new, stormwater management ordinance that meets the requirements of the City of York's General MS4 NPDES permit. The following sections of the permit reference stormwater ordinance requirements:

- Part A, paragraph 2 to enact stormwater ordinances satisfying specific requirements.
- Part B.2.c to include ordinance provisions that ensure the proper operation and maintenance of all stormwater BMPs and all pollutant reduction BMPs that discharge into the MS4 stormwater system (this includes owners and operators of all BMPs including the City of York).
- Part A.2.d-e to maintain stormwater ordinances and prevent increased pollutant loadings.
- Appendix A, MCM#2 Public Involvement / Participation, BMP 2 to provide adequate public notice and opportunities for public review, input and feedback.
- Appendix A, MCM#3 Illicit Discharge Detection and Elimination, BMP 5 to enact a stormwater management ordinance to implement and enforce a stormwater management program that prohibits non-stormwater discharges.
- Appendix A, MCM#3 Illicit Discharge Detection and Elimination, BMP 5 to maintain, update, implement and enforce a stormwater management ordinance. Ordinances must be updated to meet the requirements of the NPDES permit.
- Appendix A, MCM#4 Construction Site Stormwater Runoff Control, BMP 2 to enact, implement and enforce an ordinance that requires implementation of erosion and sediment control BMPs, including sanctions to ensure compliance.
- Appendix A, MCM#5 Post-Construction Stormwater Management in New and Re-development Activities, BMP 4 to enact, implement and enforce an ordinance or other regulatory mechanism to address post-construction stormwater runoff from new development and redevelopment projects, as well as sanctions and penalties associated with non-compliance.

In addition to the City of York general stormwater permit, stormwater ordinances may also be required by other state or federal regulations (i.e., floodplain management, Act 167 ordinances).

Additional general ordinance adoption references that may be useful include: Articles 101 and 115 of the York City Code, 3rd Class Charter Law (53 P.S. §41607(b)), and the Pennsylvania Sunshine Act (65 Pa. C.S. Chapter 7).

2. Stormwater Ordinance Adoption Procedure

The following steps walk you through the stormwater ordinance adoption process. The procedure is the same for passage of all ordinances in Pennsylvania 3rd Class Cities that do not require public hearings.

This SOP does not cover specific City Council rules and procedures. Questions regarding City Council procedures should be directed to the City Clerk and City Solicitor.

2.1. Standard Ordinance Format

The following standard is used for ordinances submitted to City Council for consideration:

- Font 'Times New Roman' in 12 point
- Deletions to an ordinance are indicated using a strike through (i.e., deleted text). Strike through also applies to punctuation marks and section/subsection numbering.
- Additions to an ordinance are indicated using bolded and underlined text (i.e., <u>textual additions</u>). Bolded and underlined text also applies to punctuation marks and section/subsection numbering.
- Numbering of articles, parts, sections, and subsections follow the format already in use by the York City Code. Format requirements are also stated in York City Code Article 101.03, Amendments and Supplements; Numbering.

• An example ordinance amendment is located in Appendix A.

2.2. Steps

Unless otherwise required by law, the following steps are used to amend an existing stormwater ordinance or adopt a new stormwater ordinance. The following steps can be used as a checklist to track the progress of the ordinance in the approval process.

2.2.1. Internal Staff Process

- Draft the ordinance or amendments to meet the requirements of the MS4 permit.
- It is the duty of the City of York to ensure that its stormwater management ordinances are designed to prevent increased loadings of pollutants and not cause or contribute to a violation of water quality standards by any discharges from its stormwater system (ref: NPDES permit Part A.2.e). Review the ordinance to ensure this requirement is met.
- The ordinance must include provisions to ensure that proper operation and maintenance is performed on all stormwater BMPs and that there is a reduction in pollutants from BMPs that discharge into the MS4 system. (This applies to the owners and operators of all such BMPs, including the City of York.)
- At times, template language will be provided (i.e., by PADEP, USEPA or the York County Planning Commission). It is very important to thoroughly read any template language, and modify accordingly!!! Oftentimes, template language will not be applicable either to Pennsylvania or to a City of the Third Class, or other sections of the City of York Code may already address part of the template language.
- Note that any stormwater changes that specifically impact the floodplain or floodway will need to be checked against state and federal floodplain management requirements for compliance.
- Submit the draft ordinance to the City Engineer and lead City enforcement staff for review and comment.
- Incorporate the staff comments.
- If you know in advance of any expressed opinions from the public regarding stormwater, incorporate them into the draft ordinance if appropriate. For example, the public may have expressed opinions during Council meetings, informal discussions with staff, etc. Some comments may be more appropriately addressed via another means (i.e., the enforcement response plan, policy of Permits, Planning & Zoning Office, etc.).
- Submit the draft to the City Solicitor for review and comment in accordance with Article 115.01(a). If you have any specific questions, be sure to call them out in the cover memorandum requesting review.
- Incorporate City Solicitor comments into the draft ordinance. If changes are substantial, or if you are unsure if the changes you made meet the intent of the City Solicitor's comments, resubmit for a second round of City Solicitor comment and final approval.
- You are ready to move on to the next step: Public Comment.

2.2.2. Obtaining Public Comment

• The draft ordinance should now be ready to present to the public for comment. There are four measures for obtaining public input on stormwater ordinances required by the MS4 permit: advertising the ordinance; providing opportunities for public comment; evaluating public input and feedback; and, documenting the comments and the municipal response to the comments.

- Provide an opportunity for public comment through: informal meeting(s), open house (not hearing); internet solicitation; advertising on WRCT; and/or, other means. A meeting or an open house does not need to be formal: the idea is to obtain meaningful public comment. The meeting or open house can be held during select civic group meetings, neighborhood meetings, before Council meetings, etc.
- Take notes during public meetings, and collect all public comments.
- Document all public comments, and provide a written municipal response to each comment for the file. Similar comments may be grouped together under one response. If the draft ordinance was modified to accommodate the public comment, indicate that this occurred and where it was incorporated. If the public comment was not incorporated into the draft ordinance, state the reason(s). This information is required to demonstrate compliance with the MS4 permit, and to protect the City of York in tort suits. It is also generally accepted practice to document public comments.
- While the information is not usually shared with the public, it is important to format the information so that it is acceptable for public viewing should it be requested. It can also be an attachment to the MS4 annual report.
- Ask the City Solicitor to review any language proposed from the public comment process, and incorporate any changes as appropriate.
- You are now ready to move onto the next step: City Council Approval Process.

2.2.3. City Council Approval Process

- Please note: legislation (i.e., an ordinance) presented to Council for consideration is called a bill. For ease of reading, this SOP will continue to refer to the ordinance as an ordinance, not a bill.
- The ordinance is now ready to go through the City Council approval process.
- Fill out a committee issues chart and email it, along with an electronic version of the final draft ordinance to the City Clerk, and request that the item be placed on the next Council committee agenda. Deadlines for committee submission are as follows: by 12:00 p.m. on the Wednesday business day prior to the next regularly committee meeting. (Current deadlines and the supplemental agenda process can be obtained from the City Clerk and the City of York website. Deadlines are set by resolution and are incorporated into the rules and procedures of the Council.)
- The City Clerk will include your item on the committee agenda for Council discussion. Committee meetings are normally held on the 4th Wednesday of each month (or as otherwise stated) at 6:00 p.m. in City Council Chambers. Staff representation is required at the committee meeting to discuss the ordinance and answer questions.
- If corrections are made to the ordinance during the committee meeting, make said corrections and forward the corrected ordinance back to the City Clerk for inclusion on Council's legislative agenda.
- Council will determine which legislative meeting the ordinance will be introduced, unless a specific meeting date is requested. Legislative meetings are normally held the 1st and 3rd Tuesday of each month (unless otherwise stated) at 7:00 p.m. in City Council Chambers. There is normally no discussion of the ordinance when it is introduced.
- Once introduced, the City Clerk will insert the appropriate bill number, introductory date, introducing Council member, and introductory text.
- Once the ordinance is introduced, the City Clerk will advertise the proposed ordinance in the legal ad section of the newspaper as required under Pennsylvania statute. This will meet the advertising requirement of the MS4 permit.
- The ordinance will be introduced by Council at one meeting and considered for final passage at the next City Council meeting (unless a different meeting date is requested).

- Obtain a copy of the legal advertisement and place it in the ordinance project file. A copy can be obtained by cutting the advertisement out of the publishing newspaper, or by requesting a copy of the City Clerk's Proof of Publication received from the publishing newspaper. An example Proof of Publication is located in Appendix B.
- At the next meeting, City Council will consider the ordinance for final passage. A City of York staff member will attend the Council meeting to answer any questions from the public or Council. Since the stormwater ordinance will most likely be generated from Public Works, the Public Works Director will probably attend the meeting to address questions. The Public Works Director may also have you attend to answer any detailed questions that may arise.
- At the meeting, the Council President will give the public an opportunity to comment on the proposed legislation.
- Document questions and comments presented by the public, and any responses.
- One of four courses of action will occur: Council will pass the ordinance; Council will fail the ordinance; Council will table the ordinance until questions/concerns are addressed; or, Council will refer the ordinance back to committee for further discussion.
- If the ordinance passes,
 - The City Clerk assigns an ordinance number, records the date the ordinance passed/failed, records the votes, then submits the approved ordinance to the Mayor for approval *via* signature (ordinances that fail do not require the Mayor's signature).
 - The Mayor has ten days after City Council submits the ordinance to either approve or disapprove (veto) the ordinance.
 - Once the Mayor signs the approved Ordinance, the City Clerk will email the signed ordinance back to whoever submitted the bill to show that it was approved. Place this in the project file for documentation.
 - The ordinance date of passage is the date Council passes finally the ordinance.
 - The ordinance effective date is 20 days after the Mayor signs the ordinance, unless a later date is stated in the ordinance itself. To determine the ordinance effective date, count 20 days starting on the day following the Mayor's signature. For example, an ordinance signed by the Mayor on May 6th would become effective on May 26th.
- If the ordinance fails,
 - The process must be started over again so an ordinance can be passed that meets the requirements of the MS4 permit: not meeting MS4 permit requirements is not an option.
- If the ordinance is referred to committee, contact the City Clerk for process and information.

3. File Documentation

- Fully document the project file regarding sources used to draft the ordinance, Solicitor comment, public comment, passage, etc. Proper documentation is used for audit compliance, to provide documentation against tort suits, and to show ordinance requirements were not crafted in an arbitrary or capricious manner.
- The following items should be included in the project file:
 - Reason for creating the ordinance or amendment
 - All sources used to generate or amend the ordinance
 - Iterations of the ordinance
 - Staff notes and comments
 - Solicitor comments
 - o Public comments
 - Minutes from the public meeting/open house
 - Any materials used at the open house/meeting (such as an agenda, work sheets, PowerPoint slides, etc.)

- Any documentation of advertising such as on the City of York website, WRCT, any fliers distributed, etc.
- o Responses to public comments
- Ordinance as presented to Council
- o Copy of the passed ordinance with mayoral signature and City Clerk attachment.
- Proof of Publication
- Ordinance effective date (noted)
- While the permit requires that records of documentation related to MS4 program be kept for a minimum of three years, the permit itself has a five-year lifespan and the statute of limitations for audit records review by EPA is generally five years. It is recommended that the information be retained for a minimum of five years.

4. Submit Documentation to the State

- MS4 Permit Appendix A, MCM#3, BMP5 requires the City of York to "submit documentation of completion" to the Pennsylvania Department of Environmental Protection (PADEP). MS4 Permit Appendix A, MCM#2, BMP2 requires public notice and opportunities for public review, input and feedback into the stormwater ordinance.
 - Generate an interoffice cover memorandum that includes the ordinance name, date of final passage (enactment), effective date, date of public notice, a statement that the ordinance meets MS4 permit requirements, and that the information must be submitted to PADEP with the MS4 annual report. Attach documentation required by the annual report: public comment documentation, proof of publication, and passed ordinance. Send to the Director of Public Works. Keep a copy of the memorandum for the file.
Appendix A: Example Ordinance with Format, Strike-Through, and Bolded Highlighted Text

:

Z N K TITLE THREE - Public Sewers Art. 931. Sanitary Sewers Art. 932: Plumbing Requirements Art. 933. Sewer Rentals Art. 935. Storm Sewers

ARTICLE 931 Sanitary Sewers

931.01 Definitions

931.02 Prohibited wastes

931.03 Industrial wastes

931.04 Inspections Access to Premises, Right of Entry

931.05 Sewage, wastes and spilled matter not to be discharged into watercourses

.

931.06 Garages

931.07 Interceptors Required

931.08 Hotels and restaurants

931.09 Violations

931.10 Sewer rental surcharges; determination and measuring volume

931.11 Suspension and termination of service Remedies

931.12 Public Notice of Significant Violators

931.13 Public Access To Information

931.14 Hazardous Waste

931.15 Record Keeping

931.16 Administration

931.17 Appeals

931.18 Validity

931.99 Penalty

CROSS REFERENCES

1

Federal Water Pollution Control Act - (Clean Water Act); (as amended 33 U.S.C. 1251, et seq.) Federal pretreatment regulations - 40 CFR chapter I, subchapter N Sewer connections - see 3rd Class 3201 et seq. (53 P.S. 38201 et seq.) City may charge tapping fee - see 3rd Class 3202 (53 P.S. 38202) Power to furnish facilities outside City - see 3rd Class 3250 (53 P.S. 38250) Sewage disposal standards - see 25 Pa. Code 73.1 et seq. Waste water treatment - see 25 Pa. Code Ch. 95 Industrial wastes - see 25 Pa. Code Ch. 97 Industrial wastes charge - see S. U. & P.S. 933.04 New subdivision sewers - see P. & Z. 1307.07 1338.07

931.01 DEFINITIONS.

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The following words and terms, when used in this article, shall have the following meanings, unless the context clearly indicates otherwise: <u>Definitions not found in this article may be found in 40 CFR</u>

. . . .

- (a) "Act" means Federal Water Pollution Control Act, also known as the Clean Water Act, as amended 33 U.S.C. 1251, et seq.
- (b) "Best Management Practice" or "BMPs" means achedules of activities, prohibitions of practices, maintenance procedures, and other management practices to implement the general and specific prohibitions listed in Section 931.02 and 40 CFR 403.5(a)(1) and (b). BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage,
- (bc) "B.O.D. BOD (Biochemical oxygen demand)" means the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedure in five (5) days at twenty degrees Centigrade Celsius, expressed in terms of weight-and concentration (milligrams per liter (mg/LJ)).
- (ed) "Categorical Pretreatment Standards" or <u>"Categorical Standard"</u> means any regulation containing poliutant discharge limits set forth by the EPA <u>that apply to a specific category of</u> <u>Industrial Users and that appear in 40 CFR chapter I, subchapter N.</u>

(e) "CFR" means Code of Federal Regulations.

- (df) "Commercial Wastes" means the wastes generated from a commercial operation as distinct from domestic, and industrial sewage.
- (eg) "Composite sample" means a combination of individual samples obtained at regular intervals over a specified time period not to exceed two hours the period of discharge. Whenever practical, composite samples shall be proportionate to flow rate so as to be representative of the discharge during the period of sampling. When an industrial waste discharge is collected over a period of time and discharged as a daily basis or less frequent batch, a single sample from the batch shall be considered a composite sample for purposes of this Article.
- (f) "Daily average concentration" means the concentration as determined by a twenty four hour composite complex (Ord. 02-7. Pasced 2-20-02.)
- (9h) "Daily discharge" means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants expressed in other units of measurement (i.e., mg/l), except for pH, the "daily discharge" is calculated as the arithmetic average measurement of the pollutant derived from all measurements taken that ever the day or by the measurement of a composite sample taken that day. (Ord. 50-2003. Passed 12-16-03)

(I) "Discharge" means "indirect discharge."

- (hj) "Domestic sewage" means the water-borne waste derived from ordinary living processes.
- (k) "Existing source" means any source of discharge that is not a "new source."

- (iii) "Garbage" means solid waste from the preparation, cooking and dispensing of food, and from the handling, storage and sale of produce.
- (jm) "Garbage grinders" means a mechanical device which <u>that</u> shreds or grinds food <u>into small</u> <u>particles</u> for the purpose of sewage disposal.
- (kn) "General Manager" means the General Manager of the York City <u>City of York</u> Wastewater Treatment Plant or his duly authorized representative<u>s or designees</u>.

(Io) "Grab sample" means an individual sample collected in less than fifteen minutes that is taken from a wastestream without regard to the flow in the wastestream and over a period of time not to exceed fifteen (15) minutes.

- (mg)- "Ground-garbage" means the residue from the preparation, cooking-and dispensing of food that the has been shredded to such degree that all particles shall be carried freely in suspension under the normal flow conditions prevailing in the sewer conduit to which they are contributory and those prevailing in-public sewers with no particle greater than one-half inch in any-dimension.
 - (q) "Indirect discharge" or "Discharge" means the introduction of pollutants into the POTW from any non-domestic source.

(r) "Industrial user" means any "user" that discharges "industrial wastes."

- (As) "Industrial wastes" means the wastes from industrial processes as distinct from domestic, and commercial sewage.
- (et) "Instantaneous maximum concentration" means the concentration not to be exceeded at any time in any grab sample.
- (<u>pu</u>) "Interceptor" means a device designed and installed so as to separate and retain deleterious, hazardous, or undesirable matter from normal wastes, while permitting allowing normal sewage or wastes to discharge into the drainage system by gravity.
- (q<u>v</u>) "Interference" means a discharge which, alone or in conjunction with a discharge or discharges from other sources, both:
 - (1) Inhibits or disrupts the POTW, its treatment processes or operations, or its sludge processes, use or disposal; and
 - (2) Therefore is a cause of a violation of any requirement of the POTW's NPDES permit (including an Increase in the magnitude or duration of a violation) or of the prevention of sewage sludge use or disposal in compliance with the following statutory provisions and regulations or permits issued thereunder (or more stringent State or local regulations): Section 405 of the Clean Water Act, the Solid Waste Disposal Act (SWDA) (including Title II, more commonly referred to as the Resource Conservation and Recovery Act (RCRA), and including State regulations contained in any State sludge management plan prepared pursuant to Subtille D of the SWDA), the Clean Air Act, the Toxic Substances Control Act, and the Marine Protection, Research and Sanctuaries Act [40 CFR 403.3(ik)]. (Ord. 02-7 Passed 02/20/02; Ord. 50-2003. Passed 12-16-03.)
- (w) "Local limit" means specific discharge limits developed and enforced by the City of York upon industrial or commercial facilities to implement the general and specific discharge prohibitions listed in 40 CFR 403.5(a)(1) and (b). Local limits are found at Section 931.02(b) (2). Section 931.02(b)(6), and Section 931.02(b)(13.

- (F2) "Maximum daily limit" means the highest allowable "daily discharge" of a pollutant. (Ord. 50-2003, Passed 12-16-03.)
- (cy) "mg/l" means milligrams per liter.
- (z) "Monthly average" means the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month.
- (aa) "Monthly average limit" means the highest allowable average of "daily discharges" over a calendar month, calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month,
- (uac) "Pass through" means a discharge which exits the POTW into waters of the United States in quantities or concentrations which, alone or in conjunction with a discharge or discharges from other sources, is a cause of a violation of any requirement of the POTW's NPDES permit (including an increase in the magnitude or duration of a violation) (40 CFR 403.3(ap)).
- (vad) "pH" means the logarithm (base 10) of the reciprocal of the weight of hydrogen ions in grams per liter of solution. It is a measure of the acidity or alkalinity of a solution, expressed in standard units.
- (wae) "Person" means any individual, partnership, firm, company, corporation, association, joint stock company, trust, estate, governmental entity or any other legal entity, or their legal representatives, agents or assigns. The masculine gender shall include the feminine, the singular shall include the plural where indicated by the context.
- (af) "Pollutani" means dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, sewage sludge, munitions, medical wastes, chemical wastes, biological materials, radioactive materials, heat, wrecked or discarded equipment, rock, sand, celler dirt, municipal, agricultural and industrial wastes, and certain characteristics of wastewater (e.g., pH, temperature, TSS, turbidity, color, BOD, COD, toxicity, or odor).
- (ag) "Pretreatment" means the reduction of the amount of pollutants, the elimination of pollutants, or the alteration of the nature of pollutant properties in wastewater prior to or in lieu of discharging or otherwise introducing such pollutants into a POTW. The reduction or alteration may be obtained by physical, chemical or biological processes, process changes or by other means, except as prohibited by 40 CFR 403.6(d). Appropriate pretreatment technology includes control equipment, such as equalization tanks or facilities, for protection against surges or slug loadings that might interfere with or otherwise be incompatible with the POTW. However, where wastewater from a regulated process is mixed in an equalization facility with unregulated wastewater or with wastewater from another regulated process, the effluent from the equalization facility must meet an adjusted pretreatment limit calculated in accordance with 40 CFR 403.6(e).

<u>(ah)</u> "Pretreatment requirements" means any substantive or procedural requirement related to Pretreatment, other than a National Pretreatment Standard, imposed on an Industrial User.

(al) "Pretreatment standards or standards" shall mean Categorical Standards, standards established by 40 CFR 403.5(b), and Local Limits.

- "Publicly Owned Treatment Works" or "POTW" means a treatment works as defined by section (xaj) 212 of the Act, which is owned by a State or municipality (as defined by section 502(4) of the Act); This definition includes any devices and systems used in the storage, treatment, recycling and reclamation of municipal sewage or industrial wastes of a liquid nature. It also includes sewers, pipes and other conveyances only if they convey wastewater to a POTW Treatment Plant. The term also means the municipality as defined in section 502(4) of the Act, which has jurisdiction over the Indirect Discharges to and the discharges from such a treatment work [40 CFR 403.3(eg)]. المى مى مەركىيى مەركىيى بىر مەركىيى مەركىي
- "Sanitary sewer" means a sewer which that carries sewage and to which storm, surface and (yak) ground waters are not intentionally admitted.
- "Sewage" means a combination of the water-carried wastes from residences, business buildings, (zal) institutions and industrial establishments, together with such ground, surface and storm waters as may be present.
- (aaam) "Sewage works" means all facilities for collection, pumping, treating and disposing of sewage (see Publicly Owned Treatment Works-POTW).
- "Significant industrial user (SRJ)" means, except as provided in paragraphs (3) and (4) of (an) this Section.
 - An Industrial User subject to categorical Pretreatment Standards; or (1) –
 - (2) An Industrial User that:
 - (A) Discharges an average of twenty-five thousand (25,000) gallons per day (gpd) or more of process wastewater to the POTW lexcluding sanitary, non-contact cooling and boiler blowdown wastewater);
 - (B) Contributes a process wastestream which makes up five (5) percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant; or
 - (C) is designated as such by the City of York on the basis that it has a reasonable potential for adversely affecting the POTW's operation or for violating any Pretreatment Standard or Requirement.
 - (3) The General Manager may determine that an industrial User subject to categorical Pretreatment Standards is a Non-Significant Categorical Industrial User rather than a Significant Industrial User on a finding that the industrial User never discharges more than 100 gallons per day (gpd) of total categorical wastewater (excluding sanitary, non-contact cooling and boiler blowdown wastewater, unless specifically included in the Pretreatment Standard) and the following conditions are met:
 - (A) The Industrial User, prior to the General Manager's finding, has consistently complied with all applicable categorical Pretreatment Standards and Requirements;
 - The Industrial User annually submits the certification statement required in 40 CFR **(B)** 403.12(q), together with any additional information necessary to support the certification statement; and
 - The Industrial User never discharges any untreated concentrated wastewater. (C)
 - Upon a finding that a User meeting the criteria in Subsection (2) of this part has no (4) reasonable potential for adversely affecting the POTW's operation or for violating any Pretreatment Standard or Requirement, the General Manager may at any time, on its

own Initiative or in response to a petition received from an industrial User, and in accordance with procedures in Federal pretreatment requirements of 40 CFR chapter I, subchapter N, determine that such User should not be considered a Significant Industrial User.

- (ao) "Siug" or "slug discharge" means any discharge at a flow rate or concentration, which could cause a violation of the prohibited discharge standards in Section 931.02 of this ordinance. A slug discharge is any discharge of a non-routine, episodic nature, including but not limited to an accidental spill or a non-customary batch discharge, which has a reasonable potential to cause interference or pass-through, or in any other way violate the POTW's regulations, local limits or permit conditions.
- (bbap) "Storm Water" means storm water runoff, snow melt runoff, and surface runoff and drainage.
- (eeag) ..."Storm sewer or storm drain" means a sewer which that carries storm and surface waters and drainage, but excludes sewage and polluted industrial wastes.
- (ddar)—"Suspended solids" means the total nonfilterable residue retained on a glass fiber filter, 0.45 micron, and dried at a temperature of 103-105 degrees Calstage to a constant weight.
- (eeas) "Toxic Pollutant" means any pollutant or combination of pollutants listed as toxic in regulations promulgated by the Administrator of the Environmental Protection Agency under the provision of the Clean Water Act 307(a) or other Acts.
- (ffat) "Treatment plant" means the York City of York Wastewater Treatment Plant, 1701 Black Bridge Road, York, PA 17402.
- (ggau) "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with categorical Pretreatment Standards because of factors beyond the reasonable control of the Industrial User. An Upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation [40 CFR 403.16(a)]. (Ord. 02-7. Passed 2-20-02; Ord. 50-2003. Passed 12-18-03.)
- (av) "User" means a source of indirect discharge,
- (aw) "Wastewater" means liquid and water-carried industrial wastes and sewage from residential dwellings, commercial buildings, industrial and manufacturing facilities, and institutions, whether treated or untreated, which are contributed to the POTW.
- 931.02 PROHIBITED WASTES.
- (a) No person shall discharge or cause to be discharged any storm water, surface water, ground water, roof run-off or substance drainage except around basement-walls into any sanitary sewer. Swimming pool drainage shall be allowed provided the Pennsylvania Department of Environmental Protection swimming pool water discharge guidelines are followed, including dechloringtion and neutralization of water prior to discharge to an on-site sanitary sewer cleanourt. The addition of cooling water or unpolluted water or an increase in the use of process water for the purpose of reducing the concentrations of substances that are limited or prohibited by this article or federal pretreatment standard or requirement shall be prohibited. No User shall ever increase the use of process water, or in any way attempt to dilute a discharge, as a partial or complete substitute for adequate treatment to achieve compliance with a discharge limitation unless expressly authorized by an applicable

Pretreatment Standard or Requirement. The General Manager may impose mass limitations on Users who are using dilution to meet applicable pretreatment standards or requirements, or in other cases when the imposition of mass limitations is appropriate.

- (b) Except as hereinafter provided, no person shall discharge or cause to be discharged at any time any of the following described wastes or waters into any sanitary sewer or drain connected therewith:, <u>Pollutants, substances or wasteweters prohibited by this section shall not be</u> processed or stored in such a manner that they could be discharged to the POTW.
 - (1) Any liquid or vapor having temperature which shall inhibit biological activity in the treatment plant resulting in an inhibition or disruption of the Treatment Plant process, but in no case wastewater with a temperature upon reaching the Treatment Plant which exceeds 40° C (104° F) or upon reaching the public sewer of 8249° C (480120° F). (Ord. 02-7. Passed 2-20-02)
 - (2) Any water or waste containing more than 100 mg/l by weight of total hexane-extractible receverable materials, commonly referred to as oil and grease, as per 40 CFR 136.3. EPA method 1664. (Ord. 50-2003. Passed 12-16-03)
 - (3) Any garbage that is not ground garbage.
 - (4) Any ashes, cinders, sand, mud, straw, hay scraps, rags, shavings, metal, glass, bones, feathers, nubber, tires, plastic, wood, paunch manure; butchers' offal, grease or solid-fat, floating oil or any other solids or viscous substance capable of causing obstruction to the flow in sewers or other interference with the proper operation of the sewage works. (Ord. 33-1982 1. Passed 12-28-82.)
 - (5) Any water or waste having <u>at any time</u> a pH lower than 5.5 or higher than 11.0 or having any corrosive property capable of causing damage or hazards to structures, equipment or personnel or the sewage works or affecting the biological treatment of the waste. (Ord. 02-7, Passed 2-20-02)
 - (6) Any water or waste containing ony substances in concentrations in excess of the following limits discharge containing any substances in excess of the following concentrations, provided that the General Manager may waive this requirement on a case-by-case basis to impose an equivalent mass discharge limit when an industrial User implements water conservation measures:

Substances	Maximum Daily Discharge Limit (moll- I)
Arsenic, <u>Total</u>	0.2
Cadmium, <u>Total</u>	0.16
Chromium, <u>Total</u>	0.9
Copper, Total	1.6
Cyanide, <u>Total</u>	0.005 or 0.9 by permit
Lead, <u>Totai</u>	0.5
Mercury, Total	0.05
Molybdenum, Total	3.0
Nickel, Total	1.5
Selenium, <u>Total</u>	0.5
Silver, Total	1.3
Zinc, <u>Total</u>	5.0

- (7) Any toxic substance that chall pass through the sewage works and exceed State or Federal Egnvironmental quality slandards or cause an adverse effect on the POTW treatment processes or the quality of the Wastewater Treatment Plant effluent.
- (87) Any water or waste containing pollutants of such character and quantity that unusual attention or expense is required to handle such materials at the wastewater treatment plant, without unless a permit is obtained in accordance with Section 931.03.
- (98) Any water or waste containing any pollutant, including oxygen demanding pollutants (BOD, etc), released at a flow rate and/or pollutant concentration which, either singly or by interaction with other pollutants, causes interference or pass through.

- (199) Any toxic radioactive isotopes, without special permit. Biomedical waste disposal in accordance with 10 CFR Part 20 "Standards for Protection Against Radiation", Is permitted.
- (11) Any fuel or flammable material
- (120) Any substance which may form a deposit tending to cause a stoppage or injure, in any way, the sewage works.
- (131) Any far or by-products from any gas works or similar establishment.
- (142) Any pathological matter-infectious waste, which is defined as any substance which consists of or is contaminated by pathogens or other etiologic agents, and which has not been sterilized, neutralized, or otherwise rendered hamless. Infectious waste includes, but is not limited to: contaminated blood, blood products or other bodily fluids (excepting excrete discharged by normal bodily functions); wastes, including excrete, from patient isolation areas; laboratory samples or test materials; animal wastes and bedding; body parts; pathology and autopsy wastes; and glassware, hypodermic needles, surgical instruments and other sharps.
- (163) Any water or waste by any person having any average daily discharge to the sewage works of more than 5,000 gallons per day containing with a daily average concentration of more than 3,000 mg/L]. of B.O.D BOD.
- (164) Pollulants which create a fire or explosion hazard in the POTW, including, but not limited to, wastestreams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade Celsius using the test methods specified in 40 CFR 261.21.
- (175) Petroleum oil, nonbiodegradable cutting oil, or products of mineral oil origin in amounts that will cause interference or pass through.
- (186) Pollulants which result in the presence of toxic gases, vapors or fumes within the POTW in a quantity that may cause acute worker health and safety problems.
- (197) Any trucked or hauled pollutants, except at discharge points designated in writing by the General Manager of the POTW.
- (18) Noxious or malodorous liquids, gases, solids, or other wastewater which, either singly or by interaction with other wastes, are sufficient to create a public nuisance or a hazard to life, or prevent entry into the sewers for maintenance or repair.
- (19) Wastewater that imparts color that cannot be removed by the POTW treatment process, such as, but not limited to, dye wastes and venetable tanning solutions, which consequently imparts color to the treatment plant's effluent.
- (20) Sludges, screenings, or other residues from the pretreatment of industrial wastes.
- (21) Detergents, surface-active agents, or other substances that might cause excessive foaming in the POTW or its effluent.
- (c) The Federal Pretreatment Regulations do not allow a waiver of pretreatment standards, or local limits, for Categorical industrial Users. <u>The City of York hereby incorporates by reference all</u> <u>federal Categorical Pretreatment Standards at 40 CFR Chapter I, Subchapter N, as if they</u> <u>were fully set forth herein, and such standards shall be the standards applied under this</u> <u>Ordinance to the appropriate classes of industrial User.</u>
 - (1) Where a categorical pretreatment standard is expressed only in terms of either the mass or the concentration of a pollutant in wastewater, the General Manager may impose equivalent concentration or mass limits as allowed by Federal pretreatment regulation.
 - (2) When the limits in a categorical pretreatment standard are expressed only in terms of mass of pollutant per unit of production, the General Manager may convert the limits to equivalent limitations expressed either as a mass of pollutant discharged per day or effluent concentration for purposes of calculating effluent limitations applicable to individual industrial Users.
 - (3) When wastewater subject to a categorical Pretreatment Standard is mixed with wastewater not regulated by the same Standard, the General Manager shall impose an alternate limit in accordance with 40 CFR 403.6(e).
 - (4) A Categorical Industrial User may obtain a net/gross adjustment to a categorical Pretreatment Standard in accordance with the requirements of 40 CFR 403.15,

Appendix B: Example Proof of Publication .

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Proof of Publication State of Pennsylvania

AD# 0001171271-01

The York Dispatch/York Sunday News and York Daily Record

are the names of the daily newspaper(s) of general circulation published continuously for more than six months at its principal place of business, 1891 Loucks Road, York, PA 17408.

The printed copy of the advertisement hereto attached is a true copy, exactly as printed and published, of an advertisement printed in the regular issues of the said The York Dispatch/York Sunday News and York Daily Record published on the following dates, viz:

9/26/2011

COMMONWEALTH OF PENNSYLVANIA COUNTY OF YORK

Before me, a Notary Public, personally came

Linda Smith who being duly sworn deposes and says that she is the Layout Supervisor of The York Dispatch/York Sunday News and York Daily Record and her personal knowledge of the publication of the advertisement mentioned in the foregoing statement as to the time, place and character of publications are true, and that the affiant is not interested in the subject matter of the above mentioned advertisement.

Sworn and subscribed to before me, on this 26 day of September 2011

Auda Smith

Notary Public

COMMONWEALTH OF PENNSYLVANIA Notariat Seal Sheron K. Weniz, Notary Public Wast Manchester Twp., York County My Commission Expires March 1, 2013 Unriber, Pennsylvania Association of Notaries

J Vienne

The charge for the following publication of above mentioned advertisement and the expense of the affidavit.

Advertisement Cost	\$222.40
Affidavit Fee	5.00
Total Cost	\$227.40

Attach Copy of Advertisement here

NOTICE . YORK CITY COUNCIL

Council has proceed and will consider passage of the following the at a future mosting of Council:

Bill No. 31 - Amending Article 931 "Senitary Services." Section: 931.92(b)(6) "Prohibited Wealee," to modify the local limits...

Bit No. 32. Accepting a dedication of land from the estatic of Cartol Committle proofs as 1000 and 1000 S. Clogen St. YOK Dity settioning the experies of additing the settice and univer high to privinent and/or weaver of association

GIL No. 33 5 Ameriding Tile 4 Stormwarder Management of the Costiled Dydysnogs to repeal current Januares and replications and ownerstra Stormware Management ord

Bits may be examined in the City Clains Office 1. Marketvast Waal, Srit Fr. Arona Weedcaso torm beam-software affects of proceeding the Billia's and to inguine attest proceeding the adoption. User adcrementant, adoption of leg isation will make place at a Regulate meeting to CSUDEI), help in Council Chambers at 70m on other this 18 or 3M. Decetar of each month e is Marketvay. Vest, 3rd Floor York, PA, unless arother location, ar three is edverteed. Persens with disabilities may all 499-280 of accomhogations. Bit resone with hearing impairments at conceptions. Persone with hearing impairments.

<u>York City Ordinance 942 – IDDE to the MS4</u> 942.02 – PROHIBITION OF ILLICIT DISCHARGES

(a) No person shall discharge illicit materials/pollutants into the storm drain system or waters of the Commonwealth. Any discharges will be in direct violation of this Article

(c) If the Municipality or DEP determines that any of the discharges that are identified as ALLOWABLE discharges significantly contribute to the pollution of the Commonwealth, the Municipality or DEP will notify responsible person(s) to cease the discharge.

<u>942.07 – REQUIREMENTS TO PREVENT, CONTROL, AND</u> <u>REDUCE STORMWATER POLLUTANTS BY THE USE OF BMPs</u>

The Municipality will adopt requirements identifying BMPs for any activity, operation, or facility that causes or contributes to the pollution or contamination of storm water, the storm drain system, or Waters of the Commonwealth of Pennsylvania or the US. The owner or operator will be held fully responsible and at their own expense, should provide reasonable protection from accidental discharge of prohibited materials or other wastes into the storm drain system. Furthermore, the persons responsible may be required to implement, at their own expense, additional structural and non-structural BMPs to prevent further discharge of pollutants to the MS4.

942.09 - NOTIFICATION OF SPILLS

As soon as any person responsible for a facility or operation has information of any known or suspected release of materials which are resulting or may result in the Illicit Discharge or pollutants discharging into storm water or storm drain system of the Commonwealth of PA or US, that person should 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 notify the authorized enforcement agency in person or by phone or email no later than the next business day. If the discharge comes from an industrial or commercial site, the owner or operator should also retain an on-site written record of the discharge and the actions taken to prevent its recurrence. These records should be retained for at least 3 years.

<u>942.10 – ENFORCEMENT</u>

(a) When the Municipality has found a person has violated a prohibition or failed to meet a requirement of this Article, the Municipality may order compliance by written notice of violation to the responsible person. The notice may require the following:

1. The performance of monitoring, analyses, and reporting

2. The elimination of Illicit Connections or Discharges

3. Violating discharges, practices, or operations shall cease and desist

4. The abatement of storm water pollution or contamination and restoration of any affected property

5. Payment of a fine to cover costs

6. Implementation of source control or treatment BMPs

(b) If abatement of a violation and/or restoration of affected property is required, the notice shall set forth a deadline within which such remediation must be completed. It should also further advise that should the violator fail to remediate before the deadline, the work will be done by a designated governmental agency and the expenses will be passed on to the violator or will be assessed as a Municipal lien on the property.

942.13 - COST OF ABATEMENT OF VIOLATION

(a) Within 30 days after the abatement of the violation, the owner of the property will be notified of the cost of abatement, including admin

costs. A written protest of the objection of the cost may be sent within 30 days. If the amount due is not paid within a timely manner as determined by the decision of the Municipality or by the expiration of the time in which to file an appeal, the charges shall become a special assessment against the property and shall constitute a Municipal lien on the property for the amount of the assessment.

(b) Any person violating any of the provisions of this Article shall become liable to the Municipality by reason of such violation. The liability should be paid in not more than 12 equal payments. Interest rate of 12% per year will be assessed on the balance beginning on the 1st day following the discovery of the violation.

942.14 - INJUNCTIVE RELIEF

It is unlawful for any person to violate any provision or fail to comply with any part of the requirements of this Article. If a violation occurs or continues to occur, the Municipality may petition for a preliminary or permanent injunction restraining the person from activities which would create further violations for compelling that person to perform abatement or remediation of the violation.

942.16 – VIOLATIONS DEEMED AS PUBLIC NUSIANCE

In addition to the enforcement processes and penalties, any condition caused or permitted to exist in violation of any of the provisions in this Article is a threat to public health, safety, and welfare, and is deemed or declared a public nuisance, may be summarily abated or restored at the violators expense. Civil action to abate, enjoin, or otherwise compel the cessation of such nuisance may be taken.

942.17 - CRIMINAL PROSECUTION

Any person who violates or continues to violate any section of Article 942 shall be liable to criminal prosecution to the fullest extent of the law and will be subject to a criminal penalty of \$1,000 per violation per day and/or imprisonment for a period of time not to exceed 90 days.

942.18 – ATTORNEY FEES AND COSTS

The Municipality may recover all attorney's fees, court costs, and other expenses associated with enforcement of this Article, either criminal or civil, including sampling and monitoring expenses or other costs of investigation.

942.19 – REMEDIES NOT EXCLUSIVE

The remedies listed in this Article are not exclusive of any other remedies available under any applicable federal, state, or local law and it is within the discretion of the Municipality to seek cumulative remedies.

<u>943.06 – PENALTIES</u>

(a) Any person, partnership or corporation who or which has violated the provisions of this Ordinance shall, upon being found liable therefore in a civil enforcement proceeding commenced by the Municipality, pay a judgement of not more than one thousand dollars (\$1,000.00). No judgement shall commence or be imposed, levied or payable until the date of the determination of a violation by the district justice. If the defendant neither pays nor timely appeals the judgement, the Municipality may enforce the judgement pursuant to the applicable rules of civil procedure. Each day that a violation continues shall constitute a separate violation, unless the district justice determining that there has been a violation further determines that there has been a good faith basis for the person, partnership or corporation violating the Ordinance to have believed that there was no such violation, in which event there shall be deemed to have been only one such violation. The Court of Common Pleas, upon petition, may grant an order of stay, upon cause shown, tolling the per diem judgement pending a final adjudication of the violation and judgement.

Meeting Date:	July 26, 2016
Project Name:	Public Meeting - Green Infrastructure Planning for City of York
Prepared by:	Downtown Inc
Meeting Location:	York City Hall Building
Participants:	25 members of the general public, Tom Austin, Ophelia Chambliss, Karla
	Farrell Tim Fulton Jim Gross Tim Miller Jeff Shue, Adam Walters

Summary:

After a brief introduction about the meeting from Tim Miller, a presentation was given by Jeff Shue to highlight the Five Green Action Planning sites throughout the City of York. The remainder of the meeting was set up to be interactive, and attendees were given the opportunity to move from station to station and converse one on one with the planning team about the projects in which they had the most interest. A short, paper survey was collected at the conclusion of the meeting to get an idea of which projects they see as highest priority as well as receive suggestions and concerns about moving these projects forward. One goal of this public meeting was to bring attention to the five sites throughout the City that had been chosen for environmental remediation purposes. Overall, the responses that were collected from the group were positive (8 of the 25 attendees responded to the survey). People were especially excited about the environmental improvements, the Trail extension, and Lafayette Plaza.

		Project Pri 8 respon	oritization ses total		
Project Order of Importance	1	2	3	4	Standard Scores
GAP	2	i	3	2	2.38
Multimodal Connectors	0	2	2	4	1.75
Trail Extension	6	t –	1	0	3.63
Lafayette Plaza	0	4	2	2	2.25

Some of the concerns:

- Do a better job of presenting plans to/engaging with the broader public (especially around Memorial Park)
- Are we working closely with Army Corp of Engineers
- Some people wanted to see individual project presentations
- What is going to be the cost/strategy to maintain these new spaces?

Some suggestions:

- Two-way Market St.
- Reach out to Rotary Club and adjacent land users as well as business owners more broadly

MCM #3 Appendix

- MCM #3 Project Plan
- BMP 3.1 Attachments
 - Illicit Discharge Standard Operating Procedure
 - 2016-2017 Priority Outfall List
- BMP 3.2 Attachments
 - York City Outfall Maps 1-6
 - York City Outfall Maps 1-7
- BMP 3.3 Attachments
 - York City Storm Sewer Map
- BMP 3.4 Attachments
 - April to June 2016 Illicit Discharge Quarterly Report
 - July to September 2016 Illicit Discharge Quarterly Report
 - October to December 2016 Illicit Discharge Quarterly Report
 - January to March 2017 Illicit Discharge Quarterly Report
 - Outfall Field Inspections
- BMP 3.5 Attachments
 - Letter from City's Engineer to Accompany SWMO Submission, June 23, 2016
 - City of York Stormwater Management Ordinance
- BMP 3.6 Attachments
 - Illicit Discharge Location Map
 - Illicit Discharge Incident Log

MCM #3 Project Plan

• BMP 3.1

Description:

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

Measurable Goal:

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

Action Plan:

1) Procedures for identifying priority areas

A list of Priority Outfalls was identified on Attachment 12A in the 2012-13 Annual Report. This list is reviewed annually and outfalls will be added or removed from this list based on the results of field inspections. The 2016-2017 Priority Outfall List is attached to this Appendix. The MS4 Coordinator is responsible for maintaining this list.

2) Procedures for screening outfalls during various seasonal conditions

The City has created an Illicit Discharge Field Inspection Standard Operating Procedure which addresses this requirement. The City utilizes staff from their sanitary sewer department to complete field inspections. Because of the large number of outfalls in the City's system and because this staff must schedule these screenings with respect to all of their other responsibilities, the screenings naturally occur during different times of the year, over various seasons.

3) Procedures for identifying a source of an illicit discharge

The City has created an Illicit Discharge Field Inspection Standard Operating Procedure which addresses this requirement. The City will rely on the IDDE Manual as a backup document for any situation which isn't specifically covered by their Procedure.

4) Procedures for eliminating an illicit discharge

The City has created an Illicit Discharge Field Inspection Standard Operating Procedure which addresses this requirement. The City will rely on the IDDE Manual as a backup document for any situation which isn't specifically covered by their Procedure.

5) Procedures for assessing the potential for illicit discharges caused by the interaction of sewage disposal systems.

Properties within the City of York are serviced by a public sanitary sewer system. Because this is not a combined system and on lot septic systems are also not currently being utilized, the potential for sewage related illicit discharges is very minimal.

6) Mechanisms for gaining access to private properties

Stormwater easements and O&M agreements are being executed and recorded with all new Subdivision Plans, Land Development Plans, and Stormwater Management Site Plans. The City shall identify any locations where legal access is a concern and work to establish an easement. City crews do not currently have any issues with gaining access to City owned facilities.

7) Procedures for program documentation, evaluation, and assessment. Members of the York City MS4 Taskforce will review IDDE inspection data and procedures annually, at a minimum.

• BMP 3.2

Description:

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

Measurable Goal:

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

The MS4 Coordinator is responsible for maintaining the City's outfall mapping. This mapping will be updated as infrastructure projects are completed or additional outfalls are discovered in the field.

• BMP 3.3

Description:

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

Measurable Goal:

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

Action Plan:

The MS4 Coordinator is responsible for maintaining the City's storm sewer mapping. This mapping will be updated as infrastructure projects are completed or additional facilities are discovered in the field.

• BMP 3.4

Description:

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

Measurable Goal:

For all permittees, outfall inspections need to be prioritized according to the perceived chance of illicit discharges within the outfall's contributing drainage area. Observations of each outfall shall be recorded each time an outfall is screened, regardless of the presence of dry weather flow. Proper quality assurance and quality control procedures shall be followed when collecting, transporting or analyzing water samples. All outfall inspection information shall be recorded on the Outfall Reconnaissance Inventory/Sample Collection field sheet excerpted from the Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments (CWP, October 2004). Adequate written documentation shall be maintained to

justify a determination that an outfall flow is not illicit. If an outfall flow is illicit, the actions taken to identify and eliminate the illicit flow also shall be documented.

Action Plan:

1) Every regulated outfall must be screened at least once during the permit coverage term. The MS4 Coordinator will complete the required annual screenings. Screenings shall follow the Illicit Discharge Field Inspection Standard Operating Procedure and all procedures identified as part of BMP 3.1.

2) Outfall Inspection Timing

The MS4 Coordinator will perform inspections at different times of the year. Because of the large number of outfalls in the City's system, the screenings will occur during different times of the year, over various seasons.

3) Outfall Inspection Summary

The MS4 Coordinator is responsible for completing IDDE Quarterly Summary Report to track inspections and log complaints related to illicit discharges. These reports are all included in the City's MS4 Annual Reports.

• BMP 3.5

Description:

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

Measurable Goal:

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

Action Plan:

The City adopted an ordinance consistent with the York County Model Act 167 Ordinance on September 20, 2011. Article 942 of this ordinance address detection and elimination of illicit discharges. The City included a copy of the approved Act 167 Stormwater Management Ordinance in the 2012-2013 MS4 Annual Report. In the event this ordinance is amended or replaced, a copy of the new ordinance will be forwarded to DEP and included in the City's Annual Report.

• BMP 3.6

Description:

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

Measurable Goal:

During each year of permit coverage, appropriate educational information concerning illicit

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

1) Illicit Discharge System

The MS4 Coordinator is responsible for receiving, documenting, and routing all complaints to the proper agency or staff for corrective actions. The City utilizes a compliant flow chart which is attached to this plan. Utilization of White Rose TV and the City website, and social media pages are effective means of notifying the public of this system.

2) Illicit Discharge Education

Methods of reporting an illicit discharge are by telephone at (717) 324-6532 or by email at Stormwater@yorkcity.org. This contact information is provided under the Stormwater Management section of the City's Website and advertised on the local community television station, White Rose Community Television, and through the Stormwater social media website.

City of York, Pennsylvania Municipal Separate Storm Sewer System (MS4) Stormwater Management Program (NPDES PAG133596)

MCM#3 – ILLICIT DISCHARGE DETECTION AND ELIMINATION STANDARD OPERATING PROCEDURE

Last revised: 2/13/2015

Prepared by City of York, Pennsylvania Department of Public Works

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Appendices

Appendix A: Outfall Inspection Form Appendix B: Dry Weather Testing Form Appendix C: Illicit Discharge Determination Form Appendix D: Public Complaints Flow Chart

Acronyms

- **<u>BMP</u>** Best Management Practice
- **<u>IDDE</u>** Illicit Discharge Detection and Elimination
- MCM Minimum Control Measure
- MEP Maximum Extent Practicable
- MIPP Municipal Industrial Pretreatment Program
- MS4 Municipal Separate Storm Sewer System
- **<u>NPDES</u>** National Pollution Discharge Elimination System
- **PADEP** Pennsylvania Department of Environmental Protection
- **<u>SOP</u>** Standard Operating Procedure
- <u>USEPA</u> United States Environmental Protection Agency

MS4 NDPES Permit Definitions

Outfall: a point source as defined by 40 CFR §12.2 is the point where an MS4 discharges stormwater to other surface waters of the Commonwealth. This does not include open conveyances connecting two municipal separate storm sewers, or pipes, tunnels or other conveyances which connect segments of the same stream and are used to convey waters of the Commonwealth (40 CFR §122.26.b.9)."

Point Source: as defined by 25 Pa. Code §92.a.2, any discernible, confined, and discrete conveyance, including but not limited to, any pipe ditch channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated aquatic animal production facility, concentrated animal feeding operation, vessel or other floating craft, from which pollutants are or may be discharged."

1 MCM 3 - Illicit Discharge Detection and Elimination

1.1 Introduction

The City of York's entire stormwater management program, which includes activities beyond the scope of this SOP, must:

- Reduce the discharge of pollutants to the "maximum extent practicable" (MEP)
- Protect water quality, and
- Satisfy the appropriate water quality requirements of the federal Clean Water Act

This SOP explains the illicit discharge detection and elimination (IDDE) methodologies as required by the City of York General MS4 NPDES permit. Generally, an illicit discharge is any discharge to the storm sewer system that is not stormwater. The following sections of the permit reference the most pertinent IDDE requirements:

- Authorization to Discharge, General Permit Coverage and Limitations regarding stormwater and non-stormwater discharges.
- Part A, Section 1 definitions of dry weather, illicit connection, illicit discharge, municipal separate stormwater sewer, outfall, point source, pollutant, pollution, storm sewershed, stormwater, stormwater management program, surface waters, and waters of the Commonwealth.
- Part B, Section 1.k regarding test procedures.
- Part B, Section 1.n regarding duty to take all reasonable steps to minimize or prevent any discharge in violation of the MS4 permit that has a likelihood of adversely affecting human health or the environment.
- Part B, Section 3.a regarding records of field investigations.
- Part B, Section 3.b regarding records retention.
- Appendix A, MCM#3, BMP1 requiring development and implementation of a written IDDE program.
- Appendix A, MCM#3, BMP2 requiring, developing and maintaining a map of the stormwater system which shows all outfalls and names of all surface waters of the Commonwealth.
- Appendix A, MCM#3, BMP3 requiring, updating and maintaining a map which shows the entire storm sewer collection system, including roads, inlets, piping, swales, catch basins, channels, basins and any other features of the storm sewer system including municipal boundaries and/or watershed boundaries.
- Appendix A, MCM#3, BMP4 requiring outfall field screenings.
- Appendix A, MCM#3, BMP6 requiring a stormwater pollution reporting mechanism for the public, responding to complaints, and documenting responses and outcomes.
- Appendix A, MCM#4, BMP4 requiring a means to receive and address complaints from the public regarding construction activities, and tracking responses and outcomes.

The reader is encourage to become familiar with the City of York's MS4 General Permit (W:\WWTP\MIPPLab\MS4\MS4 NPDES PERMIT\2013 MS4 Permit).

This SOP does not address the requirement of Appendix A, MCM#3, BMP5 regarding enactment of a stormwater ordinance to implement and enforce a stormwater management program. The procedure for meeting this requirement is addressed by a separate document, MS4-Stormwater Ordinance Adoption Standard Operating Procedure.

This SOP does not address the requirement of Appendix A, MCM#3, BMP6 regarding educational outreach to public employees, business owners and employees, property owners, the general public, and elected officials about the IDDE program. This requirement is covered under multiple actions under minimum control measures MCM#1, MCM#2, and MCM #6.

1.2 Retention of Records

Records are required to be kept for a minimum of three years, and until at least one year after coverage under the general permit (Part B.3.b) expires. It is recommended that records be kept for a minimum of five years (a rolling five year period); this time frame matches that used by USEPA for program audits. The location of specific IDDE records is described at the end of each section.

1.3 Mapping

The City of York uses ESRI's ArcGIS to manage stormwater system locations and attributes. Map maintenance is ongoing; as stormwater features are discovered and removed, the GIS is updated. The most up-to-date stormwater GIS information is currently located on the Sanitary Sewer Maintenance Supervisor computer; updates are loaded onto the shared City of York ArcGIS system as needed.

1.4 Annual Outfall Field Screening Procedure

Outfall field screenings (inspections) must occur during 'dry weather' which is defined by permit as "... a continuous time internal without stormwater producing events that immediately follows an initial 48 hour period with no stormwater producing events."

Inspections should be conducted during varying seasonal and meteorological conditions. Because staff conduct inspections as time is available throughout the year, and not by schedule, this requirement is met.

The streams and stormwater basins in the City of York are listed in Table 1. Local names, instead of Commonwealth designations, are used for clarity.

STREAM	BASIN
Hokes Mill	Hokes Mill Watershed
Tyler Run	Tyler Run Watershed
Willis Run	Willis Run Watershed
Lightners Run	Lightners Run Watershed
Poorhouse Run	Poorhouse Run Watershed
Unnamed Tributary to Mill Creek	Mill Creek Basin Watershed
Codorus Creek	Codorus Creek Mainstem

 Table 1: City of York Streams and Basins

Each outfall shall be screened (inspected) at least once during each permit coverage term; the schedule below meets this requirement. The schedule is subject to change as needs dictate, and is located in W:\WWTP\MIPPLab\MS4\MCMs\MCM_3 IDDE\FIELD SCREENING\OutfallInspectSchedule.

Table 2:	Outfall	Screening	Schedule
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PERMIT	CEDEAN	COMPLETION DATE	
YEAR	SIREAM	INSPECTION 1	INSPECTION 2
2010 11	Hokes Mill	10/6/2011	10/11/2011
2010-11	Tyler Run	9/1/2011, 10/10/2011	10/11/2011
	Willis Run	5/13/2011 -	10/17/2011 -
2011-12		10/17/2011	10/18/2011
	Lightners Run	7/21/2011	10/18/2011
	Poorhouse Run	9/13/2012	9/17/2012
2012-13	Unnamed Tributary to Mill		
	Creek	9/13/2012	9/17/2012

PERMIT	CTDE A M	COMPLETION DATE		
YEAR	SIKEAM	INSPECTION 1	INSPECTION 2	
2013-14	Codorus Creek Mainstem	8/16/2013-3/27/2014		
2014 15	Hokes Mill			
2014-13	Tyler Run			
2015 16	Willis Run			
2013-10	Lightners Run			
	Poorhouse Run			
2016-17	Unnamed Tributary to Mill Creek			
2017-18	Codorus Creek Mainstem			

(Note: The old permit required twice-per-year outfall inspections. The current permit requires onceper-year outfall inspections.)

1.4.1 Preparing for Outfall Field Screenings

Before going out into the field, refer to the ArcGIS map inventory of outfall locations, site photographs, and the previous field screening file for the stream in the schedule. Assemble the following items:

- Maps (digital or paper)
- Dry erase board and dry erase marker for writing the outfall ID, and date and time of inspection
- Camera
- Cellular telephone
- Table of outfalls and attributes
- Outfall field screening sheets and pen
- Waterproof boots and/or waders
- Clip board and scrap paper
- Sample bottles
- Cooler with ice, Ziploc bags (for holding and transporting samples that may be required)
- Personal comfort items (sunscreen, water, bug repellent, snack, hat, etc.)
- Field test kit (The field test kit inventory and Hach instruction book are located at W:\WWTP\MIPPLab\MS4\MCMs\MCM3.IDDE\FIELD SCREENING\FieldTestKit)

Before leaving, let someone know where you are going and when you expect to return.

1.4.2 Conducting Outfall Field Screenings

Complete an outfall field screening sheet for each outfall (Appendix A). Write the date, time, and outfall ID on the dry erase board and photograph the outfall showing the erase board in the frame. Based on site conditions, it may not be possible to include the dry erase board at all outfalls.

If an outfall has flow AND any water testing is to occur, complete a MS4 program dry weather testing bench sheet (Appendix B). Also, write "see bench sheet" in the parameter result area of Section 3 of the field screening outfall investigation form.

The following methodology is required by the permit:

- Step 1: If screening reveals dry weather flow, the discharge from the outfall and the area around the outfall shall be inspected for:
 - \circ Color

- Turbidity
- o Sheen
- Floating or submerged solids
- Adverse effects on plants or animals near the outfall
- o Odor
- Step 2: If an outfall produces odor or if the visual inspection shows any indication that the discharge may contain pollutants, samples of the discharge shall be collected for field and/or lab testing to determine if the flow contains an illicit discharge.
 - Commonly tested parameters may include: pH, fecal coliform, total and residual chlorine, total suspended solids, oil and grease, and color.

Selection of parameters is at the discretion of the investigator and depends on circumstances, site, drainage area, and observations. For example, if sheen is present, sampling for oil and grease would be appropriate. If flow is observed at an outfall with a small drainage area, sampling for residual chlorine may be appropriate.

Note: If chlorine is present, and the discharge is cool, clear, colorless, and odorless with a circumneutral pH, contact The York Water Company for a suspected potable water line break: 717-845-3601, General Information number. Complete an illicit discharge investigation report and attach a copy of the dry weather testing form.

Where monitoring (sampling) occurs, the following information shall be recorded as per permit Part B.3. Completing the MS4 dry weather testing bench sheet and attaching any laboratory results with the field screening outfall inspection report form will meet this requirement.

- Date, exact place and time of sampling, measurements or observations
- Name(s) of individual(s) who performed the sampling, measurements or observations
- Date(s) when analyses were performed
- Names of the individuals who performed the analyses
- Analytical techniques or methods used
- Results of analyses

It is unlikely that the flow amount can be quantified (Section 3 of the form in Appendix A), especially for large outfalls with flap gates or where outfalls are partially submerged. If flow cannot be calculated, indicate this on the form.

The field test kit is intended to be used as a diagnostic tool. However, if it is suspected that enforcement will be pursued, the sample testing must be admissible in court. For court admissible evidence, use approved sample preservation and collection techniques, 40 CFR Part 136 compliant analysis, and correct transport and chain of custody procedures. Outfall sampling is performed by Municipal Industrial Pretreatment Program (MIPP) staff or the Sanitary Sewer Maintenance Supervisor who are trained in sampling protocol and methodology. Wastewater treatment plant laboratory staff are also trained in sampling protocol and methodology.

Attach the MS4 program dry weather testing form and any laboratory analyses to the field screening outfall investigation form. Information may also be copied and attached to an illicit discharge determination form and/or to the priority outfall inspection file, depending upon findings.

If observation and/or test results indicate an illicit discharge, follow the procedure under Section 1.6.

1.4.3 Record Keeping

Assemble all materials for the file: make the file audit ready. Annual outfall screening inspection sheets are located in the MIPP MS4 filing cabinet. Title the files with the appropriate year, stream/basin, and the "file number of total number of files" convention. The paper file should include: map(s), outfall reports in alphanumeric order with any dry weather testing forms sheets and analyses for flowing outfalls attached to the correct outfall inspection sheet, photograph master, and any field notes.

Communicate any GIS mapping system update needs to the Sanitary Sewer Maintenance Supervisor, who currently manages these updates.

Create a photography master file in Word: two columns, generally three photos to a column, date and time and ID under each photograph, and header indicating permit year and stream/basin.

Scan the outfall screening folders and save to

W:\WWTP\MIPPLab\MS4\MCMs\MCM3.IDDE\FIELD SCREENING. The scanned file will be submitted as supplemental information with the City of York MS4 annual report.

The digital file will include: outfall attribute spreadsheet (Excel), outfall report scan (pdf), individual photographs (jpeg most likely), and photograph master document (Word).

Update the priority outfall table following the criteria of Section 1.5.1.

1.5 Priority Area Procedure

'Priority areas' are "...areas with a higher likelihood of illicit discharges, illicit connections or illegal dumping. They may include areas with older infrastructure, a concentration of high-risk activities, or past history of water pollution problems" (Permit Appendix A, MCM3, BMP1).

1.5.1 Identifying Priority Areas

An outfall (and its drainage area) is considered 'high priority' if any one of the following apply:

- Contains dry weather flow (permit Appendix A, MCM#3, BMP#4, measureable goal paragraph 2)
- Excessive damage, sediment deposition, flow problems, and/or erosion that are chronic
- Evidence of illegal dumping (chronic)
- History of public complaint
- Field screening shows pollutants attributable to illicit discharge and not natural sources (for example, fecal coliform from a sewage source, not a pond with waterfowl)
- Illegal connection history

Conversely, an outfall (and its drainage area) is removed from the priority outfall list when:

- The outfall does not contain dry weather flow/dry weather flow is not continuous
- There is no chronic damage, deposition, flow issues, etc.
- Illegal dumping is not evident
- The outfall no longer has a relatively recent history of public complaint
- The pollutant source has been removed
- Field screening shows pollutants are non-existent or are due to natural causes
- An illegal discharge or connection was eliminated

A list of priority outfalls is located in WWTP\MIPPLAB\MS4\MCM3\Field Screening\PriorityOutfall. This list must be updated at least annually; in reality, it is constantly updated based on illicit discharge events, and the results of outfall screenings. Priority outfalls are:

- added to the list when they are discovered through the illicit discharge detection and elimination process (i.e., through public complaint, discovery by maintenance crews, inspections, etc.), and
- removed from the list when issues are addressed by corrective action, or the criterion for which it was placed on the list is removed.

1.5.2 Priority Outfall Inspections

 $\label{eq:priority} Priority outfall inspections must occur at least annually under permit. Retrieve the priority outfall list from W:\WWTP\MIPPLab\MS4\MCMs\MCM3.IDDE\FIELD$

SCREENING\PRIORITY.OUTFALL\PriorityOutfallList. The 'priority outfall' tab is the current on-going list tracking priority outfalls: it also contains a history of when outfalls were added and removed from the list. An explanation of how to use the tab and enter data in the tab is found in the 'EntryKey' tab.

To create the list used for inspecting priority outfalls, follow the instructions on the '2014-15PriorityInspectionList' tab (first three rows, red text). Bring this list with you in the field. You will create a tab for inspection use each permit year.

For reference, the spreadsheet also contains tabs with the priority outfall criteria, current permit requirements related to priority outfalls, and old permit requirements.

Field inspect each outfall using the procedures of Section 1.4 and the field screening outfall inspection report form in Appendix A and the MS4 dry weather testing form in Appendix B. If illicit discharges are found, follow the illicit discharge procedure below (Section 1.6). Take photographs using the same method as for annual outfall screenings under Section 1.4.2.

Update the priority outfall list ('Priority Outfalls' tab) based on findings following the criteria of Section 1.5.1. For example if an outfall no longer has continuous flow and all tests indicate groundwater, this outfall could be stricken from the list. Conversely, an annual outfall inspection occurring have findings that indicate an outfall should be added to the priority list. Use the notes columns in the spreadsheet to document changes.

1.5.3 Record Keeping

Assemble all materials for the file; make the file audit ready. Priority outfall screening inspection sheets are located in the MIPP MS4 filing cabinet. Title the files with the appropriate year and the file number of total number of files" convention. The paper file should include: field working table, outfall reports in alphanumeric order with any bench sheets and analyses for flowing outfalls attached to the correct outfall inspection sheet, photograph master, and any field notes.

Communicate any GIS mapping system update needs to the Sanitary Sewer Maintenance Supervisor, who currently manages these updates.

Create a photography master file in Word: two columns, generally three photos to a column, date and time and ID under each photograph, and header indicating permit year and 'Priority Outfall Inspection'.

Scan the priority outfall report packet and save to W:\WWTP\MIPPLab\MS4\MCMs\MCM3.IDDE\FIELD SCREENING\PRIORITY.OUTFALL under the correct permit year folder. The scanned file will be submitted as supplemental information with the City of York MS4 annual report. The digital file will include: the Excel priority outfall table, priority outfall report scan, individual photographs, and photograph master.

1.6 Procedures for Detecting and Eliminating Illicit Discharges

Detecting illicit discharges occurs primarily through three avenues: the annual outfall field inspections and annual priority outfall inspections described above, and illicit discharge event notification from the public, maintenance staff, etc. Once an illicit discharge is detected, the same procedure for elimination is used regardless of how the discharge was found (i.e., inspection, public notification, etc.).

Illicit discharge notifications from the public may be received by City of York staff through the following means:

- City of York website
- email at stormwater@yorkcity.org
- By telephone to the stormwater illicit discharge number (717.812.1444)
- Any City of York office that a resident may contact (i.e., Fire Department, Permits, Planning & Zoning, etc.)
- E911
- In person while staff are performing tasks at any location in the City of York

It is important that the public be able to report illicit discharge concerns through as many avenues as possible. City of York staff are directed to contact MIPP either after the event to submit documentation, or during an event for assistance and documentation. It is fully expected that the Fire and Police Departments will continue to respond to events caused by vehicular accidents, utility accidents, etc. Further, stormwater staff conducting illicit discharge investigations or outfall inspections are not a replacement for emergency responders. The public will continue to submit concerns through the E911 system.

The public complaints protocol is generally described by the following, and by the flow chart in Appendix D. The procedure for eliminating illicit discharges involves any of the following actions, depending on circumstances:

- Public complaint is received through various means, or via staff observation of illicit discharge.
- Complaint is routed to correct responder, an initial site visit is conducted.
- Complaint is also routed to MIPP staff for file documentation.
- If there is an erosion and sediment control issue due to construction, the complaint is routed to the appropriate entity indicated in Table 3.
- The pollutant is abated/mitigated.
- The source of the pollutant is investigated. This may involve MIPP, Zoning, Permits, Codes, and/or Fire and other City departments as needed for abatement and/or enforcement.
- If the source is found, remove and/or correct the illicit discharge. Proceed with stormwater education and/or enforcement as necessary.
- Document all actions for the file.

Some illicit discharge events are one-time events while others may require multiple events to locate or back-track the source. If the pollutant source is located, physical and/or educational means are used to eliminate the source. Staff may need to contact the City Solicitor, Zoning Officer and/or Fire Codes personnel for resolution. A variety of codes can be used to enforce an illicit discharge: the City of York will select the most appropriate tool to acquire compliance. For example, if a Health Code or Fire Code provides a stronger response with a shorter timeline for compliance, the action will be pursued under those codes and not the stormwater code.

If access to private property is required, refer to the Stormwater Ordinance, Section 942.06.B. Document all actions. If the investigator does not have authority to enter private property, contact the Building Code Official who also supervises the Property Code Inspectors. Fire Codes and Police also have authority to enter private property.

Where an illicit discharge source is found, the property owner or user is educated on the adverse effects of stormwater pollutants on the environment, and the City of York and surrounding municipal MS4 permits and stormwater ordinances. Where a pollutant source is not found, the City of York may use an educational door hanger to alert area residents that a pollutant was found in a neighborhood.

Some investigations may warrant inline video inspection, dye testing, smoke testing, and/or access to private property. These tools are also used where fecal coliform analysis or observation indicates contamination form a sewage source.

If the illicit discharge involves sediment, use the following guide in Table 3 to determine the best means for addressing the issue. The list is not exhaustive: contact the City Engineer with questions. For pollutants generated by utility street cuts, generally the Highway Superintendent, contacts the utility and requires abatement: MIPP or Sanitary Sewer Maintenance staff may also contact the utility for abatement.

Earth Disturbance Activity	Jurisdiction for Correction	Telephone
1 acre and greater	York County Conservation District	717-840-7430
Between 5,000 square feet and 1 acre	York County Conservation District	717-840-7430
Less than 5,000 square feet	City of York-Permits, Planning & Zoning	717-849-2256
	City of York-Permits, Planning & Zoning	717-849-2256
Litility street/sidewalls outs	City of York-MIPP	717-324-6590 (c)
Othiny sueer/sidewark cuts	City of York Highman Danastmant	717-849-2320
	City of Tork-righway Department	717-324-6530 (c)

Table 3: Sediment Generated from Earth Disturbing Activities

At times an illicit discharge event may be in "open" status, meaning information is outstanding and the event cannot yet be entered into the tracking database. For example, staff may be waiting for information from another City department regarding abatement actions, enforcement action, etc. Place the event's illicit discharge determination form with any supporting documentation received thus far in the common area file folder named "MS4 Illicit Discharge-incomplete" located in the vertical file organizer adjacent to the MIPP copy machine. When all event information is received, enter the event into the database and file the event in the appropriate quarterly tracking folder (see Section 1.6.3).

1.6.1 Interface between MS4 Program Requirements and PADEP PAG-05 NPDES Permit

The PAG-05 general NPDES permit authorizes the discharge of wastewater from gasoline or other petroleum products contaminated groundwater remediation systems to receiving waters of the Commonwealth. The PAG-05 may not be used for any other type of groundwater remediation project (i.e., chlorinated solvents, etc.). APG-05 sets discharge limitations for certain pollutants. For example the oil and grease instantaneous maximum limit is 30 mg/l and the oil and grease average monthly limit is 15 mg/l. There are also limits for other pollutants. These limits are in direct conflict with the MS4 permit requirements (i.e., allowing pollutants to enter the stormwater system, discharges must be composed entirely of stormwater). However,

PAG-05 documentation is located at W:\WWTP\MIPPLab\MS4\PAG-05 PADEP.

1.6.2 Customer Service

If the public submits a complaint *via* Facebook message, email, or telephone call, respond with an email or voice message that includes: an update on the incident status, incident resolution, and City of York stormwater program information. A template is located at W:\WWTP\MIPPLab\MS4\MCMs\MCM_3 IDDE\IllicitDischarge ADMIN\Template.Public.ThankYou

1.6.3 Record Keeping

ALL illicit discharge investigations are filed and entered into a database, including those investigations that result in a finding of no illicit discharge or a finding where the pollutant source is outside the City of York municipal boundary. The intent is to document all actions under the IDDE program.

For each event, assemble all materials for the file: make the file audit ready. IDDE complaints and events are locate in the MIPP Department MS4 filing cabinet. File events by quarter by year. Each illicit discharge investigation should include: completed Illicit Discharge Determination Form with attached supplemental information (i.e., fire incident response form, maps, test results, chain of custody, field notes, photographs/photograph master, emails, responses from other departments, correspondence to and/or from PADEP, etc.). If photographs were taken, place them in a new digital folder in W:\WWTP\MIPPLab\MS4\MCM3.IDDE\IllicitDischarge EVENTS using the 'year.location' convention.

For the MS4 annual report, scan the reports corresponding to the permit year. The scanned file will be submitted as supplemental information with the City of York MS4 annual report.

Enter the illicit discharge investigation into the spreadsheet located in W:\WWTP\MIPPLab\MS4\MCMs\MCM3.IDDE\IllictiDischargeADMIN\IDDE.Incidents.2014.07_ v3. Enter events using the 'RawData' tab. Do NOT use the 'oldRawData' tab for entry. The 'EntryKey' tab provides instructions for entering illicit discharge data.

At the end of each quarter, generate an illicit discharge quarterly summary report. The report is included in the MS4 annual report and is submitted to the Director of Public Works and the MS4 annual report preparer (currently C S Davidson, Inc.). The Illicit Discharge Quarterly Summary report template is located in W:\WWTP\MIPPLab\MS4\MCM3.IDDE\IllicitDischarge ADMIN\IllicitDischQrtlySummaryReports\1A.MASTERIIIDischQrtlySummaryReport. Since most data entry requirements are self-explanatory, only a few data entry items are discussed below:

- Section I 2b: 'maintenance crews' means stormwater system maintenance crews (i.e., Highway Department). 'Other agencies' means any other city, state, or federal department. 'Public' means any individual, business, or organization using the stormwater hotline or email, E911, etc. For the summaries make sure to include only events meeting the illicit discharge definition within the City of York municipal boundary.
- Section II 2: Abatement means that an entity took action to mitigate or terminate the discharge. Discharges that lessened or stopped on their own are not counted as abated.
- Make a note at the bottom of the page to indicate illicit discharge investigations that resulted in a determination of 'no illicit discharge and to indicate events that were not in the City of York municipal boundary.

1.7 Procedures for Preventing Illicit Discharge

Prevention of illicit discharges may involve physical prevention measures and/or education. Physical prevention measures include modifying site characteristics to prevent impacts to the storm sewer system. This can include providing secondary containment for outdoor storage of flowable materials, disconnecting hard structures from the storm sewer system, redirecting flow away from potential pollutant sources, and preventing erosion, among others. City of York Code requires licensed plumbers to perform all plumbing work: this ensures compliance with health and plumbing codes with the additional benefit of minimizing the risk of sanitary sewer connections to the stormwater infrastructure.

MCM#3, BMP#1 requires "procedures for assessing the potential for illicit discharges caused by the interaction of sewage disposal systems (e.g., on-lot septic systems, sanitary piping) with storm drain systems." There are no known on-lot septic systems within the City of York. The procedures for assessing illicit discharge potential the following activities:

- Assessment *via* observation during annual outfall inspections and annual priority outfall inspections
- Assessment *via* observation during illicit discharge complaint investigation
- Assessment during regular maintenance activities of the Sanitary Sewer Maintenance Department during routine sanitary sewer line televising, cleaning, smoke testing, and maintenance.
- Assessment of industrial properties by MIPP staff during site visits (i.e., chemical storage, secondary containment, etc.).

Education requirements for staff and the public regarding illicit discharges are covered under MCM1, MCM2, and MCM 6.

1.8 IDDE Goals: BMP1-BMP4

Measurable goals are required for each minimum control measure, and should include: the activity or BMP to be completed, a schedule or date of completion, and a quantifiable target to measure progress toward achieving the activity or BMP. Actions under MCM#3 are intended to decrease pollutant loadings to receiving waters, and comply with the requirements of the MS4 permit. The measureable goals under MCM#3 BMP1 through BMP4 are:

- Implement the IDDE program continuously.
- Evaluate and update the IDDE program annually. Assess the program to determine if additional procedures are necessary or existing procedures need modification.
- Evaluate this SOP annually for accuracy.
- Use the IDDE program evaluation for program improvement (for example, response times, prevention efforts, education, etc.)
- Maintain records of all outfall inspections, flows observed, results of field screening and testing, and other follow-up investigation and corrective action work performed under the illicit discharge program.
- Update and maintain the stormwater maps as necessary during each year of coverage under the MS4 permit.
- Accomplish 100% field screening (inspection) of outfalls during the permit coverage term.
- Accomplish 100% annual field screening (inspection) of priority outfalls.
- Abate 100% of illicit discharge incidents that can be abated, and address any non-stormwater discharges.
- Maintain records related to all activities taken under the IDDE program including inspections, sampling, analysis, abatement, and source elimination.
- Summarize the results of outfall inspections and actions taken to remove or correct illicit discharges in periodic reports.
- Respond to citizen complaints within 24 hours maximum (see EPA IDDE fact sheet).
- Eliminate repeat illicit discharge events.
- Remove 100% removal of discovered cross-connections (i.e., sanitary sewer, commercial or industrial process, etc.)
- Maintain an illicit discharge complaint and event database.
- Evaluate the illicit discharge database semi-annually to determine any trends.
- Maintain the GIS stormwater map features and locations continuously.
- Maintain a stormwater ordinance that complies with MS4 permit requirements.
- Maintain MCM#3 documentation in an easy to use "audit ready" format to demonstrate compliance with the MS4 permit.

Appendix A: Outfall Inspection Form **Appendix B:** Dry Weather Testing Form Appendix C: Illicit Discharge Determination Form Appendix D: Public Complaints Flow Chart

date inspected	STATUS	SUB-BASIN	OUTFALL ID	LOCATION DESCRIPTION	REASON FOR DESIGNATION	POTENTIAL POLLUTANT	NOTES	STATUS NOTES	Cheat Sheet closed material shape shape dimension
5/16/2016, 8/24/2016	active	Codorus Creek	CC48	245' N of W Philadelphia St bridge over the Codorus, on west bank	continuous flow, high visibility, history of public complaint	urban*	high visibility outfall and frequent fishing location that receives calls, rear of 221 W Philadelphia St.		closed pipe, brick, circular,single 48" flap gate
8/24/2016	active	Codorus Creek	CC108	swale off Kings Mill Road	splash pad	chlorine	splash pad does not recirc water. Added July 2015. No flow 8/17/2015	needs to be tested for chlorine during flow to determine if this is an issue	closed TCP circular single 30"
8/24/2016	active	Codorus Creek	CC110	swale off Kings Mill Road	2014 illicit discharge	urban*	added in 2014-2015 due to illicit discharge	no flow 8/17/2015	closed TCP circular single 30"
	active	Codorus Creek	CC150B	just W of Grantley ST bridge, to rear of 550-570 W College Av	continuous flow	urban*	groundwater seep. Check during warm weather to see if there is flow. Added in 2013-14 PY due to	flow 3/30/2015. check in summer to potentially remove from list because it is just groundwater. No flow 9/15/2016!! Removed from list.	
9/15/2016							new permit.		closed PVC circular single 12"
9/15/2016	active	Hokes Mill	HM1	near Odeon Field at Codorus Creek	continuous flow	NA	only on list due to continuous flow MCM 3.4	added in 2013-14 PY due to new permit	Closed concrete box single 96" x 72" flap gate
	active	Poorhouse Run	PHR2	main outfall where creek emerges from underground box culvert near City line	continuous flow, high visibility, size of drainage area	urban*	captures flow of entire sub-basin, much of flow is underground	Keep active status until proven that no more incidents will occur.	
8/30/2016									closed concrete box single 11.5' x 10'
11/8/2016	active	Poorhouse Run	PHR36	R bank, drains ball fields, S of Simpson Alley, on rip-rap bank	continuous flow	NA	only on list due to continuous flow MCM 3.4	added in 2013-14 PY due to new permit	closed SLPP circular single 16"
11/8/2016	active	Poorhouse Run	PHR38	R bank up from concrete wall in line-ish with Denver alley, drains ball fields	continuous flow	NA	only on list due to continuous flow MCM 3.4	added in 2013-14 PY due to new permit	closed CMP circular single 24"
11/8/2016	active	Poorhouse Run	PHR50	rear of shopping plaza (behind the old Weis on Edgar Street)	continuous flow	NA	only on list due to continuous flow MCM 3.4	added in 2013-14 PY due to new permit	closed RCP circular single 42"
11/8/2016	active	Tyler Run	TR7	under W Jackson St bridge, on E side	continuous flow	NA	only on list due to continuous flow MCM 3.4		closed RCP circular single 36"

* Where 'urban' refers to pollutants such as litter, substances from street runoff, automotive fluids, illegally dumped items, and similar pollutants.

Sources: Outfall inspections and illicit discharge determination sheets.

CC150B will be removed from the list for next permit year: no flow 9/15/2016.









Feet

Index Map











CITY OF YORK YORK COUNTY, PENNSYLVANIA

SHEET NUMBER 2,000 **B1**



Feet

1,000

1,500







Legend





Document Path: K:\040752100\gisdata\inhouse\MXD\York City Outfall Map.mxd Date: 6/20/2017

OUTFALL MAP CITY OF YORK YORK COUNTY, PENNSYLVANIA



Feet

1,000

1,500

2,000









OUTFALL MAP CITY OF YORK YORK COUNTY, PENNSYLVANIA

1,500 1,000

2,000

SHEET NUMBER **B3**















OUTFALL MAP CITY OF YORK YORK COUNTY, PENNSYLVANIA

1,500 1,000

SHEET NUMBER **C1**

Feet

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Legend





Document Path: K:\040752100\gisdata\inhouse\MXD\York City Outfall Map.mxd Date: 6/20/2017

OUTFALL MAP CITY OF YORK YORK COUNTY, PENNSYLVANIA

















OUTFALL MAP CITY OF YORK YORK COUNTY, PENNSYLVANIA



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CITY OF YORK YORK COUNTY, PENNSYLVANIA



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Feet









OUTFALL MAP CITY OF YORK YORK COUNTY, PENNSYLVANIA



Feet

1,000

1,500

2,000







Reporting Period:		April - June	2016		
	I. Outfall Scre	ening Activities Summary			
Number of outfalls screened: Number of priority outfalls screened: Total number of outfall inspections:	0 0 0	Number of outfalls with f (outfalls with illicit discha	low: rge):	<u>0</u> 0	
	Illicit Disccarge	Investigation Summary			1
a Summary					
Investigations With Illicit Discharge Investigations Without Illicit Discharge Total Illicit Discharge Investigations	7 2 9				
b. Reported to the City of York by					
Maintenance Crews IDDE Inspector City Employee - Other		Public Government - Non-City	<u>6</u> 1	Non-Profit Other	2
c. Type of Pollutant or Potential Pollutant					
Automotive Liquids Building/Sidewalk Washwater	5	Groundwater-sump-footi Industrial Wastes Medical Wastes	ng drain	Pet Wastes Plumbing tracer dye Potable Water	1
Concrete, cutting slurry/washwater Debris - construction Debris - other		Minor auto accident Naturally Occurring None		Sediment Sewage Softened Water	2
Food Wastes Glue / pastes / ashesives Grass clippings, etc.		Other Washwater Paint Paving sealant		Unknown Vehicle cleaning wash	1 water
d. Pollutant source					
unknown industrial commerical	5	residential construction site transportation	<u>1</u> 2	municipality minor auto accident other	_
e. Discharge abatement					
Yes No Percent of BATEABLE EVENTS ABATED	3 3	Abatement Not Required Unknown	3		
f. Enforcement Activity					
None Verbal Notice Warning Notice Administrative Action	4 3 1 1	Administrative Action wit Legal Action Unknown	h Cost Recov	very	
Respmnsible Party Fpound					
Yes	6	No	2	N/A	1

Reporting Period:		July - September	2016				
I. Outfall Screening Activities Summary							
Number of outfalls screened: Number of priority outfalls screened:	<u>0</u> 6	Number of outfalls with flow (outfalls with illicit discharg	w:	<u>3</u> 0			
Total number of outfall inspections:	6			_			
н.	Illicit Disccarge	Investigation Summary					
a. Summary							
Investigations With Illicit Discharge	6						
Investigations Without Illicit Discharge	1						
Total Illicit Discharge Investigations	7						
b. Reported to the City of York by							
Maintenance Crews		Public	4	Non-Profit			
IDDE Inspector		Government - Non-City	1	Other	1		
City Employee - Other	1						
c. Type of Pollutant or Potential Pollutant							
Automotive Liquids	3	Groundwater-sump-footing	g drain	Pet Wastes			
Building/Sidewalk Washwater		Industrial Wastes		Plumbing tracer dye			
Concrete cutting clurps/washwater		Minor auto accident		Polable Waler			
Debris - construction		Naturally Occurring		Sewage	1		
Debris - other		None		Scwage Softened Water	T		
Drywall compound		None		Swimming Pool			
Food Wastes	1	Other Washwater		Unknown	1		
Glue / pastes / ashesives	<u> </u>	Paint		Vehicle cleaning wash	water		
Grass clippings, etc.	1	Paving sealant					
d. Pollutant source							
unknown	1	residential	2	municipality			
industrial		construction site	1	minor auto accident			
commerical	2	transportation		other	1		
e. Discharge abatement							
Yes	4	Abatement Not Required	2				
No	1	Unknown					
Percent of BATEABLE EVENTS ABATED							
f. Enforcement Activity							
None	5	Administrative Action with	Cost Recove	ery			
Verbal Notice	1	Legal Action					
Warning Notice		Unknown					
Administrative Action							
Responsible Party Found	-						
Yes	5	No	2	N/A			

Reporting Period:		October - December 201	6
	L Outfall Scr	eening Activities Summary	
Number of outfalls screened: Number of priority outfalls screened: Total number of outfall inspections:	14 4 18	Number of outfalls with flow: (outfalls with illicit discharge):	<u>4</u> <u>0</u>
١١.	Illicit Disccarge	e Investigation Summary	
a. Summary			
Investigations With Illicit Discharge Investigations Without Illicit Discharge Total Illicit Discharge Investigations	3 1 4		
b. Reported to the City of York by			
Maintenance Crews IDDE Inspector City Employee - Other		Public 2 Government - Non-City	Non-Profit Other 2
c. Type of Pollutant or Potential Pollutant			
Automotive Liquids Building/Sidewalk Washwater	3	Groundwater-sump-footing drain Industrial Wastes Medical Wastes	n Pet Wastes Plumbing tracer dye Potable Water
Concrete, cutting slurry/washwater Debris - construction Debris - other		Minor auto accident Naturally Occurring None	Sediment 1 Sewage Softened Water
Food Wastes Glue / pastes / ashesives Grass clippings, etc.		Other Washwater Paint Paving sealant	Unknown Vehicle cleaning washwater
d. Pollutant source			
unknown industrial commerical	2	residential construction site <u>1</u> transportation	municipality minor auto accident other
e. Discharge abatement			
Yes No Percent of BATEABLE EVENTS ABATED	2 2	Abatement Not Required Unknown	
f. Enforcement Activity			
None Verbal Notice Warning Notice Administrative Action	3 1	Administrative Action with Cost Legal Action Unknown	Recovery
Respmnsible Party Fpound			
Yes	2	No	2 N/A

Reporting Period:		January-March	2017						
L Outfall Screening Activities Summary									
Number of outfalls screened: Number of priority outfalls screened: Total number of outfall inspections:	100 0 100	Number of outfalls with flow (outfalls with illicit discharge	::):	<u>3</u> 7					
	II. Illicit Disccarge Investigation Summary								
a. Summary									
Investigations With Illicit Discharge Investigations Without Illicit Discharge Total Illicit Discharge Investigations	18 1 25								
b. Reported to the City of York by									
Maintenance Crews IDDE Inspector City Employee - Other	<u> </u>	Public <u>1</u> Government - Non-City <u>1</u>	1	Non-Profit Other	2				
c. Type of Pollutant or Potential Pollutant									
Automotive Liquids Building/Sidewalk Washwater	5	Groundwater-sump-footing o Industrial Wastes Medical Wastes	drain	Pet Wastes 1 Plumbing tracer dye Potable Water					
Concrete, cutting slurry/washwater Debris - construction Debris - other Drywall compound	<u> </u>	Minor auto accident Naturally Occurring None	:	Sediment Sewage 1 Softened Water Swimming Pool	3 7				
Food Wastes Glue / pastes / ashesives Grass clippings, etc.	2	Other Washwater Paint Paving sealant	:	1 Unknown Vehicle cleaning wash	6 nwater				
d. Pollutant source									
unknown industrial commerical	6 2 2	residential <u>9</u> construction site <u>1</u> transportation utility	9 	municipality minor auto accident other	1 2 3				
e. Discharge abatement									
Yes No Percent of BATEABLE EVENTS ABATED	9 7	Abatement Not Required Unknown Ongoing	2 1 6						
f. Enforcement Activity									
None	13	Administrative Action with Co	ost Recove	ery	1				
Verbal Notice Warning Notice Administrative Action	9 2	Legal Action Unknown			2				
Respmnsible Party Fpound									
Yes	16	No	8	N/A	1				

OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data

Subwatershed:			Outfall ID: PHR62		
Today's date: 01/09/17			Time (Military): 1:25PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 23		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0		
Latitude: 39.9512587 Longitude: -		76.7068530	GPS Unit:	GPS LMK #:	
Camera:			Photo #'s:		
Land Use in Drainage Area (Check all the	at apply):				
Industrial			Open Space		
🔲 Ultra-Urban Residential			Institutional		
Suburban Residential			Other:		
			Known Industries:		
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

LOCATION	MATER	IAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions:	In Water: No Partially Fully With Sediment: No Partially Fully
♥ Open drainage	Concrete Earthen rip-rap Other:		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when o	collecting sam	ıples)			
Flow Present?	Yes No) If No, Sk	ip to Section 5			
Flow Description (If present)	Trickle	Aoderate	Substantial			

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS						
P	ARAMETER	RESULT	UNIT	EQUIPMENT		
Flow #1	Volume		Liter	Bottle		
I	Time to fill		Seconds			
	Flow depth		Inches	Tape measure		
Flow #2	Flow width		Inches	Tape measure		
-	Measured length		Inches	Tape measure		
	Time of travel		Seconds	Stop watch		
Temperature			۴	Thermometer		
	рН		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? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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

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OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data

Subwatershed:			Outfall ID: WR81		
Today's date: 01/09/17			Time (Military): 1:45PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 25 Rainfall (in.): Last 24			ours: 0 Last 48 hours: 0		
Latitude: 39.9759373 Longitude: -7		76.7591000	GPS Unit:	GPS LMK #:	
Camera:			Photo #'s:		
Land Use in Drainage Area (Check all tha	at apply):				
☐ Industrial			Open Space		
Ultra-Urban Residential			Institutional		
Suburban Residential			Other:		
Commercial			Known Industries:		
Notes (e.g., origin of outfall, if known):	York City				

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED	
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 18	In Water: No Partially Fully With Sediment: No Partially Fully	
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:		
In-Stream	(applicable when collecting samples)						
Flow Present?	Yes No If No, Skip to Section 5						
Flow Description (If present)	Trickle	Moderate	Substantial				

Section 3: Quantitative Characterization

	FIELD DATA FOR FLOWING OUTFALLS							
PARAMETER		RESULT	UNIT	EQUIPMENT				
Flow #1	Volume		Liter	Bottle				
_	Time to fill		Seconds					
	Flow depth		Inches	Tape measure				
Flow #2	Flow width		Inches	Tape measure				
	Measured length		Inches	Tape measure				
	Time of travel		Seconds	Stop watch				
Temperature			۴	Thermometer				
рН			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? 7 Yes 7 No (If No, Skip to Section 5)

X (1-3)	distance	3 - Clearly visible in outfall flow	🗌 3 - Opaque	 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
TIVE SEVERITY INDE	2 - Easily detected	☐ 2 - Clearly visible in sample bottle	🗖 2 - Cloudy	2 - Some; indications of origin (e.g., possible suds or oil sheen)
RELA	🗖 1 - Faint	☐ 1 - Faint colors in sample bottle	🗖 1 - Slight cloudiness	1 - Few/slight; origin not obvious
DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Yellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:
CHECK if Present				
INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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

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OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data

Subwatershed:			Outfall ID: WR61		
Today's date: 01/09/17			Time (Military): 1:55PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 25 Rainfall (in.): Last 24 hour		rs: 0 Last 48 hours: 0			
Latitude: 39.9767742	titude: 39.9767742 Longitude: -76.7570650		GPS Unit:	GPS LMK #:	
Camera:			Photo #'s:		
Land Use in Drainage Area (Check all that apply):					
☐ Industrial			Open Space		
Ultra-Urban Residential			Institutional		
Suburban Residential			Other:		
Commercial			Known Industries:		
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH.	APE	DIMENSIONS (IN.)	SUBMERGED	
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	☐ Single ☑ Double ☐ Triple ☐ Other:	Diameter/Dimensions: 48 x 60	In Water: No Partially Fully With Sediment: No Partially Fully	
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:		
In-Stream	(applicable when collecting samples)						
Flow Present?	Yes N	o <i>lf No, Sk</i>	(ip to Section 5				
Flow Description (If present)	Trickle	Moderate	Substantial				

Section 3: Quantitative Characterization

	FIELD DATA FOR FLOWING OUTFALLS							
PARAMETER		RESULT	UNIT	EQUIPMENT				
Flow #1	Volume		Liter	Bottle				
_	Time to fill		Seconds					
	Flow depth		Inches	Tape measure				
Flow #2	Flow width		Inches	Tape measure				
	Measured length		Inches	Tape measure				
	Time of travel		Seconds	Stop watch				
Temperature			۴	Thermometer				
рН			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? 7 Yes 7 No (If No, Skip to Section 5)

X (1-3)	distance	3 - Clearly visible in outfall flow	🗌 3 - Opaque	 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
TIVE SEVERITY INDE	2 - Easily detected	☐ 2 - Clearly visible in sample bottle	🗖 2 - Cloudy	2 - Some; indications of origin (e.g., possible suds or oil sheen)
RELA	🗖 1 - Faint	☐ 1 - Faint colors in sample bottle	🗖 1 - Slight cloudiness	1 - Few/slight; origin not obvious
DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Yellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:
CHECK if Present				
INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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

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Photo Log

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OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data

Subwatershed:			Outfall ID: WR66		
Today's date: 01/09/17			Time (Military): 2:15PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 25 Rainfall (in.): Last 24 hour		rs: 0 Last 48 hours: 0			
Latitude: 39.9794711	itude: 39.9794711 Longitude: -76.7586552		GPS Unit:	GPS LMK #:	
Camera:			Photo #'s:		
Land Use in Drainage Area (Check all tha	at apply):				
☐ Industrial			Open Space		
Ultra-Urban Residential			Institutional		
Suburban Residential			Other:		
Commercial			Known Industries:		
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

LOCATION	MATER	IAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 18	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when o	collecting sam	ıples)			
Flow Present?	Yes No) If No, Sk	ip to Section 5			
Flow Description (If present)	Trickle	/oderate	Substantial			

Section 3: Quantitative Characterization

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
Time of travel		Seconds	Stop watch	
Temperature			۴	Thermometer
	рН		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? TYes TNO (If No, Skip to Section 5)

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

X (1-3)	distance	a - Clearly visible in outfall flow	🗖 3 - Opaque	3 - Some; origin clear (eg, obvious oil sheen, suds, or floating sanitary materials)
TIVE SEVERITY INDE	2 - Easily detected	2 - Clearly visible in sample bottle	🗖 2 - Cloudy	☐ 2 - Some; indications of origin (e.g., possible suds or oil sheen)
RELA	🗖 1 - Faint	1 - Faint colors in sample bottle	🗖 1 - Slight cloudiness	1 - Few/slight; origin not obvious
DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Yellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:
CHECK if Present				
INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are obvical indicators that are not related to flow present? TAYes In No. 34/04 54/04 65-54/04 69

	ar are not related to mow present:		
INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Corrosion	
Deposits/Stains	D	🖉 Oily 📕 Flow Line 📕 Paint 😺 Other: sediment	Buildup right outside of outfall of rock sediment and leaves. Water will backwash and have a hard time flowing into rest of drainage.
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		📙 Brown 📃 Orange 📘 Green 📃 Other:	
Section 6: Overall C	Dutfall Characterization		
Unlikely	:ential (presence of two or more indi	icators) Suspect (one or more indicators with a severity of 3)	ovious
Section 7: Data Col	lection		

			Caulk dam	
			If Yes, type: 🛛 OBM	
	on V		No	
	□ Yes	Flow	□ Yes	
CLIDII 1. Dala COILCEUD	. Sample for the lab?	. If yes, collected from:	8. Intermittent flow trap set?	
5	1	2	e	1

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Sediment and leaves should be removed so water can flow smoothly

Photo Log

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Photo No. 3: image.jpg



Photo No. 2: image.jpg

OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

Section 1: Background Data

Subwatershed:			Outfall ID: WR67		
Today's date: 01/09/17			Time (Military): 2:20PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 24 Rainfall (in.): Last 24 hour		rs: 0 Last 48 hours: 0			
Latitude: 39.9797905	Longitude: -	76.7591718	18 GPS Unit: GPS LMK #:		
Camera:			Photo #'s:		
Land Use in Drainage Area (Check all that apply):					
Industrial			Open Space		
Ultra-Urban Residential			Institutional		
Suburban Residential			Other:		
			Known Industries:		
Notes (e.g., origin of outfall, if known):	York City				

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 36 x 18	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	nples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	tip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

Section 3: Quantitative Characterization

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
Measur	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
Temperature			۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip
Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? TY es No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELA'	TIVE SEVERITY INDEY	((1-3)
Odor		Sewage Rancid/sour Petroleum/gas	🔽 1 - Faint	2 - Easily detected	3 - Noticeable from a distance
Color		Clear Brown Gray Yellow Green Orange Red Other:	☐ 1 - Faint colorsin sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbididy		See severity	🗖 1 - Slight cloudiness	🗖 2 - Cloudy	🗌 3 - Opaque
Floatables -Does Not Include Trash!!		 Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other: 	1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	 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 Arephysical indicators that are not related to flow present? TYes JNo (If No. Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Corrosion	
Deposits/Stains		Oily Flow Line Paint Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		🗖 Brown 📄 Orange 📄 Green 📄 Other:	
Section 6: Overall Out	fall Characterization		

 \Box Potential (presence of two or more indicators) \Box Suspect (one or more indicators with a severity of 3)

Cobvious

Section 7: Data Collection

🗸 Unlikely

		Caulk dam
		МВО
		lf Yes, type:
°N N		٥N
∏ Yes	Flow	T Yes
1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Sediment buildup. Water has to flow up over sediment pile to get to swale.

Photo No. 1: image.jpg









Photo No. 2: image.jpg

Section 1: Background Data

Subwatershed:			Outfall ID: WR68		
Today's date: 01/09/17			Time (Military): 2:20PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown	Form completed by: Lettice Brown	
Temperature (°F): 24		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0		
Latitude: 39.9799589 Longitude: -76.7589627		GPS Unit:	GPS LMK #:		
Camera:		Photo #'s:			
Land Use in Drainage Area (Check all that apply):					
☐ Industrial		Open Space			
Ultra-Urban Residential		Institutional			
Suburban Residential		Other:			
Commercial		Known Industries:			
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel Other:	CMP	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 32	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting samples)					
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

INDICATOR	CHECK IT Present	DESCRIPTION	KELA	ΙΙΥΕ ΣΕΥΕΚΙΙ Υ ΙΝΔΕΧ	(1-3)
Odor		Sewage Rancid/sour Petroleum/gas Sulfide Other:	🔽 1 - Faint	2 - Easily detected	3 - Noticeable from a distance
Color		Clear Brown Gray Vellow Green Orange Red Other:	1 - Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbididy		See severity	🔲 1 - Slight cloudiness	🗖 2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		 Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other: 	1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	 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 Arephysical indicators that are not related to flow present? J Yes I No. *(if No. Skip to Section 6*)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Corrosion	
Deposits/Stains		🗖 Oily 📄 Flow Line 📕 Paint 🔽 Other: Dirt/sediment	Dirt
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		🗖 Brown 🗖 Orange 📕 Green 📄 Other:	
Section 6: Overall Out	fall Characterization		

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

Section 7: Data Collection

🗸 Unlikely

Sample for the lab? Yes No If yes, collected from: Flow Pool Intermittent flow trap set? Yes No If Yes, type:			
Sample for the lab? Tes Ves Vo If yes, collected from: Flow Pool Intermittent flow trap set? Ves No If Yes, type:			BM Caulk dam
Sample for the lab? Sample for the lab? If yes, collected from: Flow Pool Intermittent flow trap set? Yes No			If Yes, type: 🗾 O
Sample for the lab? Yes If yes, collected from: Flow Intermittent flow trap set? Yes	°N D		°N L
 Sample for the lab? If yes, collected from: Intermittent flow trap set? 	☐ Yes	Flow	☐ Yes
	Sample for the lab?	If yes, collected from:	Intermittent flow trap set?

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR69		
Today's date: 02/06/17			Time (Military): 1:00PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown	Form completed by: Lettice Brown	
Temperature (°F): 50		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0		
Latitude: 39.9828212 Longitude: -76.7590812		GPS Unit:	GPS LMK #:		
Camera:		Photo #'s:			
Land Use in Drainage Area (Check all that apply):					
☐ Industrial		Open Space	Open Space		
Ultra-Urban Residential		Institutional			
Suburban Residential		Other:			
Commercial		Known Industries:			
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single	Diameter/Dimensions: 20 x 28	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting samples)					
Flow Present?	Yes N	o <i>If No, Sk</i>	(ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5) ° L

INDICATOR	CHECK if Present		DESCRIP	TION		RELA ⁻	TIVE SEVERITY INDE	((1-3)
Odor		Sewage Sulfide	Rancid/sour P	etroleum/gas		📘 1 - Faint	2 - Easily detected	3 - Noticeable from a distance
Color		Clear Green	Brown C	ed C	Yellow Other:	1 - Faint colors in sample bottle	2 - Clearly visible in sample bottle	☐ 3 - Clearly visible in outfall flow
Turbididy			See sever	ity		🔲 1 - Slight cloudiness	🗖 2 - Cloudy	🗖 3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toi	ilet Paper, etc.)	uds ther:		1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some, origin clear (eg., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? TYES TONO (If No. Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION COMMENTS	
Outfall Damage		Corrosion	
Deposits/Stains		Oily Flow Line Paint Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		
Unlikely	ial (presence of two or more indic	ators) Cuspect (one or more indicators with a severity of 3) Covious	

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

Section 7: Data Collection

🗸 Unlikely

		🗖 Caulk dam
		П овм
		lf Yes, type:
°N N	Pool	°N
∏ Yes	Flow	T Yes
. Sample for the lab?	. If yes, collected from:	. Intermittent flow trap set?
1	2	Ś

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Lots of dead tree roots and vines near outfall. Not effecting runoff flow though



Section 1: Background Data

Subwatershed:			Outfall ID: WR70	
Today's date: 02/06/17			Time (Military): 1:15PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 51		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
atitude: 39.9845256 Longitude: -76.7589303		GPS Unit:	GPS LMK #:	
Camera:		Photo #'s:		
Land Use in Drainage Area (Check all that apply):				
Industrial		Open Space		
Ultra-Urban Residential		Institutional		
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 15	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes V	o <i>lf No, Sk</i>	(ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

	FIELD DATA FOR FLOWING OUTFALLS					
P	ARAMETER	RESULT	UNIT	EQUIPMENT		
Flow #1	Volume		Liter	Bottle		
I	Time to fill		Seconds			
	Flow depth		Inches	Tape measure		
Flow #2	Flow width		Inches	Tape measure		
	Measured length		Inches	Tape measure		
	Time of travel		Seconds	Stop watch		
	Temperature		۴	Thermometer		
	рН		pH Units	Test strip/Probe		
	Ammonia		mg/L	Test strip		

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR71	
Today's date: 02/06/17			Time (Military): 1:15PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 51		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9848281 Longitude: -76.7589040		GPS Unit:	GPS LMK #:	
Camera:		Photo #'s:		
Land Use in Drainage Area (Check all that apply):				
Industrial		Open Space		
Ultra-Urban Residential		Institutional		
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP CMP PVC HDPE Steel Other:	Circular Elliptical Box Other:	☐ Single ✓ Double ☐ Triple ☐ Other:	Diameter/Dimensions: 26 x 42	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:	Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting san	nples)			
Flow Present?	Yes No If No, Sk	cip to Section 5			
Flow Description (If present)	Trickle Moderate	Substantial			

	FIELD DATA FOR FLOWING OUTFALLS					
P	ARAMETER	RESULT	UNIT	EQUIPMENT		
Flow #1	Volume		Liter	Bottle		
I	Time to fill		Seconds			
	Flow depth		Inches	Tape measure		
Flow #2	Flow width		Inches	Tape measure		
	Measured length		Inches	Tape measure		
	Time of travel		Seconds	Stop watch		
	Temperature		۴	Thermometer		
	рН		pH Units	Test strip/Probe		
	Ammonia		mg/L	Test strip		

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected distance	sin 2 - Clearly visible in 3 - Clearly visible in sample bottle outfall flow	liness 2 - Cloudy 3 - Opaque	origin 2 - Some; indications 3 - Some; origin clear of origin (e.g., potrous oil possible suds or oil poss
	🗌 1 - Faint	1 - Faint color sample bottle	🗖 1 - Slight cloud	1 - Few/slight; not obvious
DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Yellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:
CHECK if Present				
INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? TYes JNo (If No. Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		C Spalling, Cracking or Chipping Peeling Paint Corrosion	
Deposits/Stains		Oily Flow Line Paint Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	ffall Characterization		

 \Box Potential (presence of two or more indicators) \Box Suspect (one or more indicators with a severity of 3)

Cobvious

Section 7: Data Collection

🗸 Unlikely

		Caulk dam
		lf Yes, type:
oN 🔰	Pool	٥N
T Yes	Flow	T Yes
. Sample for the lab?	. If yes, collected from:	. Intermittent flow trap set?
1	2	3

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Somedirt buildup inside but water will still flow ok



Section 1: Background Data

Subwatershed:			Outfall ID: WR72		
Today's date: 02/06/17			Time (Military): 1:30PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 51		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0		
Latitude: 39.9849773	Longitude: -	76.7538249	GPS Unit:	GPS LMK #:	
Camera:		Photo #'s:			
Land Use in Drainage Area (Check all that apply):					
Industrial		Open Space			
Ultra-Urban Residential		Institutional			
Suburban Residential			Other:		
			Known Industries:		
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 48	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o If No, Sk	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

	FIELD DATA FOR FLOWING OUTFALLS						
P	ARAMETER	RESULT	UNIT	EQUIPMENT			
Flow #1	Volume		Liter	Bottle			
I	Time to fill		Seconds				
	Flow depth		Inches	Tape measure			
Flow #2	Flow width		Inches	Tape measure			
	Measured length		Inches	Tape measure			
	Time of travel		Seconds	Stop watch			
Temperature			۴	Thermometer			
	рН		pH Units	Test strip/Probe			
	Ammonia		mg/L	Test strip			

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 78 Yes 70 No 11 No, Skip to Section 5)

INDICATOR	CHECK if Present		DESCRI	PTION		RELAT	rive severity index	((1-3)
Odor		Sewage Sulfide	Rancid/sour	Petroleum/g	se	🗌 1 - Faint	2 - Easily detected	a - Noticeable from a distance
Color		Clear Green	Brown C	Gray Red	Yellow Other:	☐ 1 - Faint colorsin sample bottle	2 - Clearly visible in sample bottle	☐ 3 - Clearly visible in outfall flow
Turbididy			See sev	verity		🔲 1 - Slight cloudiness	🗖 2 - Cloudy	🗖 3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (To Petroleum	oilet Paper, etc.)	Suds Other:		1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	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 Arephysical indicators that are not related to flow present? TYES TONO (If No. Skip to Section 6)

COMMENTS						
DESCRIPTION	C Spalling, Cracking or Chipping Peeling Paint Corrosion	Oily FlowLine Paint Other:	Excessive Inhibited	Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	Brown Crange Green Other:	
CHECK if Present						tfall Characterization
INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Out

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

Cobvious

Section 7: Data Collection

🗸 Unlikely

		Caulk dam
		П ОВМ
		lf Yes, type:
°N N	Pool	٥N
∏ Yes	Flow	T Yes
Sample for the lab?	If yes, collected from:	Intermittent flow trap set?
i .	2.	ы

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? There's apipe in the ground that leads to this outfall that is completely open, fall hazard. Photo taken



Section 1: Background Data

Subwatershed:			Outfall ID: WR73		
Today's date: 02/06/17			Time (Military): 1:40PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 51		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0		
Latitude: 39.9856168	Longitude: -	76.7513516	GPS Unit:	GPS LMK #:	
Camera:		Photo #'s:			
Land Use in Drainage Area (Check all that apply):					
Industrial		Open Space			
Ultra-Urban Residential		Institutional			
Suburban Residential			Other:		
			Known Industries:		
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	☐ CMP	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 18	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	nples)			
Flow Present?	Yes N	o <i>If No, Sk</i>	tip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

	FIELD DATA FOR FLOWING OUTFALLS						
P	ARAMETER	RESULT	UNIT	EQUIPMENT			
Flow #1	Volume		Liter	Bottle			
I	Time to fill		Seconds				
	Flow depth		Inches	Tape measure			
Flow #2	Flow width		Inches	Tape measure			
	Measured length		Inches	Tape measure			
	Time of travel		Seconds	Stop watch			
Temperature			۴	Thermometer			
	рН		pH Units	Test strip/Probe			
	Ammonia		mg/L	Test strip			

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR76		
Today's date: 02/06/17			Time (Military): 1:45PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 51 Rainfall (in.): Last 24 hour		rs: 0 Last 48 hours: 0			
Latitude: 39.9847849	Longitude: -	76.7491471	GPS Unit:	GPS LMK #:	
Camera:		Photo #'s:			
Land Use in Drainage Area (Check all that apply):					
Industrial		Open Space			
Ultra-Urban Residential		Institutional			
Suburban Residential		Other:			
Commercial			Known Industries:		
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

LOCATION	MATERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED			
Closed Pipe	RCP CMP PVC HDPE Steel Other:	Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 42	In Water: No Partially Fully With Sediment: No Partially Fully			
Open drainage	Concrete Earthen rip-rap Other:	Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:				
In-Stream	(applicable when collecting samples)							
Flow Present?	Yes No If No, S	kip to Section 5						
Flow Description (If present)	Trickle Moderate	Substantial						

	FIELD DATA FOR FLOWING OUTFALLS					
PARAMETER		RESULT	UNIT	EQUIPMENT		
Flow #1	Volume		Liter	Bottle		
P	Time to fill		Seconds			
	Flow depth		Inches	Tape measure		
Flow #2	Flow width		Inches	Tape measure		
	Measured length		Inches	Tape measure		
	Time of travel		Seconds	Stop watch		
Temperature			۴	Thermometer		
	рН		pH Units	Test strip/Probe		
	Ammonia		mg/L	Test strip		

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? The Neven Structure S

If No, Skip to Section 5)
ov N
Yes
sical Indicators Present in the flow? ${f ar ar ar ar ar ar ar ar ar ar$

X (1-3)	distance	3 - Clearly visible in outfall flow	🔲 3 - Opaque	 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
TIVE SEVERITY INDE	2 - Easily detected	☐ 2 - Clearly visible in sample bottle	🗖 2 - Cloudy	2 - Some; indications of origin (e.g., possible suds or oil sheen)
RELA	🗖 1 - Faint	□ 1 - Faint colors in sample bottle	🔲 1 - Slight cloudiness	1 - Few/slight; origin not obvious
DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Yellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Juds Petroleum (oil sheen) Other:
CHECK if Present				
INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? J Yes INO (If No. Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Corrosion	
Deposits/Stains		🗖 Oily 🗖 Flow Line 🗖 Paint 🔽 Other: Dark sediment	Looks like water was a brackish color and turned leaves grey and black
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		📕 Brown 📄 Orange 📄 Green 📄 Other:	
Section 6: Overall Out	fall Characterization		

 \square Suspect (one or more indicators with a severity of 3) Potential (presence of two or more indicators)

Cobvious

Section 7: Data Collection

🗸 Unlikely

		M Caulk dam
		s, type: 🗖 OE
0	loc	o If Yes
Ż	Ъ	ź
T Yes	Flow	T Yes
Sample for the lab?	If yes, collected from:	Intermittent flow trap set?
1	2	3

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR75		
Today's date: 02/06/17			Time (Military): 1:55PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 52 Rainfall (in.): Last 24 hour		rs: 0 Last 48 hours: 0			
Latitude: 39.9838206	Longitude: -	76.7511486	GPS Unit:	GPS LMK #:	
Camera:		Photo #'s:			
Land Use in Drainage Area (Check all that apply):					
Industrial		Open Space			
Ultra-Urban Residential		Institutional			
Suburban Residential		Other:			
Commercial			Known Industries:		
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED		
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 18	In Water: No Partially Fully With Sediment: No Partially Fully		
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:			
In-Stream	(applicable when collecting samples)							
Flow Present?	Yes N	o <i>lf No, Sk</i>	(ip to Section 5					
Flow Description (If present)	Trickle	Moderate	Substantial					

	FIELD DATA FOR FLOWING OUTFALLS					
PARAMETER		RESULT	UNIT	EQUIPMENT		
Flow #1	Volume		Liter	Bottle		
	Time to fill		Seconds			
	Flow depth		Inches	Tape measure		
Flow #2	Flow width		Inches	Tape measure		
	Measured length		Inches	Tape measure		
	Time of travel		Seconds	Stop watch		
Temperature			۴	Thermometer		
	рН		pH Units	Test strip/Probe		
	Ammonia		mg/L	Test strip		

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR74		
Today's date: 02/06/17			Time (Military): 1:55PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 52 Rainfall (in.): Last 24 hour		rrs: 0 Last 48 hours: 0			
Latitude: 39.9833557	Longitude: -	76.7517274	GPS Unit: GPS LMK #:		
Camera:			Photo #'s:		
Land Use in Drainage Area (Check all that apply):					
			Open Space		
Ultra-Urban Residential			Institutional		
Suburban Residential			Other:		
			Known Industries:		
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED		
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 42	In Water: No Partially Fully With Sediment: No Partially Fully		
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:			
In-Stream	(applicable when collecting samples)							
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5					
Flow Description (If present)	Trickle	Moderate	Substantial					

	FIELD DATA FOR FLOWING OUTFALLS					
PARAMETER		RESULT	UNIT	EQUIPMENT		
Flow #1	Volume		Liter	Bottle		
	Time to fill		Seconds			
	Flow depth		Inches	Tape measure		
Flow #2	Flow width		Inches	Tape measure		
	Measured length		Inches	Tape measure		
	Time of travel		Seconds	Stop watch		
Temperature			۴	Thermometer		
	рН		pH Units	Test strip/Probe		
	Ammonia		mg/L	Test strip		

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR80		
Today's date: 02/06/17			Time (Military): 2:05PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 52 Rainfall (in.): Last 24 hour		irs: 0 Last 48 hours: 0			
Latitude: 39.9817820	Longitude: -	76.7493799	GPS Unit: GPS LMK #:		
Camera:	a: Photo #'s:				
Land Use in Drainage Area (Check all that apply):					
Industrial			Open Space		
Ultra-Urban Residential			Institutional		
Suburban Residential			Other:		
			Known Industries:		
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

LOCATION	MATER	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED		
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 30	In Water: No Partially Fully With Sediment: No Partially Fully		
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:			
In-Stream	(applicable when collecting samples)							
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5					
Flow Description (If present)		Moderate	Substantial					

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Controsion	
Deposits/Stains		🗖 Oily 📘 Flow Line 🧧 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Codors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR82	
Today's date: 02/06/17			Time (Military): 2:10PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 53		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9819117	Longitude: -	76.7494894	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all the	at apply):			
🗖 Industrial			Open Space	
Ultra-Urban Residential		Institutional		
Suburban Residential		Other:		
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATERIAL	SH.	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP CMP PVC HDPE Steel Other:	Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions:	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:	Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting sa	mples)			
Flow Present?	Yes No If No.	ikip to Section 5			
Flow Description (If present)	Trickle Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

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		DESCI	RIPTION		RELA'	TIVE SEVERITY INDE)	((1-3)
Odor		Sewage	Rancid/sour	Petroleum/	gas	📘 1 - Faint	2 - Easily detected	3 - Noticeable from a distance
Color		Clear Green	Brown Orange	Gray	C ther:	☐ 1 - Faint colorsin sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbididy			See	severity		🗖 1 - Slight cloudiness	🗖 2 - Cloudy	🗌 3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (To	oilet Paper, etc.)	Suds Other:		1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	 3 - Some; origin clear (eg, 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 Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Corrosion	
Deposits/Stains		🗖 Oily 📄 Flow Line 📄 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	fall Characterization		

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

Cobvious

Section 7: Data Collection

🗸 Unlikely

1	Sample for the lab?	□ Yes	oN 🔽			
5	If yes, collected from:	Flow				
З.	Intermittent flow trap set?	T Yes	٥N	lf Yes, type:	П овм	Caulk dam

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Storm drain full of leaves, water seems to be getting through


Section 1: Background Data

Subwatershed:			Outfall ID: WR77	
Today's date: 02/15/17			Time (Military): 1:05PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 45		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9831926	Longitude: -	76.7469533	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all the	at apply):			
ndustrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH.	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	CP PVC Steel		Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 36 x 54	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	nples)			
Flow Present?	Yes Ves	o <i>lf No, Sk</i>	(ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

EX (1-3)	3 - Noticeable from a distance	3 - Clearly visible in outfall flow	🗖 3 - Opaque	 3 - Some, origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
TIVE SEVERITY INDI	2 - Easily detected	2 - Clearly visible in sample bottle	🗖 2 - Cloudy	2 - Some; indications of origin (e.g., possible suds or oil sheen)
RELA	1 - Faint	T - Faint colors in sample bottle	🔲 1 - Slight cloudiness	1 - Few/slight; origin not obvious
DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Yellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Juds Petroleum (oil sheen) Other:
CHECK if Present				
INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? J Yes I No. *(if No. Skip to Section 6*)

COMMENTS		d dirt Mud		Oil Sheen		
DESCRIPTION	Spalling, Cracking or Chipping Peeling Paint Corrosion	Oily 📕 Flow Line 📕 Paint 😈 Other: Mud an	Excessive Inhibited	Odors Colors Floatables 5 Suds Excessive Algae Other:	Brown Orange Green Other	
CHECK if Present						fall Characterization
INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Out

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

Section 7: Data Collection

🗸 Unlikely

		.M 🗖 Caulk dam
		If Yes, type:
°N 🕨	Pool	٥N
T Yes	Flow	T Yes
1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

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

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Section 1: Background Data

Subwatershed:			Outfall ID: WR79	
Today's date: 02/15/17			Time (Military): 1:15PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 45		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9827125	Longitude: -	76.7498102	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all the	at apply):			
🗖 Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP CMP PVC HDPE Steel Other:	Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 12	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:	Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting sa	mples)			
Flow Present?	Yes No If No, S	kip to Section 5			
Flow Description (If present)	Trickle Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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

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Section 1: Background Data

Subwatershed:			Outfall ID: WR78	
Today's date: 02/15/17			Time (Military): 1:15PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 45		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9827908	Longitude: -	76.7498254	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATER	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 12	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ples)			
Flow Present?	Yes Vo	o If No, Sk	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes No (If No, Skip to Section 5)

RELATIVE SEVERITY INDEX (1-3)	2 - Easily detected distance	in 2 - Clearly visible in 3 - Clearly visible outfall flow	ness 🛛 2 - Cloudy	rigin of origin (e.g., obvious oil bound of origin (e.g., (e.g., obvious oil possible suds or oil sheen) sanitary material
	🔽 1 - Faint	1 - Faint colorsi sample bottle	🗖 1 - Slight cloudi	1 - Few/slight; o not obvious
DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Yellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Suds
CHECK if Present				
INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? J Yes I No. *(if No. Skip to Section 6*)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		C Spalling, Cracking or Chipping Peeling Paint Corrosion	
Deposits/Stains		🗖 Oily 📄 Flow Line 📄 Paint 😈 Other: Leaves	Leaves in the drain
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	fall Characterization		

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

Section 7: Data Collection

🗸 Unlikely

		BM 🗖 Caulk dam
		If Yes, type: 🗖 C
°N N	Poo	°N L
□ Yes	Flow	T Yes
. Sample for the lab?	. If yes, collected from:	. Intermittent flow trap set?
1	2	0

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

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Section 1: Background Data

Subwatershed:			Outfall ID: LR1	
Today's date: 02/15/17			Time (Military): 1:35PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 44		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9899820	Longitude: -	76.7471449	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known):	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH.	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	CP PVC Steel		Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 52 x 64	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	nples)			
Flow Present?	Yes Ves	o <i>lf No, Sk</i>	(ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

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 IT Present	DESCRIPTION	KELA	ΙΙΥΕ ΣΕΥΕΚΙΙ Υ ΙΝΔΕΧ	(1-3)
Odor		Sewage Rancid/sour Petroleum/gas Sulfide Other:	🔽 1 - Faint	2 - Easily detected	3 - Noticeable from a distance
Color		Clear Brown Gray Vellow Green Orange Red Other:	1 - Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbididy		See severity	🔲 1 - Slight cloudiness	🗖 2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		 Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other: 	1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	 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 Arephysical indicators that are not related to flow present? J Yes INO (If No. Skip to Section 6)

INDICATOR Outfall Damage Deposits/Stains Abnormal Vegetation Poor pool quality	CHECK if Present	DESCRIPTION Cacking or Chipping Spalling, Cracking or Chipping Corrosion Corrosion Oily Flow Line Paint Other: Standing water Excessive Inhibited Odors Colors Suds Excessive Algae	COMMENTS Comments
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

Potential (presence of two or more indicators)

Section 7: Data Collection

🗸 Unlikely

		Caulk dam
		If Yes, type:
°N N	Pool	٥N
□ Yes	Flow	T Yes
Sample for the lab?	If yes, collected from:	Intermittent flow trap set?
÷	5	ы.

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

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Section 1: Background Data

Subwatershed:			Outfall ID: LR3	
Today's date: 02/15/17			Time (Military): 1:45PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 44		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9869810	Longitude: -	76.7461550	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known):	York City			

Section 2: Outfall Description

LOCATION	MATER	RIAL	SH/	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel Other: TCP		Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 24	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes No	o If No, Sk	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

INDICATOR	CHECK if Present		DES	SCRIPTION		RELA	TIVE SEVERITY INDE)	((1-3)
Odor		Sewage Sulfide	Rancid/sou	ur 🗖 Petroleu	m/gas	🗌 1 - Faint	2 - Easily detected	3 - Noticeable from a distance
Color		Clear Green	Brown Orange	Gray	Tellow Other:	1 - Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbididy			5	See severity		🗖 1 - Slight cloudiness	🗖 2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toi	ilet Paper, etc.) (oil sheen)	Suds Other:		1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	 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? J Yes INO (If No. Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Corrosion	If the outfall is the pipe down the embankment from the street drain, there is a large tree that is smashing the pipe. The tree looks about
			isoury to rain onto the pripe, processing an the water. There also is a significant amount of leaves and stick and mud buildup a few feet away from the outlet which makes it difficult for the water to flow freely.
Deposits/Stains		🗌 Oily 📄 Flow Line 📄 Paint 🛛 Other: Sediment	Leaves sediment and branches
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	fall Characterization		
Unlikely	al (presence of two or more indic	cators) Suspect (one or more indicators with a severity of 3) CD	bvious

Section 7: Data Collection

		es, type: 🗾 OBM 📄 Caulk dam
No	Pool	No If Ye
T Yes	Flow	□ Yes
Sample for the lab?	If yes, collected from:	Intermittent flow trap set?
	Sample for the lab? 🔽 Yes 🔽 No	Sample for the lab? Yes Vo If yes, collected from: Flow Pool

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Tree is leaning on pipe downwind of street drain and if tree falls, the pipe will collapse. There's also a lot of sediment, leaves and branches in the way of water flow. May need some TLC



Section 1: Background Data

Subwatershed:			Outfall ID: LR2	
Today's date: 02/15/17			Time (Military): 2:00PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 44		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9878422	Longitude: -	76.7438890	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known):	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 42	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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

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Section 1: Background Data

Subwatershed:			Outfall ID: WR60		
Today's date: 02/15/17			Time (Military): 2:10PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 43		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0		
Latitude: 39.9701432	Longitude: -	76.7512301	GPS Unit:	GPS LMK #:	
Camera:		Photo #'s:			
Land Use in Drainage Area (Check all that apply):					
Industrial		Open Space			
Ultra-Urban Residential		Institutional			
Suburban Residential		Other:			
Commercial		Known Industries:			
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 48	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting samples)					
Flow Present?	Yes N	o <i>lf No, Sk</i>	(ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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

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Section 1: Background Data

Subwatershed:			Outfall ID: WR59		
Today's date: 02/15/17			Time (Military): 2:15PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 43		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0		
Latitude: 39.9699524	Longitude: -	76.7511928	GPS Unit:	GPS LMK #:	
Camera:		Photo #'s:			
Land Use in Drainage Area (Check all that apply):					
Industrial		Open Space			
Ultra-Urban Residential		Institutional			
Suburban Residential		Other:			
Commercial		Known Industries:			
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 24	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting samples)					
Flow Present?	Yes N	o <i>lf No, Sk</i>	(ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

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	RELA	TIVE SEVERITY INDE)	((1-3)
Odor		Sewage Rancid/sour Petroleum/gas Sulfide Other:	🔽 1 - Faint	2 - Easily detected	3 - Noticeable from a distance
Color		Clear Brown Gray Yellow Green Orange Coren	1 - Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbididy		See severity	🗖 1 - Slight cloudiness	🗖 2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		 Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other: 	1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	 3 - Some; origin clear (eg, obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? J Yes I No. *(if No. Skip to Section 6*)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Cspalling, Cracking or Chipping Peeling Paint Corrosion	
Deposits/Stains		📔 Oily 📄 Flow Line 📄 Paint 🔽 Other: Dirt	Clay type dirt. Not much
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

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

Section 7: Data Collection

🗸 Unlikely

		1 🗖 Caulk dam
		If Yes, type:
oN V		°N L
□ Yes	Flow	T Yes
Sample for the lab?	If yes, collected from:	Intermittent flow trap set?
1	2	ς.

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR58	
Today's date: 02/15/17			Time (Military): 2:20PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 42		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9697950	Longitude: -	76.7501971	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATEF	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP HDPE	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 18	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes Ves	ວ <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)		Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only

	(If No, Skip to Section 5)
	No No
5 0 0	L
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	e flow?
	ent in th
	ors Pres
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	hysical
	Are Any F
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INDICATOR	CHECK if	DESCRIPTION	RELAT	TIVE SEVERITY INDE	((1-3)
	Present				
Odor		Sewage Rancid/sour Petroleum/gas Sulfide Other:	🔽 1 - Faint	2 - Easily detected	3 - Noticeable from a distance
Color		Clear Brown Gray Vellow Green Orange Red Other:	1 - Faint colors in sample bottle	2 - Clearly visible in sample bottle	- 3 - Clearly visible in outfall flow
Turbididy		See severity	🗖 1 - Slight cloudiness	🗖 2 - Cloudy	🗖 3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:	1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	 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 Arephysical indicators that are not related to flow present? J Yes INO (If No. Skip to Section 6)

5 anapert (one 5

Section 7: Data Collection

1.	Sample for the lab?	T Yes	oN 🔽			
2.	If yes, collected from:	Flow	Pool			
З.	Intermittent flow trap set?	☐ Yes	٥N	lf Yes, type:	ОВМ	Caulk dam

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Pipe needs cleaned out of leaves and debris. The swale just outside of pipe needs cleaned out of sediment and leaves

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Section 1: Background Data

Subwatershed:			Outfall ID: WR56	
Today's date: 02/17/17			Time (Military): 1:15PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 41		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9699385	Longitude: -	76.7494715	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 15	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

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 Odor Color Turbididy Floatables	CHECK if Present	DESCRIPTION Sewage Rancid/sour Sewage Rancid/sour Sewage Rancid/sour Sulfide Other: Sulfide Other: Grean Brown Green Orange See severity Sewage (Toilet Paper, etc.) Suds	RELA RELA RELA 1 - Faint colors in sample bottle 1 - Slight cloudiness	TIVE SEVERITY INDE) 2 - Easily detected 2 - Clearly visible in sample bottle 2 - Cloudy 2 - Cloudy 2 - Some; indications of origin (a of	 (1-3) 3 - Noticeable from a distance 3 - Clearly visible in outfall flow 3 - Opaque 3 - Some: origin clear
-Does Not Include Trash!!		Petroleum (oil sheen) Other:	not obvious	or origin (e.g., possible suds or oil sheen)	sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? J Yes INO (If No. Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Controling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📄 Flow Line 📕 Paint 👘 Other:	Black stain under outfall
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

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

Section 7: Data Collection

🗸 Unlikely

		M 🗖 Caulk dam
		lf Yes, type: 🛛 OB
oN V		٥N
T Yes	Flow	T Yes
1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR57	
Today's date: 02/17/17			Time (Military): 1:20PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 41		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9698787	Longitude: -	76.7494668	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all the	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 15	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes No (If No, Skip to Section 5)

	RELATIVE SEVERITY INDEX (1-3)	3 - Noticeable from a aint aistance	1 - Faint colors in 2 - Clearly visible in sample bottle outfall flow	🗖 1 - Slight cloudiness 🔰 2 - Cloudy	1 - Few/slight; origin 2 - Some; indications 3 - Some; origin clear of origin (e.g., obvious oil not obvious of origin (e.g., obvious oil sheen, suds, or floating to sheen, subs, or floating to shee
]	DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Vellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:
	CHECK if Present				
	INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? J Yes INO (If No. Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Corrosion	
Deposits/Stains		🗖 Oily 📄 Flow Line 📘 Paint 🔽 Other:	Black stain under outfall
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		🗖 Brown 🔰 Orange 📘 Green 📄 Other:	
Section 6: Overall Out	tfall Characterization		

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

Section 7: Data Collection

🗸 Unlikely

		BM 🗖 Caulk dam
	-	lf Yes, type: 🛛 🗖 O
°N N		٥N
T Yes	Flow	T Yes
1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR54	
Today's date: 02/17/17			Time (Military): 1:20PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 41		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9699380	Longitude: -	76.7493380	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all the	at apply):			
🗖 Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 15	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes No (If No, Skip to Section 5)

	RELATIVE SEVERITY INDEX (1-3)	3 - Noticeable from a aint aistance	1 - Faint colors in 2 - Clearly visible in sample bottle outfall flow	1 - Slight cloudiness	1 - Few/slight; origin 2 - Some; indications 3 - Some; origin clear of origin (e.g., obvious oil not obvious of origin (e.g., obvious oil sheen, suds, or floating to sheen, subs, or floating to shee
]	DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Vellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:
	CHECK if Present				
	INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? J Yes INO (If No. Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Corrosion	
Deposits/Stains		🗖 Oily 📄 Flow Line 📘 Paint 🔽 Other:	Black stain under outfall
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		🗖 Brown 🔰 Orange 📘 Green 📄 Other:	
Section 6: Overall Out	tfall Characterization		

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

Section 7: Data Collection

🗸 Unlikely

		M 🗖 Caulk dam
		lf Yes, type: 🗖 OB
on N		٥N
□ Yes	Flow	T Yes
1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

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


Section 1: Background Data

Subwatershed:			Outfall ID: WR55	
Today's date: 02/17/17			Time (Military): 1:20PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 41		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9698723	Longitude: -	76.7493348	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
ndustrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 15	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes No (If No, Skip to Section 5)

	RELATIVE SEVERITY INDEX (1-3)	3 - Noticeable from a aint aistance	1 - Faint colors in 2 - Clearly visible in sample bottle outfall flow	1 - Slight cloudiness	1 - Few/slight; origin 2 - Some; indications 3 - Some; origin clear of origin (e.g., obvious oil not obvious of origin (e.g., obvious oil sheen, suds, or floating to sheen, subs, or floating to shee
]	DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Vellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:
	CHECK if Present				
	INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? J Yes INO (If No. Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Corrosion	
Deposits/Stains		🗖 Oily 📘 Flow Line 🧧 Paint 🔽 Other:	Black stain under outfall
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		🗖 Brown 🔰 Orange 📘 Green 📄 Other:	
Section 6: Overall Out	tfall Characterization		

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

Section 7: Data Collection

🗸 Unlikely

		BM 🗖 Caulk dam
	-	lf Yes, type: 🛛 🗖 O
°N N		٥N
T Yes	Flow	T Yes
1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR51	
Today's date: 02/17/17			Time (Military): 1:30PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 42		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9698603	Longitude: -	76.7489142	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all the	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel Other:		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 6	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR50	
Today's date: 02/17/17			Time (Military): 1:40PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 42		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9698828	Longitude: -	76.7483407	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
ndustrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 18	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes V	o <i>lf No, Sk</i>	(ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes No (If No, Skip to Section 5)

	RELATIVE SEVERITY INDEX (1-3)	3 - Noticeable from a aint aistance	1 - Faint colors in 2 - Clearly visible in sample bottle outfall flow	1 - Slight cloudiness	1 - Few/slight; origin 2 - Some; indications 3 - Some; origin clear of origin (e.g., obvious oil not obvious of origin (e.g., obvious oil sheen, suds, or floating to sheen, subs, or floating to shee
]	DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Vellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:
	CHECK if Present				
	INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? J Yes INO (If No. Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Corrosion	
Deposits/Stains		🗖 Oily 📄 Flow Line 📘 Paint 🔽 Other:	Black stain under outfall
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		🗖 Brown 🔰 Orange 📘 Green 📄 Other:	
Section 6: Overall Out	tfall Characterization		

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

Section 7: Data Collection

🗸 Unlikely

		BM 🗖 Caulk dam
	-	lf Yes, type: 🛛 🗖 O
°N N		٥N
T Yes	Flow	T Yes
1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR49	
Today's date: 02/17/17			Time (Military): 1:40PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 42		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9699766	Longitude: -	76.7483268	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all the	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known):	York City			

Section 2: Outfall Description

LOCATION	MATEF	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP HDPE	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 18	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes Ves	ວ <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)		Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR47	
Today's date: 02/17/17			Time (Military): 1:50PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 42		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9697145	Longitude: -	76.7474806	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known):	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 72 x 48	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	nples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	tip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELA'	TIVE SEVERITY INDEX	((1-3)
Odor		Sewage Rancid/sour Petroleum/gas	🔽 1 - Faint	2 - Easily detected	a - Noticeable from a distance
Color		Clear Brown Gray Yellow Green Orange Cother:	1 - Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbididy		See severity	🗖 1 - Slight cloudiness	🗖 2 - Cloudy	🗖 3 - Opaque
Floatables -Does N ot Include Trash!!		 Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other: 	1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	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 Arephysical indicators that are not related to flow present? TYes JNo (If No, Skip to Section 6)

DESCRIPTION COMMENTS	pping Peeling Paint	aint Other:		F Floatables Oil Sheen ae Other:	Green Other:	
	Spalling, Cracking or Chi Corrosion	🗖 Oily 🗍 Flow Line 📙 F	Excessive Inhibited	Colors Colors Suds Excessive Al	Brown Crange	
CHECK if Present						Dutfall Characterization
INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall (

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

Section 7: Data Collection

🗸 Unlikely

;	Sample for the lab?	T Yes	oN Vo					
5	If yes, collected from:	Flow	Pool					
ć	Intermittent flow trap set?	T Yes	°N L	lf Yes, type:	овм	Caulk dam		

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR46	
Today's date: 02/17/17			Time (Military): 2:00PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 43		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9695511	Longitude: -	76.7475464	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all the	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP CMP PVC HDPE Steel Other:	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions:	In Water: No Partially Fully With Sediment: No Partially Fully
♥ Open drainage	Concrete Earthen rip-rap Other:	☐ Trapezoid ✓ Parabolic ☐ Other:		Depth: Top Width: 12 Bottom Width: 24	
In-Stream	(applicable when collecting sam	nples)			
Flow Present?	Yes No If No, St	(ip to Section 5			
Flow Description (If present)	Trickle Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

	acted distance	sible in3 - Clearly visible in leoutfall flow	a - Opaque	ications 3 - Some; origin clear 5, (e.g., obvious oil 1 sor oil sheen, suds, or floating sanitary materials)
	2 - Easily dete	2 - Clearly vis sample bottl	🗖 2 - Cloudy	2 - Some; indi of origin (e.g possible sud sheen)
KELA	🗖 1 - Faint	1 - Faint colors in sample bottle	🗖 1 - Slight cloudiness	1 - Few/slight; origin not obvious
DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Yellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:
Present				
	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint Corrosion	
Deposits/Stains		🗖 Oily 📄 Flow Line 📄 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		🗖 Brown 🗾 Orange 📕 Green 📄 Other:	
Section 6: Overall Out	fall Characterization		

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

Cobvious

Section 7: Data Collection

🗸 Unlikely

1. Sample for the lab?	T Yes	oN D			
2. If yes, collected from:	Flow	Pool			
3. Intermittent flow trap set	Pes 🗌	٥N	lf Yes, type: 🛛 OB	W	Caulk dam

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Tree limbs or roots may impede the flow of water, but water may be getting through





Photo No. 2: image.jpg

Section 1: Background Data

Subwatershed:			Outfall ID: WR45		
Today's date: 02/17/17			Time (Military): 2:05PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 43		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0		
Latitude: 39.9691501	Longitude: -	76.7471944	GPS Unit:	GPS LMK #:	
Camera:		Photo #'s:			
Land Use in Drainage Area (Check all that apply):					
Industrial		Open Space			
Ultra-Urban Residential		Institutional			
Suburban Residential			Other:		
Commercial			Known Industries:		
Notes (e.g., origin of outfall, if known):	York City				

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular ✓ Elliptical ☐ Box ☐ Other:	Single Double Triple	Diameter/Dimensions: 72 x 48	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting samples)					
Flow Present?	Yes N	o <i>lf No, Sk</i>	(ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

	FIELD DATA FOR FLOWING OUTFALLS			
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR44		
Today's date: 02/17/17			Time (Military): 2:10PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 40		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0		
Latitude: 39.9686888	Longitude: -	76.7455675	GPS Unit:	GPS LMK #:	
Camera:		Photo #'s:			
Land Use in Drainage Area (Check all that apply):					
🔲 Industrial		Open Space			
Ultra-Urban Residential		Institutional			
Suburban Residential			Other:		
			Known Industries:		
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel Other:	CMP	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 12	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

	FIELD DATA FOR FLOWING OUTFALLS			
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

INDICATOR	CHECK if Present		DES(CRIPTION		RELA	TIVE SEVERITY INDE)	۲ (1-3)
Odor		Sewage	Rancid/sour	r 🔲 Petroleum	/gas	🔽 1 - Faint	2 - Easily detected	3 - Noticeable from a distance
Color		Clear Green	Brown Orange	Gray	Vellow Other:	☐ 1 - Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbididy			Se	e severity		🔲 1 - Slight cloudiness	🗖 2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (To	ilet Paper, etc.) (oil sheen)	Other:		1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	 3 - Some; origin clear (eg, obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? TYes JNo (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Controsion	
Deposits/Stains		Oily Flow Line Paint Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

 \Box Potential (presence of two or more indicators) \Box Suspect (one or more indicators with a severity of 3)

Section 7: Data Collection

🗸 Unlikely

		Caulk dam
		ОВМ
		lf Yes, type:
on V	Pool	٥N
□ Yes	Flow	T Yes
. Sample for the lab?	. If yes, collected from:	. Intermittent flow trap set?
1.	5	ς.

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Lookslike water is backing up under the concrete wearing it away.



Section 1: Background Data

Subwatershed:			Outfall ID: WR43	
Today's date: 02/17/17			Time (Military): 2:20PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 41		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9686779	Longitude: -	76.7446702	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
ndustrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP CMP PVC HDPE Steel Other: concrete	Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 60 x 65	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:	Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting san	nples)			
Flow Present?	Yes No If No, Sk	cip to Section 5			
Flow Description (If present)	Trickle Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No 1/1 No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELA	TIVE SEVERITY INDE)	((1-3)
Odor		Sewage Rancid/sour Petroleum/gas	🔽 1 - Faint	2 - Easily detected	3 - Noticeable from a distance
Color		Clear Brown Gray Yellow Green Orange Red Other:	1 - Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbididy		See severity	🗖 1 - Slight cloudiness	🗖 2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:	1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	 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 Arephysical indicators that are not related to flow present? TYes JNo (If No. Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Corrosion Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📄 Flow Line 📄 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Suds Excessive Algae Other:	
Pipe benthic growth		📙 Brown 📄 Orange 📄 Green 📄 Other:	
Section 6: Overall Out	fall Characterization		

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

Cobvious

Section 7: Data Collection

🗸 Unlikely

		OBM Caulk dam
0	ool	lo If Yes, type:
se N	ow P	Se
۲¢	El	، الم
. Sample for the lab?	. If yes, collected from:	Intermittent flow trap set
1.	5	ы

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Some water in bottom of outfall but not flowing



Section 1: Background Data

Subwatershed:			Outfall ID: WR42	
Today's date: 02/17/17			Time (Military): 2:25PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 41		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9687803	Longitude: -	76.7440789	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all the	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known):	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP HDPE	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 22 x 32	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	nples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	tip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR41	
Today's date: 02/17/17			Time (Military): 2:25PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 41		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9687815	Longitude: -	76.7437696	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all th	at apply):			
ndustrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 15	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes V	o <i>If No, Sk</i>	(ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELA'	TIVE SEVERITY INDE)	((1-3)
Odor		Sewage Rancid/sour Petroleum/gas Sulfide Other:	🔽 1 - Faint	2 - Easily detected	3 - Noticeable from a distance
Color		Clear Brown Gray Yellow Green Orange Cleen Other:	1 - Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbididy		See severity	🗖 1 - Slight cloudiness	🗖 2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:	1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	 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 Arephysical indicators that are not related to flow present? TYes JNo (If No. Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint Corrosion	
Deposits/Stains		🗖 Oily 📄 Flow Line 📄 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		🗖 Brown 🗾 Orange 📕 Green 📄 Other:	
Section 6: Overall Out	fall Characterization		

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

Cobvious

Section 7: Data Collection

🗸 Unlikely

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Leaves stuck in flap gate but probably will wash out with a heavy rain



Section 1: Background Data

Subwatershed:			Outfall ID: WR40	
Today's date: 02/17/17			Time (Military): 2:30PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 42		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9686805	Longitude: -	76.7437321	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 24	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes No (If No, Skip to Section 5)

ry INDEX (1-3)	cted distance	ible in 3 - Clearly visible in e outfall flow	🔲 3 - Opaque	cations 3 - Some: origin clear (e.g., obvious oil s or oil sheen, suds, or floatin sanitary materials)
TIVE SEVERIT	🗌 2 - Easily dete	2 - Clearly visi sample bottl	🗖 2 - Cloudy	2 - Some; indid of origin (e.g. possible suds sheen)
RELA	🗖 1 - Faint	1 - Faint colors in sample bottle	🔲 1 - Slight cloudiness	1 - Few/slight; origin not obvious
DESCRIPTION	Sewage Rancid/sour Petroleum/gas Sulfide Other:	Clear Brown Gray Yellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:
CHECK if Present				
INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? J Yes INO (If No. Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Corrosion	
Deposits/Stains		🗖 Oily 🗖 Flow Line 🦷 Paint 🔽 Other:	Rocks and stones
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		🗖 Brown 📄 Orange 📄 Green 📄 Other:	
Section 6: Overall Out	tfall Characterization		

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

Section 7: Data Collection

🗸 Unlikely

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


Section 1: Background Data

Subwatershed:			Outfall ID: WR39	
Today's date: 02/17/17			Time (Military): 2:30PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 42		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9692832	Longitude: -	76.7427443	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all the	Check all that apply):			
🗖 Industrial			Open Space Institutional	
Ultra-Urban Residential				
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 15	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? J Yes INO (If No. Skip to Section 6)

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

Section 7: Data Collection

🗸 Unlikely

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR38		
Today's date: 02/17/17			Time (Military): 2:40PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 42		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0		
Latitude: 39.9685762	Longitude: -	76.7407296	GPS Unit:	GPS LMK #:	
Camera:	Fineck all that apply):		Photo #'s:		
Land Use in Drainage Area (Check all tha			Open Space Institutional		
Industrial					
Ultra-Urban Residential					
Suburban Residential			Other:		
			Known Industries:		
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

LOCATION	MATER	IAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP HDPE	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 36	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes No) If No, Sk	ip to Section 5			
Flow Description (If present)	Trickle	4oderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? J Yes INO (If No. Skip to Section 6)

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

Section 7: Data Collection

🗸 Unlikely

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR38A	
Today's date: 02/17/17			Time (Military): 2:45PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 43		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9682201	Longitude: -	76.7412999	GPS Unit:	GPS LMK #:
Camera:		Photo #'s:		
Land Use in Drainage Area (Check all that apply):				
Industrial		Open Space		
Ultra-Urban Residential		Institutional		
Suburban Residential		Other:		
Commercial		Known Industries:		
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 12	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No 111 No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELA	TIVE SEVERITY INDE)	((1-3)
Odor		Sewage Rancid/sour Petroleum/gas	🔽 1 - Faint	2 - Easily detected	3 - Noticeable from a distance
Color		Clear Brown Gray Yellow Green Orange Red Other:	1 - Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbididy		See severity	🗖 1 - Slight cloudiness	🗖 2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:	1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	 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 Arephysical indicators that are not related to flow present? TYes JNo (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Corrosion	
Deposits/Stains		🗖 Oily 📄 Flow Line 📄 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	fall Characterization		

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

Section 7: Data Collection

🗸 Unlikely

Í						
;	Sample for the lab?	□ Yes	°N N			
5	If yes, collected from:	Flow				
ы	Intermittent flow trap set?	□ Yes	٥N	lf Yes, type:	П ОВМ	Caulk dam

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Submerged, cannot get a good inspection



Section 1: Background Data

Subwatershed:			Outfall ID: WR37	
Today's date: 02/17/17			Time (Military): 2:50PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 43		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9685306	Longitude: -	76.7403748	GPS Unit:	GPS LMK #:
Camera:		Photo #'s:		
Land Use in Drainage Area (Check all that apply):				
Industrial		Open Space		
Ultra-Urban Residential		Institutional		
Suburban Residential		Other:		
Commercial		Known Industries:		
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions:	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting samples)					
Flow Present?	Yes V	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5) ° L

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? J Yes INO (If No. Skip to Section 6)

INDICATOR Outfall Damage Deposits/Stains Abnormal Vegetation Poor pool quality Pipe benthic growth	CHECK if Present	Description Description Spalling, Cracking or Chipping Peeling Paint Corrosion Corrosion Corrosion Corrosion Corrosion Content Colly Flow Line Excessive Inhibited Odors Colors Colors Colors Suds Excessive Algae Brown Orange Green Other:	COMMENTS Tiny bit dirt/sediment
Section 6: Overall Out	tfall Characterization		
🗸 Unlikely	ial (presence of two or more indic	cators) Suspect (one or more indicators with a severity of 3) Obv	vious

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

Section 7: Data Collection

🗸 Unlikely

		OBM 🗖 Caulk dam
	I	lf Yes, type:
°N N	Poo	°N L
□ Yes	Flow	T Yes
1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

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

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Section 1: Background Data

Subwatershed:			Outfall ID: WR36	
Today's date: 02/17/17			Time (Military): 2:50PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 43		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9684380	Longitude: -	76.7403932	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all the	at apply):			
🔽 Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known):	York City			
1				

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions:	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes V	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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

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Section 1: Background Data

Subwatershed:			Outfall ID: WR35	
Today's date: 02/17/17			Time (Military): 2:55PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 44		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9684364	Longitude: -	76.7403695	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel Other: TCP		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 24	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	iples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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

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Section 1: Background Data

Subwatershed:			Outfall ID: WR34	
Today's date: 02/17/17			Time (Military): 2:55PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 44		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9684666	Longitude: -	76.7402464	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all th	at apply):			
🔽 Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential		Other:		
Commercial		Known Industries:		
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATEF	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 24	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)		Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? J Yes INO (If No. Skip to Section 6)

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

Section 7: Data Collection

🗸 Unlikely

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR30	
Today's date: 02/20/17			Time (Military): 10:30AM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 50		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9683947	Longitude: -	76.7380912	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential		Other:		
Commercial		Known Industries:		
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 30	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>If No, Sk</i>	to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No 1/1 No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELA	TIVE SEVERITY INDE)	((1-3)
Odor		Sewage Rancid/sour Petroleum/gas	🔽 1 - Faint	2 - Easily detected	3 - Noticeable from a distance
Color		Clear Brown Gray Yellow Green Orange Red Other:	1 - Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbididy		See severity	🗖 1 - Slight cloudiness	🗖 2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		 Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other: 	1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	 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 Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Controling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📄 Flow Line 📄 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	fall Characterization		

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

Cobvious

Section 7: Data Collection

🗸 Unlikely

1. Sample for the lab?	□ Yes	oN 🔽			
2. If yes, collected from:	Flow				
3. Intermittent flow trap set?	□ Yes	٥N	If Yes, type:	Повм	Caulk dam

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Partially submerged, cannot tell if there's flow



Section 1: Background Data

Subwatershed:			Outfall ID: WR29	
Today's date: 02/20/17			Time (Military): 10:35AM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 51		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9683796	Longitude: -	76.7380231	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all the	at apply):			
🗖 Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 15	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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

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Section 1: Background Data

Subwatershed:			Outfall ID: WR27	
Today's date: 02/20/17			Time (Military): 10:45AM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 52		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9682805	Longitude: -	76.7374652	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known):	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	☐ Single ✓ Double ☐ Triple ☐ Other:	Diameter/Dimensions: 8	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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

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Section 1: Background Data

Subwatershed:			Outfall ID: WR26	
Today's date: 02/20/17			Time (Military): 10:45AM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 52		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9683818	Longitude: -	76.7375639	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known):	York City			

Section 2: Outfall Description

LOCATION	MATER	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel Other: TCP		Circular Elliptical Box Other:	☐ Single ☑ Double ☐ Triple ☐ Other:	Diameter/Dimensions: 10	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes No	o If No, Sk	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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

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Section 1: Background Data

Subwatershed:			Outfall ID: WR24	
Today's date: 02/20/17			Time (Military): 10:45AM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 52		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9684307	Longitude: -	76.7374581	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	☐ Single ☑ Double ☐ Triple ☐ Other:	Diameter/Dimensions: 10	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>If No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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

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Section 1: Background Data

Subwatershed:			Outfall ID: WR25	
Today's date: 02/20/17			Time (Military): 10:50AM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 52		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9683266	Longitude: -	76.7373725	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all the	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known):	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	☐ Single ✓ Double ☐ Triple ☐ Other:	Diameter/Dimensions: 8	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes IN No. (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR23	
Today's date: 02/20/17			Time (Military): 10:55AM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 52		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9685678	Longitude: -	76.7370062	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all the	at apply):			
🗖 Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 8	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes IN No. (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR22	
Today's date: 02/20/17			Time (Military): 11:00AM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 53		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9686321	Longitude: -	76.7369059	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all th	at apply):			
🗖 Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 6	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes V	o <i>If No, Sk</i>	to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes IN No. (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR21	
Today's date: 02/20/17			Time (Military): 11:00AM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 53		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9686818	Longitude: -	76.7367946	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all the	at apply):			
🗖 Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 24	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)		Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes IN No. (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR19	
Today's date: 02/20/17			Time (Military): 11:05AM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 53		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9686920	Longitude: -	76.7367625	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
ndustrial			Open Space	
Ultra-Urban Residential		Institutional		
Suburban Residential		Other:		
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATER	IAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 12	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when c	collecting sam	ıples)			
Flow Present?	Yes No	If No, Sk	to Section 5			
Flow Description (If present)	Trickle	1oderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes IN No. (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR18	
Today's date: 02/20/17			Time (Military): 11:05AM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 53		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9688904	Longitude: -	76.7365644	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential		Other:		
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 12	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>If No, Sk</i>	to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? TY es No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELA	TIVE SEVERITY INDE)	((1-3)
Odor		Sewage Rancid/sour Petroleum/gas	🔽 1 - Faint	2 - Easily detected	3 - Noticeable from a distance
Color		Clear Brown Gray Yellow Green Orange Red Other:	1 - Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbididy		See severity	🗖 1 - Slight cloudiness	🗖 2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper, etc.) Juds Petroleum (oil sheen) Other:	1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	 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 IN No. (If No, 5kip to Section 6)

COMMENTS	DESCRIPTION Spalling Cracking or Chipping Peeling Paint Corrosion Corrosion Corrosion Oily Flow Line Paint Colly Flow Line Collors Colors Colors Colors Colors Colors Suds Excessive Algae Brown Orange Creen Other:	CHECK if Present	INDICATOR Outfall Damage Deposits/Stains Abnormal Vegetation Poor pool quality Pipe benthic growth
	Brown Orange Green Other:		Pipe benthic growth
	Suds Excessive Algae Other:		Poor pool quality
	Codors Colors Floatables Oil Sheen		
	Excessive Inhibited		Abnormal Vegetation
	🗖 Oily 🗖 Flow Line 🗖 Paint 🖉 Other:		Deposits/Stains
	Corrosion Chipping Peeling Paint Corrosion		Outfall Damage
COMMENTS	DESCRIPTION	CHECK if Present	INDICATOR

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

Cobvious

Section 7: Data Collection

🗸 Unlikely

1. Sample for the lab?	□ Yes	oN 🔽			
2. If yes, collected from:	Flow				
3. Intermittent flow trap set?	□ Yes	٥N	If Yes, type:	П ОВМ	Caulk dam

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? There's a large couch in the way of getting a good photo of the outfall however it's not impeding the flow



Section 1: Background Data

Subwatershed:			Outfall ID: WR17	
Today's date: 02/20/17			Time (Military): 11:10AM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 52		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9689545	Longitude: -	76.7364598	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	C RCP PVC Steel Other:		Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions:	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes IN No. (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR20	
Today's date: 02/20/17			Time (Military): 11:15AM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 53		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9687580	Longitude: -	76.7368468	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
ndustrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 12	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes V	o <i>If No, Sk</i>	to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes IN No. (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR15		
Today's date: 02/20/17			Time (Military): 11:25AM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 53		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0		
Latitude: 39.9691871	Longitude: -	76.7360415	GPS Unit:	GPS LMK #:	
Camera:		Photo #'s:			
Land Use in Drainage Area (Check all that apply):					
Industrial		Open Space			
Ultra-Urban Residential		Institutional			
Suburban Residential		Other:			
Commercial		Known Industries:			
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 30	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting samples)					
Flow Present?	Yes V	o <i>lf No, Sk</i>	(ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

	FIELD DATA FOR FLOWING OUTFALLS					
P	ARAMETER	RESULT	UNIT	EQUIPMENT		
Flow #1	Volume		Liter	Bottle		
	Time to fill		Seconds			
	Flow depth		Inches	Tape measure		
Flow #2	Flow width		Inches	Tape measure		
-	Measured length		Inches	Tape measure		
	Time of travel		Seconds	Stop watch		
	Temperature		۴	Thermometer		
	рН		pH Units	Test strip/Probe		
	Ammonia		mg/L	Test strip		

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes IN No. (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR14		
Today's date: 02/20/17			Time (Military): 11:25AM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 53		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0		
Latitude: 39.9693789	Longitude: -	76.7357407	GPS Unit:	GPS LMK #:	
Camera:		Photo #'s:			
Land Use in Drainage Area (Check all that apply):					
Industrial		Open Space			
Ultra-Urban Residential		Institutional			
Suburban Residential		Other:			
Commercial		Known Industries:			
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

LOCATION	MATEF	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP HDPE	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 18	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting samples)					
Flow Present?	Yes Ves	ວ <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)		Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELA	TIVE SEVERITY INDE	K (1-3)
Odor		Sewage Rancid/sour Petroleum/gas	🗖 1 - Faint	2 - Easily detected	3 - Noticeable from a distance
Color		Clear Brown Gray Yellow Clean Crange Red Cother:	1 - Faint colors in sample bottle	ample bottle	3 - Clearly visible in outfall flow
Turbididy		See severity	🗖 1 - Slight cloudiness	🗖 2 - Cloudy	🗌 3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:	1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	 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 Arephysical indicators that are not related to flow present? TYes JNo (If No. Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Controling, Cracking or Chipping Peeling Paint Corrosion	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	fall Characterization		

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

Cobvious

Section 7: Data Collection

🗸 Unlikely

		3M 🗖 Caulk dam
	0	If Yes, type: 🛛 O
oN N	Poo	°N L
□ Yes	Flow	T Yes
l. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Erosion under outfall base. Outfall may collapse into the creek in the future



Section 1: Background Data

Subwatershed:			Outfall ID: WR16	
Today's date: 02/20/17			Time (Military): 11:30AM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 53		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9690872	Longitude: -	76.7360059	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all the	at apply):			
🗖 Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 18	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes V	o <i>lf No, Sk</i>	(ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes IN No. (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR12	
Today's date: 02/20/17			Time (Military): 11:35AM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 54		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9695631	Longitude: -	76.7351462	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all the	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known):	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 18	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes V	o <i>lf No, Sk</i>	to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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


Section 1: Background Data

Subwatershed:			Outfall ID: WR7	
Today's date: 02/20/17			Time (Military): 1:05PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 56		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9705113	Longitude: -	76.7334898	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all the	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known):	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 84 x 60	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes Vo. (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? TYes JNo (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Controling, Cracking or Chipping Peeling Paint	
Deposits/Stains		Oily Flow Line Paint Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		🗖 Brown 🔰 Orange 📘 Green 📄 Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Cobvious

Section 7: Data Collection

]
]

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Grate covering the outfall is broken off and laying in front of it



Section 1: Background Data

Subwatershed:			Outfall ID: WR2	
Today's date: 02/20/17			Time (Military): 1:20PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 55		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9708464	Longitude: -	76.7318232	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATEF	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 18	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes Ves	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)		Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR3	
Today's date: 02/20/17			Time (Military): 1:25PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 56		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9708517	Longitude: -	76.7322373	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 60	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>If No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes Vo (If No, Skip to Section 5)

X (1-3)	distance	a - Clearly visible in outfall flow	🗖 3 - Opaque	 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
TIVE SEVERITY INDE	2 - Easily detected	2 - Clearly visible in sample bottle	🗖 2 - Cloudy	2 - Some; indications of origin (e.g., possible suds or oil sheen)
RELA	📘 1 - Faint	□ 1 - Faint colors in sample bottle	🗖 1 - Slight cloudiness	1 - Few/slight; origin not obvious
DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Yellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:
CHECK if Present				
INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? TYES TONO (If No. Skip to Section 6)

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

Section 7: Data Collection

🗸 Unlikely

		OBM Caulk dam
	19	lf Yes, type:
°N D	Poo	°N L
T Yes	Elow	T Yes
Sample for the lab?	If yes, collected from:	Intermittent flow trap set?
÷	3	ы

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR6	
Today's date: 02/20/17			Time (Military): 1:50PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 57		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9706294	Longitude: -	76.7332597	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known):	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 10	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	nples)			
Flow Present?	Yes N	o If No, Sk	tip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR5	
Today's date: 02/20/17			Time (Military): 1:55PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 57		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9705672	Longitude: -	76.7331392	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel Other:	CMP	Circular Elliptical Box Other:	☐ Single ✓ Double ☐ Triple ☐ Other:	Diameter/Dimensions: 12	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR10	
Today's date: 02/20/17			Time (Military): 2:00PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 57		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9704215	Longitude: -	76.7336788	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all the	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 8	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:		Outfall ID: WR11			
Today's date: 02/20/17			Time (Military): 2:05PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 57		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0		
Latitude: 39.9703554	Longitude: -	76.7336254	GPS Unit:	GPS LMK #:	
Camera:		Photo #'s:			
Land Use in Drainage Area (Check all that apply):					
Industrial		Open Space			
Ultra-Urban Residential		Institutional			
Suburban Residential		Other:			
Commercial		Known Industries:			
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 8	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting samples)					
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT		
Flow #1	Volume		Liter	Bottle		
I	Time to fill		Seconds			
	Flow depth		Inches	Tape measure		
Flow #2	Flow width		Inches	Tape measure		
-	Measured length		Inches	Tape measure		
	Time of travel		Seconds	Stop watch		
Temperature			۴	Thermometer		
рН			pH Units	Test strip/Probe		
	Ammonia		mg/L	Test strip		

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:		Outfall ID: WR9			
Today's date: 02/20/17			Time (Military): 2:10PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 57		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0		
Latitude: 39.9704126	Longitude: -	76.7335049	GPS Unit:	GPS LMK #:	
Camera:		Photo #'s:			
Land Use in Drainage Area (Check all that apply):					
Industrial		Open Space			
Ultra-Urban Residential		Institutional			
Suburban Residential		Other:			
Commercial		Known Industries:			
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 6	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting samples)					
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT		
Flow #1	Volume		Liter	Bottle		
I	Time to fill		Seconds			
	Flow depth		Inches	Tape measure		
Flow #2	Flow width		Inches	Tape measure		
	Measured length		Inches	Tape measure		
	Time of travel		Seconds	Stop watch		
Temperature			۴	Thermometer		
pH			pH Units	Test strip/Probe		
	Ammonia		mg/L	Test strip		

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes No (If No, Skip to Section 5)

	RELATIVE SEVERITY INDEX (1-3)	3 - Noticeable from a aint aistance	1 - Faint colors in 2 - Clearly visible in sample bottle outfall flow	🗖 1 - Slight cloudiness 🔰 2 - Cloudy	1 - Few/slight; origin 2 - Some; indications 3 - Some; origin clear of origin (e.g., obvious oil not obvious of origin (e.g., obvious oil sheen, suds, or floating to sheen, subs, or floating to shee
]	DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Vellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:
	CHECK if Present				
	INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? J Yes INO (If No. Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Corrosion	
Deposits/Stains		🗖 Oily 📄 Flow Line 📘 Paint 🔽 Other:	Black stain under outfall
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		🗖 Brown 🔰 Orange 📘 Green 📄 Other:	
Section 6: Overall Out	tfall Characterization		

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

Section 7: Data Collection

🗸 Unlikely

		BM 🗖 Caulk dam
	-	lf Yes, type: 🛛 🗖 O
°N N		٥N
T Yes	Flow	T Yes
1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

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





Section 1: Background Data

Subwatershed:			Outfall ID: WR8	
Today's date: 02/20/17			Time (Military): 2:10PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 57	R	Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9704785 Long	n gitude: -76.	.7335721	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all that app	oly):			
🔲 Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known): York C	City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 6	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>If No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes No (If No, Skip to Section 5)

	RELATIVE SEVERITY INDEX (1-3)	3 - Noticeable from a aint aistance	1 - Faint colors in 2 - Clearly visible in sample bottle outfall flow	1 - Slight cloudiness	1 - Few/slight; origin 2 - Some; indications 3 - Some; origin clear of origin (e.g., obvious oil not obvious of origin (e.g., obvious oil sheen, suds, or floating to sheen, subs, or floating to shee
]	DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Vellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:
	CHECK if Present				
	INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? J Yes INO (If No. Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Corrosion	
Deposits/Stains		🗖 Oily 📘 Flow Line 🧧 Paint 🔽 Other:	Black stain under outfall
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		🗖 Brown 🔰 Orange 📘 Green 📄 Other:	
Section 6: Overall Out	tfall Characterization		

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

Section 7: Data Collection

🗸 Unlikely

		BM 🗖 Caulk dam
	-	lf Yes, type: 🛛 🗖 O
°N N		٥N
T Yes	Flow	T Yes
1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

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



Section 1: Background Data

Subwatershed:			Outfall ID: WR13	
Today's date: 02/21/17			Time (Military): 10:15AM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 44		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9692752	Longitude: -	76.7356102	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all the	at apply):			
ndustrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP CMP PVC HDPE Steel	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions:	In Water: No Partially Fully With Sediment: No Partially Fully
♥ Open drainage	Concrete Earthen rip-rap Other: earthern/concrete	Trapezoid Parabolic Other:		Depth: Top Width: 60 Bottom Width: 12	<u> </u>
In-Stream	block (applicable when collecting sam	nples)			
Flow Present?	Yes No If No, Sk	cip to Section 5			
Flow Description (If present)	Trickle Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
· · ·	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: CC4	
Today's date: 02/28/17			Time (Military): 1:50PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 65		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9702554	Longitude: -	76.7271787	GPS Unit:	GPS LMK #:
Camera:		Photo #'s:		
Land Use in Drainage Area (Check all that apply):				
Industrial		Open Space		
Ultra-Urban Residential		Institutional		
Suburban Residential		Other:		
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 24	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: CC4A	
Today's date: 02/28/17			Time (Military): 1:55PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 64		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9702497	Longitude: -	76.7271927	GPS Unit:	GPS LMK #:
Camera:		Photo #'s:		
Land Use in Drainage Area (Check all that apply):				
Industrial		Open Space		
Ultra-Urban Residential		Institutional		
Suburban Residential		Other:		
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATERIAL	SF	IAPE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP CM PVC HDI Steel ✓ Other: Cl	 Circular Elliptical Box Other: 	Single	Diameter/Dimensions: 6	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:	Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collectin	g samples)			
Flow Present?	Yes No If I	lo, Skip to Section 5			
Flow Description (If present)	Trickle Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5) ° L

INDICATOR	CHECK if Present		DES	CRIPTION		RELA	TIVE SEVERITY INDE)	K (1-3)
Odor		Sewage Sulfide	Rancid/sou	ur 🗖 Petroleur	n/gas	📘 1 - Faint	2 - Easily detected	☐ 3 - Noticeable from a distance
Color		Clear Green	Brown Orange	Gray	Tellow	☐ 1 - Faint colors in sample bottle	☐ 2 - Clearly visible in sample bottle	a - Clearly visible in outfall flow
Turbididy			5	iee severity		🗖 1 - Slight cloudiness	🗖 2 - Cloudy	🗌 3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (To Petroleum	ilet Paper, etc.) (oil sheen)	Other:		1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	 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 Arephysical indicators that are not related to flow present? J Yes INO (If No. Skip to Section 6)

INDICATOR Outfall Damage Deposits/Stains Abnormal Vegetation Poor pool quality Pipe benthic growth	CHECK if Present CHECK if Present	Description Description Description Spalling, Cracking or Chipping Peeling Paint Corrosion Oliy Flow Line Paint Other: Oily Flow Line Paint Other: Other: Oodors Colors Floatables Oil Sheen Suds Excessive Algae Other: Brown Orange Green Other:	Pipe is falling apart
Unlikely	tial (presence of two or more indic	cators) Suspect (one or more indicators with a severity of 3)	vious

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

Section 7: Data Collection

🗸 Unlikely

		Caulk dam
		lf Yes, type:
oN 🔽		٥N
□ Yes	Flow	T Yes
. Sample for the lab?	. If yes, collected from:	. Intermittent flow trap set?
1	2	3

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


Section 1: Background Data

Subwatershed:			Outfall ID: CC5	
Today's date: 02/28/17			Time (Military): 1:55PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 64		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9701822	Longitude: -	76.7272795	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known):	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 24	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: CC6	
Today's date: 02/28/17			Time (Military): 2:05PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 65		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9696675	Longitude: -	76.7280398	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known):	York City			

Section 2: Outfall Description

LOCATION	MATER	RIAL	SH/	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel Other: TCP		Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 24	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes No	o If No, Sk	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: CC8		
Today's date: 02/28/17			Time (Military): 2:10PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 64		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0		
Latitude: 39.9690249	Longitude: -	76.7288640	GPS Unit:	GPS LMK #:	
Camera:		Photo #'s:			
Land Use in Drainage Area (Check all that apply):					
Industrial		Open Space			
Ultra-Urban Residential		Institutional			
Suburban Residential			Other:		
Commercial			Known Industries:		
Notes (e.g., origin of outfall, if known):	York City				

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel Other: TCP		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 24	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	nples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

	FIELD DATA FOR FLOWING OUTFALLS					
PARAMETER		RESULT UNIT EQUIPME		EQUIPMENT		
Flow #1	Volume		Liter	Bottle		
I	Time to fill		Seconds			
	Flow depth		Inches	Tape measure		
Flow #2	Flow width		Inches	Tape measure		
	Measured length		Inches	Tape measure		
	Time of travel		Seconds	Stop watch		
Temperature			۴	Thermometer		
pН			pH Units	Test strip/Probe		
	Ammonia		mg/L	Test strip		

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: CC9			
Today's date: 02/28/17			Time (Military): 2:15PM	Time (Military): 2:15PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown			
Temperature (°F): 64		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0			
Latitude: 39.9689693	Longitude: -	76.7289341	GPS Unit:	GPS LMK #:		
Camera:		Photo #'s:				
Land Use in Drainage Area (Check all that apply):						
Industrial		Open Space				
Ultra-Urban Residential		Institutional				
Suburban Residential			Other:			
Commercial			Known Industries:			
Notes (e.g., origin of outfall, if known): `	York City					

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel Other: RCP+C		Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 48	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

	FIELD DATA FOR FLOWING OUTFALLS					
PARAMETER		RESULT	UNIT	EQUIPMENT		
Flow #1	Volume		Liter	Bottle		
	Time to fill		Seconds			
	Flow depth		Inches	Tape measure		
Flow #2	Flow width		Inches	Tape measure		
-	Measured length		Inches	Tape measure		
	Time of travel		Seconds	Stop watch		
Temperature			۴	Thermometer		
pH			pH Units	Test strip/Probe		
	Ammonia		mg/L	Test strip		

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes Vo. (If No, Skip to Section 5) ° N

INDICATOR	CHECK if Present	DESCRIPTION	RELA	TIVE SEVERITY INDEX	((1-3)
Odor		Sewage Rancid/sour Petroleum/gas	📘 1 - Faint	2 - Easily detected	3 - Noticeable from a distance
Color		Clear Brown Gray Yellow Green Orange Cother:	1 - Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbididy		See severity	🗖 1 - Slight cloudiness	🗖 2 - Cloudy	🗖 3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:	1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	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 Arephysical indicators that are not related to flow present? J Yes I No. *(if No. Skip to Section 6*)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Controsion	
Deposits/Stains		Oily Flow Line Paint Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		🗖 Brown 🔰 Orange 🛃 Green 🗾 Other:	Some green moss
Section 6: Overall Out	Hall Characterization		

🗸 Unlikely

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

Cobvious

Section 7: Data Collection

	0	ool	o If Yes, type: OBM Caulk dam
			type: OBM
	oN Vo	Pool	No If Yes
	□ Yes	Flow	T Yes
	. Sample for the lab?	. If yes, collected from:	. Intermittent flow trap set?
2	1	5	с,

Т

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Only adrip of water coming out



Section 1: Background Data

Subwatershed:			Outfall ID: CC10		
Today's date: 02/28/17			Time (Military): 2:25PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 64		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0		
Latitude: 39.9684120	Longitude: -	76.7296278	GPS Unit:	GPS LMK #:	
Camera:			Photo #'s:		
Land Use in Drainage Area (Check all that apply):					
☐ Industrial			Open Space		
Ultra-Urban Residential					
Suburban Residential			Other:		
			Known Industries:		
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

LOCATION	MATE	RIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 24	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

	FIELD DATA FOR FLOWING OUTFALLS						
P	ARAMETER	RESULT	UNIT	EQUIPMENT			
Flow #1	Volume		Liter	Bottle			
I	Time to fill		Seconds				
	Flow depth		Inches	Tape measure			
Flow #2	Flow width		Inches	Tape measure			
-	Measured length		Inches	Tape measure			
	Time of travel		Seconds	Stop watch			
Temperature			۴	Thermometer			
	рН		pH Units	Test strip/Probe			
	Ammonia		mg/L	Test strip			

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: CC11		
Today's date: 02/28/17			Time (Military): 2:30PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 64		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0		
Latitude: 39.9677608	Longitude: -	76.7303182	GPS Unit:	GPS LMK #:	
Camera:			Photo #'s:		
Land Use in Drainage Area (Check all that apply):					
☐ Industrial			Open Space		
Ultra-Urban Residential					
Suburban Residential			Other:		
			Known Industries:		
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	SHAPE		SHAPE DIMENSIONS (SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 18	In Water: No Partially Fully With Sediment: No Partially Fully		
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid	Trapezoid Parabolic Other:				
In-Stream	(applicable when	collecting sam	ıples)					
Flow Present?	Yes N	o <i>lf No, Sk</i>	(ip to Section 5					
Flow Description (If present)	Trickle	Moderate	Substantial					

	FIELD DATA FOR FLOWING OUTFALLS							
P	ARAMETER	RESULT	UNIT	EQUIPMENT				
Flow #1	Volume		Liter	Bottle				
I	Time to fill		Seconds					
	Flow depth		Inches	Tape measure				
Flow #2	Flow width		Inches	Tape measure				
	Measured length		Inches	Tape measure				
	Time of travel		Seconds	Stop watch				
Temperature			۴	Thermometer				
	рН		pH Units	Test strip/Probe				
	Ammonia		mg/L	Test strip				

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	RELA'	TIVE SEVERITY INDE)	< (1-3)
Odor		Sewage Rancid/sour Petroleum/gas Sulfide Other:	🔽 1 - Faint	2 - Easily detected	3 - Noticeable from a distance
Color		Clear Brown Gray Vellow Green Orange Clear	1 - Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbididy		See severity	🗖 1 - Slight cloudiness	🗖 2 - Cloudy	3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:	1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	 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 Arephysical indicators that are not related to flow present? J Yes I No. *(if No. Skip to Section 6*)

	COMMENTS				The flag gate cannot open, rocks and sediment has blocked it		
	DESCRIPTION	Corrosion	🗖 Oily 📄 Flow Line 📄 Paint 📄 Other:	Excessive Inhibited	Codors Colors Floatables Oil Sheen Suds Excessive Algae 🗸 Other:	Brown Orange Green Other:	
	CHECK if Present						
.	INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	

Section 6: Overall Outfall Characterization

🗸 Unlikely

Suspect (one or more indicators with a severity of 3) \square Potential (presence of two or more indicators)

Cobvious

Section 7: Data Collection

		f Yes, type: 📄 OBM 📄 Caulk dam
		BM 🗖 Caulk dam
		lf Yes, type: 🔽 O
oN 🔽		°N L
□ Yes	Flow	☐ Yes
. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Rocks and sediment is blocking the flap gate, won't open



Section 1: Background Data

Subwatershed:			Outfall ID: CC13	
Today's date: 02/28/17			Time (Military): 2:35PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 64		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9677258	Longitude: -	76.7303710	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel Other: TCP		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 24	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	iples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: CC15	
Today's date: 02/28/17			Time (Military): 2:35PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 64		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9676270	Longitude: -	76.7305063	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all the	at apply):			
🔽 Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 24	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: CC21	
Today's date: 02/28/17			Time (Military): 2:45PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 64		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9670661	Longitude: -	76.7312895	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known):	York City			

Section 2: Outfall Description

LOCATION	MATER	IAL	SH/	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel Other: TCP		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 12	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when o	collecting sam	ıples)			
Flow Present?	Yes No	lf No, Sk	ip to Section 5			
Flow Description (If present)	Trickle	/loderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: CC22	
Today's date: 02/28/17			Time (Military): 2:45PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 64		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9670589	Longitude: -	76.7312993	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATERI	IAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 10	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when co	ollecting sam	iples)			
Flow Present?	Yes No	lf No, Sk	ip to Section 5			
Flow Description (If present)	Trickle	loderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: CC23	
Today's date: 02/28/17			Time (Military): 2:45PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 64		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9670554	Longitude: -	76.7313062	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATERI	IAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 10	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when co	ollecting sam	iples)			
Flow Present?	Yes No	lf No, Sk	ip to Section 5			
Flow Description (If present)	Trickle	loderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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



Section 1: Background Data

Subwatershed:			Outfall ID: CC26	
Today's date: 02/28/17			Time (Military): 2:55PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 64		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9665405	Longitude: -	76.7319664	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel Other:	CMP	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 12	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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


Section 1: Background Data

Subwatershed:			Outfall ID: CC29	
Today's date: 02/28/17			Time (Military): 2:55PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 63		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9664142	Longitude: -	76.7321413	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 12	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	nples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	tip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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

Photo No. 1: image.jpg



Section 1: Background Data

Subwatershed:			Outfall ID: CC27	
Today's date: 02/28/17			Time (Military): 3:00PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 63		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9665259	Longitude: -	76.7320027	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATER	RIAL	SH/	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel Other: TCP		Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 24	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes No	o If No, Sk	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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

Photo Log

Photo No. 1: image.jpg



Section 1: Background Data

Subwatershed:			Outfall ID: WR48	
Today's date: 05/09/16			Time (Military): 10:30AM	
Investigators: Jessica			Form completed by: Jessica	
Temperature (°F):		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9699157	Longitude: -	76.7479056	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known):	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP	Circular Elliptical Box Other:	Single	Diameter/Dimensions: 15	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	(ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

X (1-3)	distance	a - Clearly visible in outfall flow	🗖 3 - Opaque	 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
TIVE SEVERITY INDE	2 - Easily detected	ample bottle	🗖 2 - Cloudy	2 - Some; indications of origin (e.g., possible suds or oil sheen)
RELA	🗖 1 - Faint	1 - Faint colors in sample bottle	🗖 1 - Slight cloudiness	1 - Few/slight; origin not obvious
DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Yellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Juds Petroleum (oil sheen) Other:
CHECK if Present				
INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? J Yes I No. *(if No. Skip to Section 6*)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Corrosion	
Deposits/Stains		Oily Flow Line Paint Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		📙 Brown 📄 Orange 📄 Green 📄 Other:	
Section 6: Overall Out	fall Characterization		
🗸 Unlikely	al (presence of two or more indic	cators) Suspect (one or more indicators with a severity of 3) Obvious	

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

Section 7: Data Collection

🗸 Unlikely

		Caulk dam
		lf Yes, type:
oN V		°N L
□ Yes	Flow	T Yes
. Sample for the lab?	. If yes, collected from:	. Intermittent flow trap set?
-1	~ ~	

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

Photo Log



Photo No. 1: WR48.JPG

Section 1: Background Data

Subwatershed:			Outfall ID: WR83	
Today's date: 05/09/16			Time (Military): 10:30AM	
Investigators: Jessica			Form completed by: Jessica	
Temperature (°F):		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9763723	Longitude: -	76.7571285	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP CMP PVC HDPE Steel Other:	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 48	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:	Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting san	nples)			
Flow Present?	Yes No If No, Sk	cip to Section 5			
Flow Description (If present)	Trickle Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes IN No. (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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

Photo Log

Photo No. 1: WR83.JPG



Section 1: Background Data

Subwatershed:			Outfall ID: WR84	
Today's date: 05/09/16			Time (Military):	
Investigators: Jessica			Form completed by: Jessica	
Temperature (°F):		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9811878	Longitude: -	76.7489369	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known): \	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 15	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes IN No. (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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

Photo Log

Photo No. 1: WR84.JPG



Section 1: Background Data

Subwatershed:			Outfall ID: WR85	
Today's date: 05/09/16			Time (Military): 9:20AM	
Investigators: Jessica			Form completed by: Jessica	
Temperature (°F):		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9828395	Longitude: -	76.7498676	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
			Known Industries:	
Notes (e.g., origin of outfall, if known):	York City			

Section 2: Outfall Description

LOCATION	MATEF	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 18	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes Ves	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)		Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes IN No. (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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

Photo Log





Section 1: Background Data

Subwatershed:		Outfall ID: WR86		
Today's date: 05/09/16		Time (Military): 9:30AM		
Investigators: Jessica		Form completed by: Jessica		
Temperature (°F): Rainfall (in.): Last 24 hours		rs: 0 Last 48 hours: 0		
Latitude: 39.9823542	ititude: 39.9823542 Longitude: -76.7495877		GPS Unit:	GPS LMK #:
Camera:		Photo #'s:		
Land Use in Drainage Area (Check all that apply):				
Industrial		Open Space		
Ultra-Urban Residential		Institutional		
Suburban Residential		Other:		
Commercial		Known Industries:		
Notes (e.g., origin of outfall, if known): \	York City			

Section 2: Outfall Description

LOCATION	MATEF	RIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 15	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting samples)					
Flow Present?	Yes Ves	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

	FIELD DATA FOR FLOWING OUTFALLS					
PARAMETER		RESULT	UNIT	EQUIPMENT		
Flow #1	Volume		Liter	Bottle		
I	Time to fill		Seconds			
	Flow depth		Inches	Tape measure		
Flow #2	Flow width		Inches	Tape measure		
-	Measured length		Inches	Tape measure		
	Time of travel		Seconds	Stop watch		
Temperature			۴	Thermometer		
	рН		pH Units	Test strip/Probe		
	Ammonia		mg/L	Test strip		

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes IN No. (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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

Photo Log

Photo No. 1: WR86.JPG



Section 1: Background Data

Subwatershed:		Outfall ID: CC48		
Today's date: 05/16/16		Time (Military): 9:00AM		
Investigators: Veronica Chavez		Form completed by: Veronica Chavez		
Temperature (°F): 47 Rainfall (in.): Last 24 hour		rs: 0 Last 48 hours: 0		
Latitude: 39.9630912	atitude: 39.9630912 Longitude: -76.7335598		GPS Unit:	GPS LMK #:
Camera:		Photo #'s:		
Land Use in Drainage Area (Check all that apply):				
Industrial		Open Space		
Ultra-Urban Residential		Institutional		
Suburban Residential		Other:		
Commercial		Known Industries:		
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 48	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting samples)					
Flow Present?	Yes N	o If No, Sk	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

	FIELD DATA FOR FLOWING OUTFALLS					
PARAMETER		RESULT	UNIT	EQUIPMENT		
Flow #1	Volume		Liter	Bottle		
I	Time to fill		Seconds			
	Flow depth		Inches	Tape measure		
Flow #2	Flow width		Inches	Tape measure		
	Measured length		Inches	Tape measure		
	Time of travel		Seconds	Stop watch		
Temperature			۴	Thermometer		
	рН		pH Units	Test strip/Probe		
	Ammonia		mg/L	Test strip		

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes Vo (If No, Skip to Section 5) °N N

X (1-3)	distance	3 - Clearly visible in outfall flow	🗖 3 - Opaque	 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
TIVE SEVERITY INDE	2 - Easily detected	☐ 2 - Clearly visible in sample bottle	🗖 2 - Cloudy	2 - Some; indications of origin (e.g., possible suds or oil sheen)
RELA	🗖 1 - Faint	☐ 1 - Faint colors in sample bottle	🗖 1 - Slight cloudiness	1 - Few/slight; origin not obvious
DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Yellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Juds Petroleum (oil sheen) Other:
CHECK if Present				
INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? TYES TONO (If No. 5kip to Section 6)

INDICATOR INDICATOR Outfall Damage Deposits/Stains Abnormal Vegetation Poor pool quality Pipe benthic growth	CHECK if Present	DESCRIPTION DESCRIPTION Spalling, Cracking or Chipping Peeling Paint Corrosion Corrosion Corrosion Corrosion Colly Flow Line Excessive Inhibited Codors Colors Suds Excessive Algae Brown Other:	COMMENTS
ection 6: Overall Outfal	ll Characterization		
Pipe benthic growth		Brown Crange Green Other:	
Poor pool quality		Suds Excessive Algae Other:	
-	Ĺ	Odors Colors Floatables Oil Sheen	
Abnormal Vegetation		Excessive Inhibited	
Deposits/Stains		Oily Flow Line Paint Other:	
Outfall Damage		Corrosion	
INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS

🗌 Unlikely

 \square Suspect (one or more indicators with a severity of 3) $oldsymbol{
abla}$ Potential (presence of two or more indicators)

Cobvious

Section 7: Data Collection

Sample for the lab? Yes No If yes, collected from: Flow Pool Intermittent flow trap set? Yes No If Yes, type:			
Sample for the lab? Yes No If yes, collected from: Flow Pool Intermittent flow trap set? Yes No If Yes, type:			OBM Caulk dam
Sample for the lab? Tes No If yes, collected from: Flow Po Intermittent flow trap set? Yes No		ol) If Yes, type: 🗖 (
Sample for the lab? Yes If yes, collected from: Flow Intermittent flow trap set? Yes	Ž	D Po	ž
Sample for the lab? If yes, collected from: Intermittent flow trap set?	T Yes	Flow	T Yes
	. Sample for the lab?	If yes, collected from:	8. Intermittent flow trap set?

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

Section 1: Background Data

Subwatershed:			Outfall ID: CC48	
Today's date: 08/24/16			Time (Military): 2:20PM	
Investigators: Veronica Chavez			Form completed by: Veronica Chavez	
Temperature (°F): 84		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9630912	Longitude: -	76.7335598	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all the	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known):	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 48	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	ıples)			
Flow Present?	Yes N	o If No, Sk	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes Vo (If No, Skip to Section 5) °N N

X (1-3)	distance	3 - Clearly visible in outfall flow	🗖 3 - Opaque	 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
TIVE SEVERITY INDE	2 - Easily detected	☐ 2 - Clearly visible in sample bottle	🗖 2 - Cloudy	2 - Some; indications of origin (e.g., possible suds or oil sheen)
RELA	🗖 1 - Faint	☐ 1 - Faint colors in sample bottle	🗖 1 - Slight cloudiness	1 - Few/slight; origin not obvious
DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Yellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Juds Petroleum (oil sheen) Other:
CHECK if Present				
INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? TYES TONO (If No. 5kip to Section 6)

INDICATOR INDICATOR Outfall Damage Deposits/Stains Abnormal Vegetation Poor pool quality Pipe benthic growth	CHECK if Present	DESCRIPTION DESCRIPTION Spalling, Cracking or Chipping Peeling Paint Corrosion Corrosion Corrosion Corrosion Colly Flow Line Excessive Inhibited Codors Colors Suds Excessive Algae Brown Other:	COMMENTS
ection 6: Overall Outfal	ll Characterization		
Pipe benthic growth		Brown Crange Green Other:	
Poor pool quality		Suds Excessive Algae Other:	
-	Ĺ	Odors Colors Floatables Oil Sheen	
Abnormal Vegetation		Excessive Inhibited	
Deposits/Stains		Oily Flow Line Paint Other:	
Outfall Damage		Corrosion	
INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS

🗌 Unlikely

 \square Suspect (one or more indicators with a severity of 3) $oldsymbol{
abla}$ Potential (presence of two or more indicators)

Cobvious

Section 7: Data Collection

Sample for the lab? Yes No If yes, collected from: Flow Pool Intermittent flow trap set? Yes No If Yes, type:			
Sample for the lab? Yes No If yes, collected from: Flow Pool Intermittent flow trap set? Yes No If Yes, type:			OBM Caulk dam
Sample for the lab? Tes No If yes, collected from: Flow Po Intermittent flow trap set? Yes No		ol) If Yes, type: 🗖 (
Sample for the lab? Yes If yes, collected from: Flow Intermittent flow trap set? Yes	Ž	D Po	ž
Sample for the lab? If yes, collected from: Intermittent flow trap set?	T Yes	Flow	T Yes
	. Sample for the lab?	If yes, collected from:	8. Intermittent flow trap set?

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

Section 1: Background Data

Subwatershed:			Outfall ID: CC108	
Today's date: 08/24/16			Time (Military): 1:09PM	
Investigators: Veronica Chavez and Jess	ica		Form completed by: Veronica Chavez ar	nd Jessica
Temperature (°F): 78		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9544533	Longitude: -	76.7314293	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all tha	at apply):			
Industrial			Open Space	
Ultra-Urban Residential			Institutional	
Suburban Residential			Other:	
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel Other: TCP		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 30	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when	collecting sam	iples)			
Flow Present?	Yes N	o If No, Sk	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes IN No. (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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

Section 1: Background Data

Subwatershed:		Outfall ID: CC110			
Today's date: 08/24/16		Time (Military): 1:10PM			
Investigators: Veronica Chavez		Form completed by: Veronica Chavez			
Temperature (°F): 78 Rainfall (in.): Last 24 hour		rs: 0 Last 48 hours: 0			
Latitude: 39.9544257	9.9544257 Longitude: -76.7314274		GPS Unit:	GPS LMK #:	
Camera:		Photo #'s:			
Land Use in Drainage Area (Check all tha	at apply):				
☐ Industrial		Open Space			
Ultra-Urban Residential					
Suburban Residential		Other:			
Commercial		Known Industries:			
Notes (e.g., origin of outfall, if known): York City					

Section 2: Outfall Description

LOCATION	MATERIAL		SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP C PVC F Steel ✓ Other: TCP	:MP IDPE	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 30	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting samples)					
Flow Present?	Yes No If No, Skip to Section 5					
Flow Description (If present)	Trickle Moderate Substantial					

	FIELD DATA FOR FLOWING OUTFALLS					
PARAMETER		RESULT	UNIT	EQUIPMENT		
Flow #1	Volume		Liter	Bottle		
I	Time to fill		Seconds			
	Flow depth		Inches	Tape measure		
Flow #2	Flow width		Inches	Tape measure		
Me	Measured length		Inches	Tape measure		
	Time of travel		Seconds	Stop watch		
	Temperature		۴	Thermometer		
	рН		pH Units	Test strip/Probe		
	Ammonia		mg/L	Test strip		

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes IN No. (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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

Photo Log

Photo No. 1: 160824.CC110.JPG



Section 1: Background Data

Subwatershed:		Outfall ID: PHR2		
Today's date: 08/30/16		Time (Military): 8:30AM		
Investigators: Veronica Chavez		Form completed by: Veronica Chavez		
Temperature (°F): 78 Rainfall (in.): Last 24 hour		rs: 0 Last 48 hours: 0		
Latitude: 39.9683275	Longitude: -76.7225739		GPS Unit:	GPS LMK #:
Camera:		Photo #'s:		
Land Use in Drainage Area (Check all that apply):				
☐ Industrial		Open Space		
Ultra-Urban Residential		Institutional		
Suburban Residential		Other:		
Commercial		Known Industries:		
Notes (e.g., origin of outfall, if known): York City				

Section 2: Outfall Description

LOCATION	MATERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED		
Closed Pipe	RCP CMP PVC HDPE Steel Other: concrete	Circular Elliptical Box Other:	Single	Diameter/Dimensions: 138 x 120	In Water: No Partially Fully With Sediment: No Partially Fully		
Open drainage	Concrete Earthen rip-rap Other:	Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:			
In-Stream	(applicable when collecting samples)						
Flow Present?	Yes No If No, Skip to Section 5						
Flow Description (If present)	Trickle Moderate Substantial						

	FIELD DATA FOR FLOWING OUTFALLS					
PARAMETER		RESULT	UNIT	EQUIPMENT		
Flow #1	Volume		Liter	Bottle		
Time to fill			Seconds			
	Flow depth		Inches	Tape measure		
Flow #2	Flow width		Inches	Tape measure		
Meas	Measured length		Inches	Tape measure		
	Time of travel		Seconds	Stop watch		
	Temperature		۴	Thermometer		
	рН		pH Units	Test strip/Probe		
	Ammonia		mg/L	Test strip		

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes Vo (If No, Skip to Section 5)

X (1-3)	distance	a - Clearly visible in outfall flow	🗖 3 - Opaque	 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
TIVE SEVERITY INDE	2 - Easily detected	2 - Clearly visible in sample bottle	🗖 2 - Cloudy	2 - Some; indications of origin (e.g., possible suds or oil sheen)
RELA	📘 1 - Faint	□ 1 - Faint colors in sample bottle	🗖 1 - Slight cloudiness	1 - Few/slight; origin not obvious
DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Yellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:
CHECK if Present				
INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? TYES TONO (If No. 5kip to Section 6)

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

Section 7: Data Collection

🗸 Unlikely

		OBM Caulk dam
	19	lf Yes, type:
°N D	Poo	°N L
T Yes	Elow	T Yes
Sample for the lab?	If yes, collected from:	Intermittent flow trap set?
÷	3	ы

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

Section 1: Background Data

Subwatershed:			Outfall ID: HR1		
Today's date: 09/15/16			Time (Military): 9:42AM		
Investigators: Veronica Chavez			Form completed by: Veronica Chavez		
Temperature (°F): 66 Rainfall (in.): Last 24 hours		rs: 0 Last 48 hours: 0			
Latitude: 39.9497549 Longitude: -76.7461336		GPS Unit:	GPS LMK #:		
Camera:		Photo #'s:			
Land Use in Drainage Area (Check all that apply):					
Industrial		Open Space			
Ultra-Urban Residential		Institutional			
Suburban Residential		Other:			
Commercial		Known Industries:			
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

LOCATION	MATERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP CMP PVC HDPE Steel Other: Concrete	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 96 x 72	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:	Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting samples)				
Flow Present?	Yes No If No, Sk	cip to Section 5			
Flow Description (If present)	Trickle Moderate	Substantial			

	FIELD DATA FOR FLOWING OUTFALLS				
P	ARAMETER	RESULT	UNIT	EQUIPMENT	
Flow #1	Volume		Liter	Bottle	
I	Time to fill		Seconds		
	Flow depth		Inches	Tape measure	
Flow #2	Flow width		Inches	Tape measure	
	Measured length		Inches	Tape measure	
	Time of travel		Seconds	Stop watch	
	Temperature		۴	Thermometer	
	рН		pH Units	Test strip/Probe	
	Ammonia		mg/L	Test strip	

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes VI No (If No, Skip to Section 5) ° N

X (1-3)	distance	outfall flow	🗖 3 - Opaque	 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
TIVE SEVERITY INDE	2 - Easily detected	□2 - Clearly visible in sample bottle	🗖 2 - Cloudy	2 - Some; indications of origin (e.g., possible suds or oil sheen)
RELA	1 - Faint	1 - Faint colors in sample bottle	🗖 1 - Slight cloudiness	1 - Few/slight; origin not obvious
DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Yellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Juds Petroleum (oil sheen) Other:
CHECK if Present				
INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? The section of the se

	<u>►</u>		
INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Controling, Cracking or Chipping Peeling Paint	
Deposits/Stains		Oily Flow Line Paint Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth	Þ	🗖 Brown 📄 Orange 🔽 Green 📄 Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Cobvious

Section 7: Data Collection

1. Sample for the lab?	☐ Yes	on N			
2. If yes, collected from:	Flow				
3. Intermittent flow trap set?	□ Yes	٥N	If Yes, type:	ОВМ	Caulk dam

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Follow up required - excessive algae growth indicates nutrient pollutants. Recheck. No physical indicators in section 4

Section 1: Background Data

Subwatershed:			Outfall ID: PHR36		
Today's date: 11/08/16			Time (Military): 2:33PM		
Investigators: Lettice Brown and Veroni	ica Chavez		Form completed by: Lettice Brown and Veronica Chavez		
Temperature (°F): 66 Rainfall (in.): Last 24 hours		rs: 0 Last 48 hours: 0			
Latitude: 39.9565683 Longitude: -76.7148867		GPS Unit:	GPS LMK #:		
Camera:		Photo #'s:			
Land Use in Drainage Area (Check all that apply):					
Industrial		Open Space			
Ultra-Urban Residential		Institutional			
Suburban Residential		Other:			
Commercial		Known Industries:			
Notes (e.g., origin of outfall, if known):	York City				

Section 2: Outfall Description

LOCATION	MATER	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 16	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting samples)					
Flow Present?	Yes N	o <i>lf No, Sk</i>	ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

	FIELD DATA FOR FLOWING OUTFALLS				
P	ARAMETER	RESULT	UNIT	EQUIPMENT	
Flow #1	Volume		Liter	Bottle	
	Time to fill		Seconds		
	Flow depth		Inches	Tape measure	
Flow #2	Flow width		Inches	Tape measure	
	Measured length		Inches	Tape measure	
	Time of travel		Seconds	Stop watch	
	Temperature		۴	Thermometer	
	рН		pH Units	Test strip/Probe	
	Ammonia		mg/L	Test strip	

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes Vo (If No, Skip to Section 5)

X (1-3)	distance	a - Clearly visible in outfall flow	🗖 3 - Opaque	 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
TIVE SEVERITY INDE	2 - Easily detected	2 - Clearly visible in sample bottle	🗖 2 - Cloudy	2 - Some; indications of origin (e.g., possible suds or oil sheen)
RELA	📘 1 - Faint	□ 1 - Faint colors in sample bottle	🗖 1 - Slight cloudiness	1 - Few/slight; origin not obvious
DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Yellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:
CHECK if Present				
INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? TYES TONO (If No. 5kip to Section 6)

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

Section 7: Data Collection

🗸 Unlikely

		OBM Caulk dam
	19	lf Yes, type:
°N D	Poo	°N L
T Yes	Elow	T Yes
Sample for the lab?	If yes, collected from:	Intermittent flow trap set?
÷	3	ы

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?
Section 1: Background Data

Subwatershed:		Outfall ID: PHR38			
Today's date: 11/08/16		Time (Military): 2:15PM			
Investigators: Lettice Brown and Veronica Chavez		Form completed by: Lettice Brown and Veronica Chavez			
Temperature (°F): 66 Rainfall (in.): Last 24 hour		rs: 0 Last 48 hours: 0			
Latitude: 39.9556059	239.9556059 Longitude: -76.7141356		GPS Unit:	GPS LMK #:	
Camera:			Photo #'s:		
Land Use in Drainage Area (Check all tha	at apply):				
☐ Industrial		Open Space			
Ultra-Urban Residential					
Suburban Residential		Other:			
Commercial		Known Industries:			
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

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

	FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER RESULT		RESULT	UNIT	EQUIPMENT	
Flow #1	Volume		Liter	Bottle	
	Time to fill		Seconds		
	Flow depth		Inches	Tape measure	
Flow #2	Flow width		Inches	Tape measure	
	Measured length		Inches	Tape measure	
	Time of travel		Seconds	Stop watch	
	Temperature		۴	Thermometer	
	рН		pH Units	Test strip/Probe	
	Ammonia		mg/L	Test strip	

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes Vo. (If No, Skip to Section 5)

X (1-3)	distance	3 - Clearly visible in outfall flow	🗖 3 - Opaque	 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
TIVE SEVERITY INDE	2 - Easily detected	☐ 2 - Clearly visible in sample bottle	🗖 2 - Cloudy	2 - Some; indications of origin (e.g., possible suds or oil sheen)
RELA	🗖 1 - Faint	☐ 1 - Faint colors in sample bottle	🗖 1 - Slight cloudiness	1 - Few/slight; origin not obvious
DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Yellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:
CHECK if Present				
INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? J Yes INO (If No. Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Corrosion	
Deposits/Stains		📔 Oily 📃 Flow Line 📕 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		🗖 Brown 🗖 Orange 🔽 Green 🗖 Other:	Moss
Section 6: Overall Out	tfall Characterization		

 \Box Potential (presence of two or more indicators) \Box Suspect (one or more indicators with a severity of 3)

Section 7: Data Collection

🗸 Unlikely

		DBM Caulk dam
0	00	lo If Yes, type: 🗖 C
S N N	w D	N N N
۲e:	L FIC	۲e ۲e
l. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?
1	~	0

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

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Section 1: Background Data

	Outfall ID: PHR50		
Time (Military): 2:57PM	Time (Military): 2:57PM		
Form completed by: Lettice Brown and Ver	Form completed by: Lettice Brown and Veronica Chavez		
st 24 hours: 0 Last 48 hours: 0	rs: 0 Last 48 hours: 0		
GPS Unit: G	SPS LMK #:		
Photo #'s:	Photo #'s:		
Open Space	Open Space		
Institutional	Institutional		
Other:	Other:		
Known Industries:	Known Industries:		
	Time (Military): 2:57PM Form completed by: Lettice Brown and Ver Last 24 hours: 0 GPS Unit: Photo #'s: Open Space Institutional Other: Known Industries:		

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED	
Closed Pipe	RCP CMP PVC HDPE Steel Other:	Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions: 42	In Water: No Partially Fully With Sediment: No Partially Fully	
Open drainage	Concrete Earthen rip-rap Other:	Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:		
In-Stream	(applicable when collecting samples)					
Flow Present?	Yes No If No, Skip to Section 5					
Flow Description (If present)	Trickle Substantial					

	FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER RESULT		RESULT	UNIT	EQUIPMENT	
Flow #1	Volume		Liter	Bottle	
	Time to fill		Seconds		
	Flow depth		Inches	Tape measure	
Flow #2	Flow width		Inches	Tape measure	
	Measured length		Inches	Tape measure	
	Time of travel		Seconds	Stop watch	
	Temperature		۴	Thermometer	
	рН		pH Units	Test strip/Probe	
	Ammonia		mg/L	Test strip	

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes Vo (If No, Skip to Section 5)

X (1-3)	distance	a - Clearly visible in outfall flow	🗖 3 - Opaque	 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
TIVE SEVERITY INDE	2 - Easily detected	2 - Clearly visible in sample bottle	🗖 2 - Cloudy	2 - Some; indications of origin (e.g., possible suds or oil sheen)
RELA	📘 1 - Faint	□ 1 - Faint colors in sample bottle	🗖 1 - Slight cloudiness	1 - Few/slight; origin not obvious
DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Yellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:
CHECK if Present				
INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? TYES TONO (If No. Skip to Section 6)

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

Section 7: Data Collection

🗸 Unlikely

		OBM Caulk dam
	19	lf Yes, type:
°N D	Poo	°N L
T Yes	Elow	T Yes
Sample for the lab?	If yes, collected from:	Intermittent flow trap set?
÷	3	ы

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

Section 1: Background Data

Subwatershed:			Outfall ID: TR7	
Today's date: 11/08/16			Time (Military): 3:15PM	
Investigators: Lettice Brown and Veroni	ica Chavez		Form completed by: Lettice Brown and	Veronica Chavez
Temperature (°F): 66		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9495404	Longitude: -	76.7316789	GPS Unit:	GPS LMK #:
Camera:			Photo #'s:	
Land Use in Drainage Area (Check all th	at apply):			
🗖 Industrial			Open Space	
Ultra-Urban Residential		Institutional		
Suburban Residential		Other:		
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATERIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP CMP PVC HDPE Steel Other:	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 36	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:	Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting sar	nples)			
Flow Present?	Yes No If No, Si	kip to Section 5			
Flow Description (If present)	Trickle	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? Yes Vo (If No, Skip to Section 5)

X (1-3)	distance	a - Clearly visible in outfall flow	🗖 3 - Opaque	 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
TIVE SEVERITY INDE	2 - Easily detected	2 - Clearly visible in sample bottle	🗖 2 - Cloudy	2 - Some; indications of origin (e.g., possible suds or oil sheen)
RELA	📘 1 - Faint	□ 1 - Faint colors in sample bottle	🗖 1 - Slight cloudiness	1 - Few/slight; origin not obvious
DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Yellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:
CHECK if Present				
INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? TYES TONO (If No. Skip to Section 6)

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

Section 7: Data Collection

🗸 Unlikely

		OBM Caulk dam
	19	lf Yes, type:
°N D	Poo	°N L
T Yes	Elow	T Yes
Sample for the lab?	If yes, collected from:	Intermittent flow trap set?
÷	3	ы

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

Section 1: Background Data

Subwatershed:			Outfall ID: MCSG1	Outfall ID: MCSG1	
Today's date: 11/28/16			Time (Military): 1:05PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 50		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0		
Latitude: 39.9742971	Longitude: -	76.7122859	GPS Unit:	GPS LMK #:	
Camera:			Photo #'s:		
Land Use in Drainage Area (Check all tha	at apply):				
Industrial			Open Space		
Ultra-Urban Residential		Institutional			
Suburban Residential		Other:			
Commercial		Known Industries:			
Notes (e.g., origin of outfall, if known): `	York City to O	ther Muni			

Section 2: Outfall Description

LOCATION	MATERIA	۱L	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel	CMP HDPE	Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions:	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when coll	lecting sam	ples)			
Flow Present?	Yes No	lf No, Sk	ip to Section 5			
Flow Description (If present)	Trickle Mod	derate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELA'	TIVE SEVERITY INDEY	((1-3)
Odor		Sewage Rancid/sour Petroleum/gas	🔽 1 - Faint	2 - Easily detected	3 - Noticeable from a distance
Color		Clear Brown Gray Yellow Green Orange Red Other:	☐ 1 - Faint colorsin sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbididy		See severity	🗖 1 - Slight cloudiness	🗖 2 - Cloudy	🗌 3 - Opaque
Floatables -Does Not Include Trash!!		 Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other: 	1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	 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 Arephysical indicators that are not related to flow present? TYes JNo (If No. Skip to Section 6)

COMMENTS						
DESCRIPTION	Corrosion	📔 Oily 📄 Flow Line 📄 Paint 📄 Other:	Excessive Inhibited	Colors Colors Floatables Oil Sheen Suds Excessive Algae Other:	📕 Brown 📄 Orange 📄 Green 📄 Other:	
CHECK if Present						fall Characterization
INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Out

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

Section 7: Data Collection

🗸 Unlikely

1. Sample for the lab?	T Yes	°N N			
2. If yes, collected from:	Flow	Pool			
3. Intermittent flow trap set?	T Yes	٥N	lf Yes, type:	П ОВМ	Caulk dam

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Leaves and mud totally covering storm drain, needs cleaned.

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Photo No. 1: image.jpg



Photo No. 2: image.jpg



Section 1: Background Data

Subwatershed:			Outfall ID: MCSG2	
Today's date: 11/28/16			Time (Military): 1:15PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 51		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9755023	Longitude: -	76.7068640	GPS Unit:	GPS LMK #:
Camera:		Photo #'s:		
Land Use in Drainage Area (Check all that apply):				
Industrial		Open Space		
Ultra-Urban Residential		Institutional		
Suburban Residential		Other:		
Commercial			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City to O	ther Muni		

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions:	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting samples)					
Flow Present?	Yes N	o <i>If No, Sk</i>	(ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

	FIELD DATA FOR FLOWING OUTFALLS					
P	ARAMETER	RESULT	UNIT	EQUIPMENT		
Flow #1	Volume		Liter	Bottle		
	Time to fill		Seconds			
	Flow depth		Inches	Tape measure		
Flow #2	Flow width		Inches	Tape measure		
	Measured length		Inches	Tape measure		
	Time of travel		Seconds	Stop watch		
Temperature			۴	Thermometer		
	рН		pH Units	Test strip/Probe		
	Ammonia		mg/L	Test strip		

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 Bewage Rancid/sour Petroleum/gas Sulfide Other: 0	RELA'	TIVE SEVERITY INDE	((1-3)
Color Tbididu		Clear Brown Gray Vellow Green Orange Red Other:	 1 - Faint colors in sample bottle 1 - Slight cloudiness 	2 - Clearly visible in sample bottle 5 - Cloudv	3 - Clearly visible in outfall flow 7 - Obadue
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other:	1 - Few/slight; origin not obvious	 2 - Some; indications of origin (e.g., possible suds or oil sheen) 	 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 Arephysical indicators that are not related to flow present? J Yes INO (If No. Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Corrosion	
Deposits/Stains		🗖 Oily 📄 Flow Line 📘 Paint 🛛 Other: Old pipe dirt	Pipe is crinkled. Some old rust
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Crange Green Other:	
Section 6: Overall Out	ffall Characterization		

 \Box Potential (presence of two or more indicators) \Box Suspect (one or more indicators with a severity of 3)

Section 7: Data Collection

🗸 Unlikely

		Caulk dam
		П овм
		lf Yes, type:
oN 🔽		°N L
□ Yes	Flow	T Yes
1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

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

Photo No. 1: image.jpg



Section 1: Background Data

Subwatershed:			Outfall ID: MC2	
Today's date: 11/28/16			Time (Military): 1:20PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 48		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9748806	Longitude: -	76.7039027	GPS Unit:	GPS LMK #:
Camera:		Photo #'s:		
Land Use in Drainage Area (Check all that apply):				
☐ Industrial		Open Space		
Ultra-Urban Residential		Institutional		
Suburban Residential		Other:		
			Known Industries:	
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

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

	FIELD DATA FOR FLOWING OUTFALLS					
P	ARAMETER	RESULT	UNIT	EQUIPMENT		
Flow #1	Volume		Liter	Bottle		
	Time to fill		Seconds			
	Flow depth		Inches	Tape measure		
Flow #2	Flow width		Inches	Tape measure		
	Measured length		Inches	Tape measure		
	Time of travel		Seconds	Stop watch		
Temperature			۴	Thermometer		
	рН		pH Units	Test strip/Probe		
	Ammonia		mg/L	Test strip		

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELA'	TIVE SEVERITY INDEY	((1-3)
Odor		Sewage Rancid/sour Petroleum/gas	🔽 1 - Faint	2 - Easily detected	3 - Noticeable from a distance
Color		Clear Brown Gray Yellow Green Orange Red Other:	☐ 1 - Faint colorsin sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbididy		See severity	🗖 1 - Slight cloudiness	🗖 2 - Cloudy	🗌 3 - Opaque
Floatables -Does Not Include Trash!!		 Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other: 	1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	 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 Arephysical indicators that are not related to flow present? TYes JNo (If No. Skip to Section 6)

COMMENTS						
DESCRIPTION	Corrosion	📔 Oily 📄 Flow Line 📄 Paint 📄 Other:	Excessive Inhibited	Colors Colors Floatables Oil Sheen Suds Excessive Algae Other:	📕 Brown 📄 Orange 📄 Green 📄 Other:	
CHECK if Present						fall Characterization
INDICATOR	Outfall Damage	Deposits/Stains	Abnormal Vegetation	Poor pool quality	Pipe benthic growth	Section 6: Overall Out

Potential (presence of two or more indicators)

Cobvious

Section 7: Data Collection

🗸 Unlikely

		t dam
		If Yes, type:
on N		°N L
□ Yes	Flow	T Yes
1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Pipe is cracked and leaf debris inside of pipe, otherwise its fine

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Photo No. 1: image.jpg



Section 1: Background Data

Subwatershed:			Outfall ID: MC3	
Today's date: 11/28/16			Time (Military): 1:25PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 49		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0	
Latitude: 39.9750765	Longitude: -	76.7024704	GPS Unit:	GPS LMK #:
Camera:		Photo #'s:		
Land Use in Drainage Area (Check all that apply):				
Industrial			Open Space	
Ultra-Urban Residential		Institutional		
Suburban Residential		Other:		
Commercial		Known Industries:		
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple	Diameter/Dimensions:	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete		Trapezoid		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting samples)					
Flow Present?	Yes N	o <i>lf No, Sk</i>	(ip to Section 5			
Flow Description (If present)	Trickle	Moderate	Substantial			

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 78 No 11 No. 34 pto Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELA'	TIVE SEVERITY INDEX	((1-3)
Odor		Sewage Rancid/sour Petroleum/gas	🗖 1 - Faint	2 - Easily detected	3 - Noticeable from a distance
Color		Clear Brown Gray Vellow Green Orange Ceed Other:	1 - Faint colors in sample bottle	2 - Clearly visible in sample bottle	☐ 3 - Clearly visible in outfall flow
Turbididy		See severity	🗖 1 - Slight cloudiness	🗖 2 - Cloudy	🗖 3 - Opaque
Floatables -Does Not Include Trash!!		 Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other: 	1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	3 - Some; origin clear (eg., obvious oil sheen, suds, or floating sanitary materials)

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? TYes JNo (If No. Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Corrosion	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		🗖 Brown 🔰 Orange 📘 Green	
Section 6: Overall Out	fall Characterization		

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

Cobvious

Section 7: Data Collection

🗸 Unlikely

Caulk dam	lf Yes, type:	°N L	T Yes	. Intermittent flow trap set?	З.
		Pool	Flow	. If yes, collected from:	5
		o N	T Yes	. Sample for the lab?	1.

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Needs cleaned of leaf debris, could cause a clog

Photo No. 1: image.jpg



Section 1: Background Data

Subwatershed:			Outfall ID: MC1	Outfall ID: MC1	
Today's date: 11/28/16			Time (Military): 1:35PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 49		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0		
Latitude: 39.9759373	Longitude: -	76.7040467	GPS Unit:	GPS LMK #:	
Camera:		Photo #'s:			
Land Use in Drainage Area (Check all that apply):					
ndustrial			Open Space		
Ultra-Urban Residential		Institutional			
Suburban Residential		Other:			
Commercial			Known Industries:		
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

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

		FIELD DATA FOR FLOWIN	G OUTFALLS	
P	ARAMETER	RESULT	UNIT	EQUIPMENT
Flow #1	Volume		Liter	Bottle
I	Time to fill		Seconds	
	Flow depth		Inches	Tape measure
Flow #2	Flow width		Inches	Tape measure
-	Measured length		Inches	Tape measure
	Time of travel		Seconds	Stop watch
	Temperature		۴	Thermometer
	рН		pH Units	Test strip/Probe
	Ammonia		mg/L	Test strip

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

Outfall Reconnaissance Inventory Field Sheet

° L

INDICATOR	CHECK if Present	DESCRIP	TION	RELAT	TIVE SEVERITY INDEX	((1-3)
Odor		Sewage Rancid/sour P Sulfide Other:	etroleum/gas	🗖 1 - Faint	2 - Easily detected	3 - Noticeable from a distance
Color		Clear Brown C G	sray Tellow ted Other:	1 - Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbididy		See sever	rity	🗖 1 - Slight cloudiness	🗖 2 - Cloudy	🗖 3 - Opaque
Floatables -Does Not Include Trash!!		Sewage (Toilet Paper, etc.)	uds tther:	1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	 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 Arephysical indicators that are not related to flow present? J Yes INO (If No. Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Corrosion	
Deposits/Stains		Oily Flow Line Paint 🗸 Other: Sediment and leaves	ool of water particially submerges the pipe, no flow
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	Ifall Characterization		

 \square Suspect (one or more indicators with a severity of 3) Potential (presence of two or more indicators)

Cobvious

Section 7: Data Collection

🗸 Unlikely

		Caulk dam
		П овм
		lf Yes, type:
oN V		°N L
T Yes	Flow	T Yes
Sample for the lab?	If yes, collected from:	Intermittent flow trap set?
1	7	e

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

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Photo No. 1: image.jpg



Section 1: Background Data

Subwatershed:		Subwatershed:		Outfall ID: PHR54		
Today's date: 11/28/16		Time (Military): 1:55PM				
Investigators: Lettice Brown			Form completed by: Lettice Brown			
Temperature (°F): 50		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0			
Latitude: 39.9526831	Latitude: 39.9526831 Longitude: -76.7104372		GPS Unit:	GPS LMK #:		
Camera:		Photo #'s:				
Land Use in Drainage Area (Check all that apply):						
Industrial		Open Space				
Ultra-Urban Residential		Institutional				
Suburban Residential		Other:				
Commercial		Known Industries:				
Notes (e.g., origin of outfall, if known): `	York City					

Section 2: Outfall Description

LOCATION	MATER	IAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED	
Closed Pipe	RCP PVC Steel		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions:	In Water: No Partially Fully With Sediment: No Partially Fully	
♥ Open drainage	Concrete Earthen rip-rap Other:		Trapezoid		Depth: Top Width: Bottom Width:		
In-Stream	(applicable when collecting samples)						
Flow Present?	Yes No If No, Skip to Section 5						
Flow Description (If present)	Trickle	Aoderate	Substantial				

	FIELD DATA FOR FLOWING OUTFALLS					
PARAMETER		RESULT	UNIT	EQUIPMENT		
Flow #1	Volume		Liter	Bottle		
I	Time to fill		Seconds			
	Flow depth		Inches	Tape measure		
Flow #2	Flow width		Inches	Tape measure		
-	Measured length		Inches	Tape measure		
	Time of travel		Seconds	Stop watch		
	Temperature		۴	Thermometer		
	рН		pH Units	Test strip/Probe		
	Ammonia		mg/L	Test strip		

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Are physical indicators that are not related to flow present? Yes Vo. 1000 (If No, 5kip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Spalling, Cracking or Chipping Peeling Paint	
Deposits/Stains		🗖 Oily 📘 Flow Line 📘 Paint 📄 Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	tfall Characterization		

🗸 Unlikely

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

Section 7: Data Collection

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

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Photo No. 1: image.jpg



Photo No. 2: image.jpg



Section 1: Background Data

Subwatershed:			Outfall ID: PHR55		
Today's date: 11/28/16			Time (Military): 2:00PM		
Investigators: Lettice Brown			Form completed by: Lettice Brown		
Temperature (°F): 51		Rainfall (in.): Last 24 hour	rs: 0 Last 48 hours: 0		
Latitude: 39.9526494	Longitude: -	76.7103407	GPS Unit:	GPS LMK #:	
Camera:		Photo #'s:			
Land Use in Drainage Area (Check all that apply):					
Industrial		Open Space			
Ultra-Urban Residential		Institutional			
Suburban Residential		Other:			
Commercial		Known Industries:			
Notes (e.g., origin of outfall, if known): `	York City				

Section 2: Outfall Description

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

	FIELD DATA FOR FLOWING OUTFALLS					
PARAMETER		RESULT	UNIT	EQUIPMENT		
Flow #1	Volume		Liter	Bottle		
I	Time to fill		Seconds			
	Flow depth		Inches	Tape measure		
Flow #2	Flow width		Inches	Tape measure		
-	Measured length		Inches	Tape measure		
	Time of travel		Seconds	Stop watch		
Temperature			۴	Thermometer		
	рН		pH Units	Test strip/Probe		
	Ammonia		mg/L	Test strip		

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

X (1-3)	distance	3 - Clearly visible in outfall flow	🗖 3 - Opaque	 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)
TIVE SEVERITY INDE	2 - Easily detected	□2 - Clearly visible in sample bottle	🗖 2 - Cloudy	2 - Some; indications of origin (e.g., possible suds or oil sheen)
RELA	🗖 1 - Faint	□ 1 - Faint colors in sample bottle	🗖 1 - Slight cloudiness	1 - Few/slight; origin not obvious
DESCRIPTION	Sewage Rancid/sour Petroleum/gas	Clear Brown Gray Yellow Green Orange Red Other:	See severity	Sewage (Toilet Paper, etc.) Juds Petroleum (oil sheen) Other:
CHECK if Present				
INDICATOR	Odor	Color	Turbididy	Floatables -Does Not Include Trash!!

Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls Arephysical indicators that are not related to flow present? TYes JNo (If No. Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		C Spalling, Cracking or Chipping Peeling Paint Corrosion	
Deposits/Stains		Oily Flow Line Paint Other:	
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Out	ffall Characterization		

 \Box Potential (presence of two or more indicators) \Box Suspect (one or more indicators with a severity of 3)

Cobvious

Section 7: Data Collection

🗸 Unlikely

		vi 🗖 Caulk dam
	10	lf Yes, type: 🛛 OBN
°N D		°N
□ Yes	Flow	T Yes
. Sample for the lab?	If yes, collected from:	8. Intermittent flow trap set?
-		

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? Lots of tree and leaf debris but water should still be able to flow

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Photo No. 1: image.jpg





Photo No. 2: image.jpg

Section 1: Background Data

Subwatershed:			Outfall ID: PHR56	
Today's date: 11/28/16			Time (Military): 2:05PM	
Investigators: Lettice Brown			Form completed by: Lettice Brown	
Temperature (°F): 51 Rainfall (in.): Last 24 hour		rs: 0 Last 48 hours: 0		
Latitude: 39.9527285 Longitude: -76.7102593		GPS Unit:	GPS LMK #:	
Camera:		Photo #'s:		
Land Use in Drainage Area (Check all that apply):				
Industrial		Open Space		
Ultra-Urban Residential				
Suburban Residential		Other:		
		Known Industries:		
Notes (e.g., origin of outfall, if known): `	York City			

Section 2: Outfall Description

LOCATION	MATE	RIAL	SH	APE	DIMENSIONS (IN.)	SUBMERGED
Closed Pipe	CP PVC Steel ✓ Other: SLPP		Circular Elliptical Box Other:	Single Double Triple Other:	Diameter/Dimensions: 15	In Water: No Partially Fully With Sediment: No Partially Fully
Open drainage	Concrete Earthen rip-rap Other:		Trapezoid Parabolic Other:		Depth: Top Width: Bottom Width:	
In-Stream	(applicable when collecting samples)					
Flow Present?	Yes No If No, Skip to Section 5					
Flow Description (If present)	Trickle Moderate Substantial					

	FIELD DATA FOR FLOWING OUTFALLS					
P	ARAMETER	RESULT	UNIT	EQUIPMENT		
Flow #1	Volume		Liter	Bottle		
I	Time to fill		Seconds			
	Flow depth		Inches	Tape measure		
Flow #2	Flow width		Inches	Tape measure		
-	Measured length		Inches	Tape measure		
	Time of travel		Seconds	Stop watch		
	Temperature		۴	Thermometer		
	рН		pH Units	Test strip/Probe		
	Ammonia		mg/L	Test strip		

Section 4: Physical Indicators for Flowing Outfalls Only Are Any Physical Indicators Present in the flow? 7 Yes 7 No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELA'	TIVE SEVERITY INDE)	((1-3)
Odor		Sewage Rancid/sour Petroleum/gas	1 - Faint	2 - Easily detected	🔲 3 - Noticeable from a distance
Color		Clear Brown Gray Vellow Green Orange Red Other:	☐ 1 - Faint colors in sample bottle	2 - Clearly visible in sample bottle	3 - Clearly visible in outfall flow
Turbididy		See severity	🗖 1 - Slight cloudiness	🗖 2 - Cloudy	🗖 3 - Opaque
Floatables -Does N ot Include Trash!!		 Sewage (Toilet Paper, etc.) Suds Petroleum (oil sheen) Other: 	1 - Few/slight; origin not obvious	2 - Some; indications of origin (e.g., possible suds or oil sheen)	 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 Arephysical indicators that are not related to flow present? J Yes I No. *(if No. Skip to Section 6*)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage		Corrosion	
Deposits/Stains		🗌 Oily 📄 Flow Line 📄 Paint 🔽 Other: Dirt	Dirt stains
Abnormal Vegetation		Excessive Inhibited	
Poor pool quality		Odors Colors Floatables Oil Sheen Suds Excessive Algae Other:	
Pipe benthic growth		Brown Orange Green Other:	
Section 6: Overall Ou	tfall Characterization		
Unlikely	ial (presence of two or more indic	cators) Suspect (one or more indicators with a severity of 3) Obv	vious

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

Section 7: Data Collection

🗸 Unlikely

		BM 🗖 Caulk dam
		lf Yes, type:
°N D		°N L
□ Yes	Flow	T Yes
1. Sample for the lab?	2. If yes, collected from:	3. Intermittent flow trap set?

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

Photo No. 1: image.jpg



38 North Duke Street York, PA 17401 (717) 846-4805 FAX (717) 846-5811



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June 23, 2016

Mr. Scott Williamson Pennsylvania Department of Environmental Protection Southcentral Regional Office 909 Elmerton Avenue Harrisburg, PA 17109

Re: Act 167 Stormwater Management Ordinance Adoption City of York, York County, PA Engineer's File No. 0407.5.21.00

Dear Mr. Williamson:

In the event that notification has not been previously provided, please allow this letter to serve as official correspondence that the City of York adopted a new stormwater management ordinance on October 4, 2011. This ordinance was passed as Ordinance No. 32-2011 and is consistent with the requirements of the York County Act 167 Model Stormwater Management Ordinance. A copy of the ordinance is attached for your records.

If you have any questions, please contact me at the number above.

Sincerely,

C.S. Davidson, Inc Jeffre Shue.

JSS/DJR/cmd Copy: File

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JSS/DJR/cmd Copy: File

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ARTICLE 935 General Provisions

- 935.01 Short title.
- 935.02 Statement of findings.
- 935.03 Purpose.
- 935.04 Statutory authority.
- 935.05 Applicability.
- 935.06 Repealer.
- 935.07 Severability.
- 935.01 SHORT TITLE.

This Title Four of the Streets, Utilities and Public Services Code shall be known and may be cited as the "City of York Stormwater Management Ordinance." (Ord. 32-2011. Passed 10-4-11.)

935.02 STATEMENT OF FINDINGS.

- The City Council of the City of York finds that:
- (a) 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 flood plain management and flood control efforts in downstream communities, reduces groundwater recharge, threatens public health and safety, and increases non-point source pollution of water resources.
- (b) A comprehensive program of stormwater management, including reasonable regulation of development and activities causing accelerated runoff, is fundamental to the public health, safety, and welfare and the protection of people of the Commonwealth, their resources, and the environment.
- (c) 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.
- (d) Federal and state regulations require certain municipalities to implement a program of stormwater controls. These municipalities are required to obtain a permit for stormwater discharges from their separate storm sewer systems under the National Pollutant Discharge Elimination System (NPDES).
 (Ord. 32-2011. Passed 10-4-11.)

935.03 PURPOSE.

The purpose of this Ordinance is to promote health, safety, and welfare within the Municipality and its watershed(s) by minimizing the harm and maximizing the benefits described in Section 935.02, through provisions designed to:

- (a) Meet legal water quality requirements under state law, including regulations at 25 Pa. Code 93 to protect, maintain, reclaim, and restore the existing and designated uses of the waters of this Commonwealth.
- (b) Preserve the natural drainage systems as much as possible.
- (c) Manage stormwater runoff close to the source.
- (d) Provide procedures and performance standards for stormwater planning and management.
- (e) Maintain groundwater recharge to prevent degradation of surface and groundwater quality and to otherwise protect water resources.
- (f) Prevent scour and erosion of stream banks and stream beds.
- (g) Provide proper operation and maintenance of all SWM BMPs that are implemented within the municipality.
- (h) Provide standards to meet NPDES permit requirements. (Ord. 32-2011. Passed 10-4-11.)

935.08 Compatibility with other permit and ordinance requirements.
935.09 Interpretation.
935.10 Erroneous permit.

935.04 STATUTORY AUTHORITY.

(a) <u>Primary Authority:</u> The Municipality is empowered to regulate land use activities that affect stormwater impacts by the authority of the Third Class City Code and the Act of October 4, 1978, P.L. 864 (Act 167), 32 P.S. Section 680.1, et seq., as amended, the "Stormwater Management Act."

(b) <u>Secondary Authority:</u> The Municipality is also empowered to regulate land use activities that affect runoff by the authority of the Act of July 31, 1968, P.L. 805, No. 247, The Pennsylvania Municipalities Planning Code, as amended. (Ord. 32-2011. Passed 10-4-11.)

935.05 APPLICABILITY.

All regulated activities and all activities that may affect stormwater runoff, including land development and earth disturbance activity, are subject to regulation by this article. Article 942, Detention and Elimination of Illicit Discharges to the Municipal Separate Storm Sewer System, shall be applicable to all water entering the storm drain system of the Municipality generated on any developed and undeveloped lands unless explicitly exempted by the Municipality. (Ord. 32-2011. Passed 10-4-11.)

935.06 REPEALER.

Any other ordinance provision or regulation of the Municipality 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.

(Ord. 32-2011. Passed 10-4-11.)

935.07 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.

(Ord. 32-2011. Passed 10-4-11.)

935.08 COMPATIBILITY WITH OTHER PERMIT AND ORDINANCE REQUIREMENTS.

Permits and approvals issued pursuant to this Ordinance do not relieve the applicant of the responsibility to secure required permits or approvals for activities regulated by any other applicable code, rule, act or ordinance. If more stringent requirements concerning regulation of stormwater or erosion and sedimentation control are contained in another code, rule, act or ordinance, the more stringent regulations shall apply

(Ord. 32-2011. Passed 10-4-11.)

935.09 INTERPRETATION.

Unless otherwise expressly stated, the succeeding shall, for the purposes of this Ordinance, be interpreted in the following manner:

- (a) Words used in the present tense also imply the future tense.
- (b) Words used in the singular imply the plural, and vice versa.
- (c) Words of masculine gender include feminine gender, and vice versa.
- (d) The words and abbreviation "includes," "including," "shall include," "such as," and "e.g." are not limited to the specific example(s) given but are intended to extend the word's or words' meaning(s) to all other instances of like kind and character.
- (e) The words "person", "applicant", or "developer" include, a partnership, corporation, or other legal entity, as well as an individual.
- (f) The words "shall", "required", or "must" are mandatory; the words "may" and "should" are permissive.

(Ord. 32-2011. Passed 10-4-11.)

935.10 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 a board, agency or employee of the Municipality purporting to validate such a violation.

(Ord. 32-2011. Passed 10-4-11.)

936.01 Definitions.

936.01 DEFINITIONS.

(a) **Accelerated Erosion** - The removal of the surface of the land through the combined action of man's activities and natural processes at a rate greater than would occur because of the natural process alone.

(b) Act 167 - Act of October 4, 1978, P.L.864, (Act 167), as amended, and known as the "Stormwater Management Act".

(c) **Agricultural Activity** - Activities associated with agriculture such as, but not limited to, agricultural cultivation, agricultural operations, and animal heavy use areas. This includes the work of producing crops including tillage, land clearing, plowing, disking, harrowing, planting, harvesting crops or pasturing and raising of livestock and installation of conservation measures. Construction of new buildings or impervious area is not considered an agricultural activity.

(d) **Applicant** - A landowner, developer, or other person who has filed an application to the municipality for approval to engage in any regulated activity at a project site in the Municipality.

(e) **Best Management Practice (BMP)** - Activities, facilities, designs, measures, or procedures used to manage stormwater impacts from regulated activities, to meet state water quality requirements, to promote groundwater recharge, and to otherwise meet the purposes of this Ordinance. Stormwater BMPs are commonly grouped into one of two broad categories or measures: "structural" or "nonstructural." In this Ordinance, nonstructural BMPs or measures refer to operational and/or behavior-related practices that attempt to minimize the contact of pollutants with stormwater runoff whereas structural BMPs or measures are those that consist of a physical device or practice that is installed to capture and treat stormwater runoff. Structural BMPs include, but are not limited to, a wide variety of practices and devices, from large-scale retention ponds and constructed wetlands, to small-scale underground treatment systems, infiltration facilities, filter strips, low impact design, bioretention, wet ponds, permeable paving, grassed swales, riparian or forested buffers, sand filters, detention basins, and manufactured devices. Structural stormwater BMPs are permanent appurtenances to the project site.
(f) **BMP Manual** - Pennsylvania Stormwater Best Management Practices Manual, as amended and updated.

(g) **Cistern** - An underground reservoir or tank for storing rainwater.

(h) **City Council** - the Council of the City of York

(i) **Clean Water Act** - The Federal Water Pollution Control Act, 33 U.S.C. §1251 et seq., and any subsequent amendments thereto.

(j) **Conservation District** - The York County Conservation District, which District is as defined in Section 3(c) of the Conservation District Law (3 P. S. § 851(c)) that has the authority under a delegation agreement executed with DEP to administer and enforce all or a portion of the regulations promulgated under 25 Pa. Code 102.

(k) **Construction Activity** - activities subject to NPDES construction permits. NPDES Storm Water Phase II permits will be required for construction projects resulting in land disturbance of one acre or more. Such activities include but are not limited to clearing and grubbing, grading, excavating and demolition.

(l) **County** - York County Pennsylvania

(m) **Culvert** - A structure which carries surface water through an obstruction.

(n) **Dam** - An impoundment structure regulated by the Pennsylvania DEP Chapter 105. regulations.

(o) **Dedicated** - Offered for adoption by the municipality.

(p) **DEP** - The Pennsylvania Department of Environmental Protection.

(q) **Design Storm** - The magnitude and temporal distribution of precipitation from a storm event measured in probability of occurrence, e.g., a 5-year storm, and duration, e.g., 24 hours, used in the design and evaluation of stormwater management systems. Also see Return Period.

(r) **Developer** - Any person, partnership, association, corporation or other entity, or any responsible person therein or agent thereof, that undertakes any Regulated Activity.

(s) **Detention Basin** - A structure designed to retard stormwater runoff by temporarily storing and releasing the runoff at a predetermined rate.

(t) **Detention District** - Those subareas in which some type of detention is required to meet the plan requirements and the goals of appropriate and approved Act 167 plans.

(u) **Detention Volume** - The volume of runoff that is captured and released into the waters of this Commonwealth at a controlled rate.

(v) **Development Site (Site)** - See Project Site.

(w) **Disconnected Impervious Area** (**DIA**) - An impervious or impermeable surface that is disconnected from any stormwater drainage or conveyance system and is redirected or directed to a pervious area, which allows for infiltration, filtration, and increased time of concentration as specified in Appendix B. Disconnected Impervious Area of this Ordinance.

(x) **Disturbed Area** - An unstabilized land area where an earth disturbance activity is occurring or has occurred.

(y) **Down-slope Property Line** - That portion of a property line of a lot or parcel of land being developed located such that overland or pipe flow from the development site would be directed toward it.

(z) **Drainage Conveyance Facility** - A stormwater management facility designed to transmit stormwater runoff, including but not limited to, streams, channels, swales, pipes, conduits, culverts and storm sewers.

(aa) **Drainage Easement** - A limited right of use granted in private land, allowing the use of private land for stormwater management purposes, wherein no structure may be constructed.

(ab) **Drainage Permit** - A permit issued by the municipality after the SWM Site Plan has been approved. Said permit is issued prior to or with the final Municipal approval.

(ac) **Earth Disturbance Activity** - A construction or other human activity which disturbs the surface of the land, including, but not limited to: clearing and grubbing; grading; excavations; embankments; road maintenance; building construction; and the moving, depositing, stockpiling, or storing of soil, rock, or earth materials.

(ad) **Erosion** - The natural process by which the surface of the land is worn away by water, wind, or chemical action.

(ae) **E & S Manual** - Erosion and Sediment Pollution Control Manual, as amended and updated.

(af) **Erosion and Sediment Control Plan** - A site specific plan consisting of both drawings and a narrative that identifies BMPs to minimize accelerated erosion and sedimentation before, during and after earth disturbance activity.

(ag) **Existing Condition** - The dominant land cover during the 5-year period immediately preceding a proposed regulated activity.

(ah) **FEMA** - Federal Emergency Management Agency.

(ai) **Flood** - A general but temporary condition of partial or complete inundation of normally dry land areas from the overflow of streams, rivers, and other waters of the Commonwealth.

(aj) **Floodplain** - Any land area susceptible to inundation by water from any natural source as delineated by applicable FEMA maps and studies as being a special flood hazard area.

(ak) **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.

(al) **Forest Management/Timber Operations** - Planning and activities necessary for the management of forest land. These include conducting a timber inventory, preparation of forest management plans, silvicultural treatment, cutting budgets, logging road design and construction, timber harvesting, site preparation, and reforestation.

(am) **Groundwater Recharge** - Replenishment of existing natural underground water supplies.

(an) **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.

(ao) **Hydrologic Soil Group (HSG)** - Infiltration rates of soils vary widely and are affected by subsurface permeability as well as surface intake rates. Soils are classified into four HSGs (A, B, C, and D) according to their minimum infiltration rate, which is obtained for bare soil after prolonged wetting. The NRCS defines the four groups and provides a list of most of the soils in the United States and their group classification. The soils in the area of the development site may be identified from a soil survey report that can be obtained from local NRCS offices or conservation district offices. Soils become less pervious as the HSG varies from A to D (NRCS 3,4).

(ap) **IWRP** - The York County Integrated Water Resources Plan, which Plan includes Act 167 Plan elements and requirements.

(aq) **Illicit Connections** - An illicit connection is defined as either of the following:

- (1) Any drain or conveyance, whether on the surface or subsurface, which allows an illegal discharge to enter the storm drain system and/or Waters of the Commonwealth including but not limited to any conveyances which allow any non-stormwater discharge including sewage, process wastewater, and wash water to enter the storm drain system and any connections to the storm drain system and/or Waters of the Commonwealth from indoor drains and sinks, regardless of whether said drain or connections had been previously allowed, permitted, or approved by an authorized enforcement agency; or
- (2) Any drain or conveyance connected from a commercial or industrial land use to the storm drain system and/or Waters of the Commonwealth which has not been documented in plans, maps, or equivalent records and approved by an authorized enforcement agency.

(ar) **Illegal Discharge** - Any direct or indirect non-storm water discharge to the storm drain system.

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(as) **Impervious Surface (Impervious Area)** - A surface that prevents the infiltration of water into the ground. Impervious surfaces and areas shall include, but not be limited to, roofs, additional indoor living spaces, patios, garages, storage sheds and similar structures, and any new streets and sidewalks. However, any surface or area designed, constructed and maintained to permit infiltration as specified herein shall be considered pervious, not impervious. For the purposes of this Ordinance, a surface or area shall not be considered impervious if such surface or area does not diminish the capacity for infiltration of stormwater for storms up to, and including, a two (2)-year 24-hour storm event.

(at) **Industrial Activity** - Activities subject to NPDES industrial permits as defined in 40 CFR §122.26(b)(14).

(au) Infiltration - The entrance of surface water into the soil, usually at the soil-air interface.

(av) **Infiltration Structures** - A structure designed to direct runoff into the ground (e.g. french drains, seepage pits, seepage trench).

(aw) **Karst** - A type of topography or landscape characterized by surface depressions, sinkholes, rock pinnacles/uneven bedrock surface, underground drainage, and caves. Karst landscapes are formed on carbonate rocks, such as limestone or dolomite.

- (ax) Land Development Shall include any of the following activities:
 - (1) The improvement of one lot or two or more contiguous lots, tracts, or parcels of land for any purpose involving:

A. 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

B. The division or allocation of land or space between or among two (2) or more existing or prospective occupants by means of, or for the purpose of streets, common areas, leaseholds, condominiums, building groups, or other features.

- (2) A subdivision of land.
- (3) Development in accordance with Section 503(1.1) of the Pennsylvania Municipalities Planning Code.

(ay) **Land Disturbance** - Any activity involving grading, filling, digging or filling of ground, or stripping of vegetation, or any other activity which causes land to be exposed to the danger of erosion.

- (az) **Municipality** City of York, York County, Pennsylvania.
- (ba) **MS4** Municipal Separate Storm Sewer System
- (bb) **NPDES** National Pollution Discharge Elimination System
- (bc) **NRCS** USDA Natural Resources Conservation Service (previously SCS).

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(bd) **National Pollutant Discharge Elimination System (NPDES) Storm Water Discharge Permit** means a permit issued by EPA (or by DEP under authority delegated pursuant to 33 USC § 1342(b)) that authorizes the discharge of pollutants to waters of the United States, whether the permit is applicable on an individual, group, or general area-wide basis.

(be) **Non-Stormwater Discharge** - Any discharge to the storm drain system and/or Waters of the Commonwealth that is not composed entirely of stormwater.

- (bf) **O & M** Operation and Maintenance
- (bg) **O & M Plan** Operation and Maintenance Plan
- (bh) **PCSWMP** Post-Construction Stormwater Management Plan
- (bi) **Peak Discharge** The maximum rate of stormwater runoff from a specific storm event.

(bj) **Percolation** - The downward movement, under the influence of gravity, of water under hydrostatic pressure through interstices of the soil or rock.

(bk) **Person** - An individual, partnership, public or private association or corporation, firm, trust, estate, municipality, governmental unit, public utility or any other legal entity whatsoever. Whenever used in any section prescribing or imposing a penalty, the term "person" shall include the members of a partnership, the officers, agents and servants of a corporation and the officers of a municipality.

(bl) **Pervious Area** - Any area not defined as impervious.

(bm) **Pollutant** - Anything which causes or contributes to pollution. Pollutants may include, but are not limited to: paints, varnishes, and solvents; oil and other automotive fluids; non-hazardous liquid and solid wastes and yard wastes; refuse, rubbish, garbage, litter, or other discarded or abandoned objects, ordnance, and accumulations, so that may cause or contribute to pollution; floatables; pesticides, herbicides, and fertilizers; hazardous substances and wastes; sewage, fecal coliform and pathogens; dissolved and particulate metals; animal wastes; wastes and residues that result from constructing a building or structure; and noxious or offensive matter of any kind.

(bn) **Premises** - Any building, lot, parcel of land, or portion of land, whether improved or unimproved, including adjacent sidewalk and parking strips.

(bo) **Project Site** - The specific area of land where any regulated activities in the Municipality are planned, conducted, or maintained.

(bp) **Provisional No Detention District** - A release rate district which does not require reduction of post development peak flow rates; provided, however, that adequate downstream conveyance capacity exists to convey such increased peak flow rates without adversely affecting any downstream properties.

(bq) **Qualified Person** - Any person licensed by the State of Pennsylvania or otherwise qualified by law to perform the work required by this Ordinance.

(br) **Regulated Activities** - Any earth disturbance activities or any activities that involve the alteration or development of land in a manner that may affect stormwater runoff.

(bs) **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.

(bt) **Retention Basin** - An impoundment in which stormwater is stored and not released during a storm event. Stored water may be released from the basin at some time after the end of a storm.

(bu) **Retention Volume/Removed Runoff** - The volume of runoff that is captured and not released directly into the surface waters of this Commonwealth during or after a storm event.

(bv) **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.

(bw) **Riparian Buffer** - A Best Management Practice that is an area of permanent vegetation along surface waters. (Such areas serve as natural vegetative filters between upland landscapes and waterways.)

(bx) **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 pound or impoundment for a specified design storm.

(by) **Rooftop Detention** - Temporary ponding and gradual release of stormwater falling directly onto roof surface by incorporating control-flow roof drains into building design.

(bz) **Runoff** - Any part of precipitation that flows over the land.

(ca) **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.

(cb) SCS - Soil Conservation Services, U.S. Department of Agriculture

(cc) Sediment - Soils or other materials transported by surface water as a product of erosion.

(cd) **Sediment Basin** - A barrier, dam, retention or detention basin designed to retain sediment.

(ce) **Seepage Pit/Seepage Trench** - An area of excavated earth filled with loose stone or similar materials into which surface water is directed for infiltration into the ground.

(cf) **Semi-Pervious Surface** - A surface which permits a limited amount of vertical transmission of water.

(cf-1) **Sheet Flow** - Water flow with a relatively thin and uniform depth.

(cg) **Soil-Cover Complex Method** - A method of runoff computation in NRCS publication "Urban Hydrology for Small Watersheds", Technical Release No. 55.

(ch) **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.

(ci) **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.

(cj) **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.

(ck) **Storm Frequency** - The number of times that a given storm event occurs on average in a stated period of years.

(cl) **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.

(cm) **Stormwater** - Drainage runoff from the surface of the land resulting from precipitation or snow or ice melt.

(cn) **Stormwater Management District Watershed Maps**- Appendix C - Defining release rate criteria within the watershed.

(co) **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.

(cp) **Stormwater Management Plan** - Parts and/or elements of the York County Integrated Water Resources Plan which incorporate the requirements of the Act of October 4, 1978, P.L. 864, (Act 167), as amended, and known as the "Storm Water Management Act."

(cq) **Stormwater Management Best Management Practices** - Is abbreviated as BMPs or SWM BMPs throughout this Ordinance.

(cr) **Stormwater Management Site Plan** - The plan prepared by the developer or his representative indicating how stormwater runoff will be managed at the development site in accordance with this Ordinance. Stormwater Management Site Plan will be designated as SWM Site Plan throughout this Ordinance. For all NPDES permitted sites, the Stormwater Management Site Plan shall include, and be consistent with, the Erosion and Sediment Control Plan as submitted to the York County Conservation District (YCCD) and/or DEP.

(cs) **Stormwater Pollution Prevention Plan** - A document which describes the best management practices and activities to be implemented by a person or business to identify sources of pollution or contamination at a site and the actions to eliminate or reduce pollutant discharges to stormwater, stormwater conveyance systems, and/or receiving waters to the maximum extent practicable.

(ct) **Stream Enclosure** - A bridge, culvert or other structure in excess of 100 feet in length upstream to downstream which encloses a regulated water of this Commonwealth.

(cu) **Subarea** - The smallest drainage unit of a watershed for which stormwater management criteria have been established in the Storwmater Management Plan.

(cv) **Subdivision** - The division or re-division of a lot, tract or parcel of land by any means into two or more lots, tracts or parcels or other divisions of land including changes in existing lot lines for the purpose, whether immediate or future, of lease, partition by the court for distribution to heirs or devisees, transfer of ownership or building or lot development; provided, however, that the subdivision by lease of land for agricultural purposes into parcels of more than ten acres, not involving any new street or easement of access or any residential dwelling, shall be exempted.

(cw) **SWM** - Stormwater Management.

(cx) Swale - A low-lying stretch of land which gathers and/or carries surface water runoff.

(cy) **Time of Concentration (Tc)** - The time for surface runoff to travel from the hydraulically most distant point of the watershed to a point of interest within the watershed. This time is the combined total of overland flow time and flow time in pipes or channels, if any.

(cz) USDA - United States Department of Agriculture.

(da) **Waters of this Commonwealth** - Any and all rivers, streams, creeks, rivulets, impoundments, ditches, watercourses, storm sewers, lakes, dammed water, wetlands, ponds, springs, and all other bodies or channels of conveyance of surface and underground water, or parts thereof, whether natural or artificial, within or on the boundaries of this Commonwealth.

(db) **Watercourse** - a stream of water; river, brook, creek, or a channel or ditch for water, whether natural or man-made.

(dc) **Watershed** - Region or area drained by a river, watercourse, or other surface water of this Commonwealth.

(dd) **Wastewater** - Any water or other liquid, other than uncontaminated stormwater, discharged from a facility.

(de) **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.

(df) **YCCD** - York County Conservation District (Ord. 32-2011. Passed 10-4-11.)

ARTICLE 937 Stormwater Management Standards

- 937.01 General requirements.
- 937.02 Exemptions.
- 937.03 Stormwater Management Districts.
- 937.04 Volume controls.
- 937.05 Rate controls.
- 937.06 Stormwater Management Facilities for Pennsylvania Department of Transportation and Pennsylvania Turnpike Commission Roadways and Associated Facilities.
- 937.07 Design criteria.
- 937.08 Regulations governing Stormwater Management Facilities.
- 937.09 Calculation methodology.
- 937.10 Carbonate geology.
- 937.11 Erosion and sedimentation control requirements.

937.01 GENERAL REQUIREMENTS.

(a) For all regulated activities, unless preparation of an SWM Site Plan is specifically exempted in Section 937.02:

- (1) Preparation and implementation of an approved SWM Site Plan is required.
- (2) No regulated activities shall commence until the Municipality issues written approval of an SWM Site Plan which demonstrates compliance with the requirements of this Ordinance.

(b) SWM Site Plans approved by the Municipality, in accordance with Section 938.06, shall be on site throughout the duration of the regulated activity.

(c) The Municipality may, after consultation with DEP, approve measures for meeting the state water quality requirements other than those in this Ordinance, provided that they meet the minimum requirements of, and do not conflict with, State law including, but not limited to, the Clean Streams Law. The Municipality shall maintain a record of consultations with DEP pursuant to this paragraph.

(d) For all regulated earth disturbance activities, erosion and sediment control BMPs shall be designed, implemented, operated, and maintained during the regulated earth disturbance activities, i.e., during construction, to meet the purposes and requirements of this Ordinance and to meet all requirements under Title 25 of the Pennsylvania Code and the Clean Streams Law. Various BMPs and their design standards are listed in the Erosion and Sediment Pollution Control Program Manual (E&S Manual) 2, No. 363-2134-008 (April 15, 2000), as amended and updated.

(e) For all regulated activities, implementation of the volume controls in Section 937.03. is required, unless specifically exempted under Section 937.01(c), or exempted by an approved modification request as specified in Section 938.03(b).

- (f) <u>Impervious Areas:</u>
 - (1) The measurement of impervious areas shall include all of the impervious areas in the total proposed development even if development is to take place in phases.
 - (2) For development taking place in phases, the entire development plan must be used in determining conformance with this Ordinance.
 - (3) For projects that add impervious area to a parcel, the total impervious area on the parcel is subject to the requirements of this Ordinance; except that the volume controls in Section 937.03 and the peak rate controls of Section 937.04 do not need to be retrofitted to existing impervious areas that are not being altered by the proposed regulated activity.

(g) Stormwater flows onto adjacent property shall not be created, increased, decreased, relocated, or otherwise altered without written notification of the adjacent property owner(s). Such stormwater flows shall be subject to the requirements of this Ordinance.

- (h) All regulated activities shall include such measures as necessary to:
 - (1) Protect health, safety, and property;
 - (2) Meet the water quality goals of this Ordinance, as stated in Section 935.03. Purpose, by implementing measures to:
 - A. Minimize disturbance to floodplains, wetlands, wooded areas, and existing vegetation.
 - B. Maintain or extend riparian buffers.
 - C. Avoid erosive flow conditions in natural flow pathways.
 - D. Minimize thermal impacts to waters of this Commonwealth.
 - E. Disconnect impervious surfaces by directing runoff to pervious areas, wherever possible.
 - F. Minimize soil disturbance and compaction. Topsoil, if removed, shall be replaced to a minimum depth equal to its depth prior to removal or four (4) inches, whichever is greater. (Additional topsoil may be needed for vegetation other than sod.)
 - (3) To the maximum extent practicable, incorporate the techniques for Low Impact Development Practices described in the Pennsylvania Stormwater Best Management Practices Manual (BMP Manual).

(i) The design of all facilities in areas of carbonate geology or karst topography shall include an evaluation of measures to minimize adverse effects, including hydro-geologic studies if required by the Municipality.

(j) Infiltration BMPs shall be spread out, made as shallow as practicable, and located to maximize use of natural on-site infiltration features while still meeting the other requirements of this Ordinance. In addition, infiltration BMPs shall include pre-treatment BMPs where appropriate.

(k) All natural streams, channels, swales, drainage systems and/or areas of surface water concentration shall be maintained in their existing condition unless an alteration is approved by the Municipality. All encroachment activities shall comply with the requirements of PA DEP 25 PA Code Chapter 105 (Water Obstructions and Encroachments), Rules and Regulations of PA DEP. Any approvals or permits issued do not relieve compliance as referenced in Section 935.08, Compatibility with Other Permit and Ordinance Requirements.

(1) All storage facilities shall completely drain both the volume control and rate control capacities over a period of time not less than 24 hours and not more than 72 hours from the end of the design storm. However, any designed infiltration at such facilities is exempt from the minimum 24-hour standard, i.e., may infiltrate in a shorter period of time, so long as none of the stormwater flowing into the infiltration facility is discharged directly into the surface waters of the Commonwealth. (Inordinately rapid infiltration rates may indicate the presence of large fractures or other conditions for which an additional soil buffer may be required.)

(m) All stormwater management facilities (excluding individual residential underground infiltration facilities) are considered structures and must comply with building setback requirements. The outside toe of slope of the embankment in a fill condition or the top of embankment in a cut condition shall be considered as the point that must meet the setback requirements. Individual residential underground infiltration facilities shall be a minimum of ten (10) feet from the property line. Discharge of controlled flows can be no closer to an adjacent property than two (2) times the length of the required discharge rip-rap apron. This requirement applies to discharge aprons that do not outlet to a defined waterway or an existing storm sewer. Minimum distance is ten (10) feet.

(n) The design storm volumes and precipitation intensities to be used in the analysis of discharge or runoff shall be obtained from the Precipitation-Frequency Atlas of the United States, Atlas 14, Volume 2, Version 3.0, U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA), National Weather Service, Hydrometeorological Design Studies Center, Silver Spring, Maryland. NOAA's Atlas 14 can be accessed at: http://hdsc.nws.noaa.gov/hdsc/pfds/.

(o) For all regulated activities, SWM BMPs shall be designed, implemented, operated, and maintained to meet the purposes and requirements of this Ordinance and to meet all requirements under Title 25 of the Pennsylvania Code, the Clean Streams Law, and the Storm Water Management Act.

(p) Various BMPs and their design standards are listed in the BMP Manual.

(q) All work shall be in accordance with the Municipality's Construction and Material Specifications. (Ord. 32-2011. Passed 10-4-11.)

937.02 EXEMPTIONS.

Any Regulated Activity that meets the following exemption criteria is exempt from the part(s) of this Ordinance as specified herein. However, the requirements of the Ordinance shall otherwise remain in effect. The criteria for exemption in this Section apply to the total development proposed, including instances in which the development is proposed to take place in phases. The date of enactment of this Ordinance shall be the starting point from which future development and the respective proposed impervious surface computations shall be cumulatively considered and regulated. Exemption shall not relieve an applicant from implementing such measures as necessary to meet the intent of this Ordinance, or compliance with any NPDES Permit requirements.

- (a) Regulated activities that create DIAs equal to or less than 1,000 square feet are exempt from the peak rate control and the SWM Site Plan preparation requirements of this Ordinance.
- (b) Regulated activities that create DIAs greater than 1,000 square feet and equal to or less than 5,000 square feet are exempt only from the peak rate control requirement of this Ordinance.
- (c) Agricultural activity is exempt from the rate control and SWM Site Plan preparation requirements of this Ordinance provided the activities are performed according to the requirements of 25 Pa. Code 102.
- (d) Forest management and timber operations are exempt from the rate control and SWM Site Plan preparation requirements of this Ordinance provided the activities are performed according to the requirements of 25 PA Code 102.
- (e) Domestic gardening and landscaping are exempt from specific approval and permitting under this Ordinance so long as those activities are associated with one, and only one, dwelling unit and the activities comply with all other applicable ordinances and statutes.
- (f) Exemptions from certain provisions of this Ordinance shall not relieve the applicant from the requirements in Sections 937.01(d) through (n).
- (g) The Municipality may deny or revoke any exemption pursuant to this Section at any time for any project that the Municipality determines poses a threat to public health, safety, property or the environment.
- (h) For all Regulated Activities that are exempt from the SWM Site Plan preparation, the applicant shall submit a plan and calculations in sufficient detail to show the existing conditions and proposed improvements.
 (Ord. 32-2011. Passed 10-4-11.)

937.03 STORMWATER MANAGEMENT DISTRICTS.

(a) The City of York has been divided into release rate areas as shown in Appendix C.

(b) Description of stormwater management districts - two types of stormwater management districts may be applicable to the City of York, namely the Release Rate Districts and Provisional No Detention Districts as described below:

(1) <u>Release Rate Districts</u> - Rate districts differ in the extent to which postdevelopment runoff must be controlled. Within a given district, the postdevelopment peak rate of storm runoff must be controlled to the stated percentage of the pre-development peak rate of storm runoff in order to protect downstream watershed areas.

- (2)Provisional No Detention Districts - These watershed areas may discharge postdevelopment peak runoff without detention without adversely affecting the total watershed peak flow. In certain instances, however, the "local" runoff conveyance facilities, which transport runoff from the site to the main channel, may not have adequate capacity to safely transport increased peak flows associated with no detention for a proposed development. In those instances, the developer shall either use a 100% release rate control or provide increased capacity of downstream drainage elements to convey increased peak flows consistent with Section 937.07(d). In determining if adequate capacity exists in the local watershed drainage network, the developer must assume that the entire local watershed is developed per current zoning and that all new development would use the runoff controls specified in this Ordinance. Similarly, any capacity improvements must be designed to convey runoff from development of all areas tributary to the improvements consistent with the capacity criteria specified in Section 937.07(f).
- (3) When a project or land disturbance activity is located in more than one stormwater management district, stormwater may not be transferred from a district with stricter stormwater management criteria to a district with less strict criteria, unless the need for such a transfer is identified in the regional water quality management plan Act 167 Study. In any district, infiltration and volume regulations dictated in Section 937.04 will be required.

District ID	Regulated Storm Frequency	Percentage of Pre- Developed Peak Flow Rate to Determine Allowable Post-Developed Release Rate
District 1	2	100% 2-Year
District 1	5	100% 5-Year
District 1	10	100% 10-Year
District 1	25	100% 25-Year
District 1	50	100% 50-Year
District 1	100	100% 100-Year

CODORUS - DISTRICT 1

* The intention of this Table is to reduce the runoff rate. (Ord. 32-2011. Passed 10-4-11.)

937.04 VOLUME CONTROLS.

The low impact development practices provided in the BMP Manual shall be utilized for all regulated activities to the maximum extent practicable. Water volume controls shall be implemented using the Design Storm Method in subsection (a) or the Simplified Method in subsection (b) below. For regulated activity areas equal or less than one (1) acre that do not require hydrologic routing to design the stormwater facilities, this Ordinance establishes no preference for either methodology; therefore, the applicant may select either methodology on the basis of economic considerations, the intrinsic limitations on applicability of the analytical procedures associated with each methodology, and other factors.

- (a) The Design Storm Method (CG-1 in the BMP Manual) is applicable to any size of regulated activity. This method requires detailed modeling based on site conditions.
 - Do not increase the post-development total runoff volume for all storms equal to (1)
 - or less than the two (2)-year 24-hour duration precipitation. (2)
 - For modeling purposes:

Existing (pre-development) non-forested pervious areas must be A. considered meadow.

For computation of pre-development runoff volume, twenty Β. percent (20%) of existing impervious areas, when present, shall be considered meadow.

- (b) The Simplified Method (CG-2 in the BMP Manual) provided below is independent of site conditions and should be used if the Design Storm Method is not followed. This method is not applicable to regulated activities greater than one (1) acre or for projects that require design of stormwater storage facilities. For new impervious surfaces:
 - (1)Stormwater facilities shall capture at least the first two (2) inches of runoff from all new impervious surfaces.
 - At least the first one (1) inch of runoff from new impervious surfaces shall be (2)permanently removed from the runoff flow, i.e., it shall not be released into the surface waters of this Commonwealth. Removal options for the first one (1) inch of runoff include reuse, evaporation, transpiration, and infiltration.
 - Wherever possible, infiltration facilities should be designed to accommodate (3)infiltration of the entire permanently removed runoff; however, in all cases at least the first 0.5 inch of the permanently removed stormwater runoff shall be infiltrated.
 - (4) This method is exempt from the requirements of Section 937.05. (Ord. 32-2011. Passed 10-4-11.)

937.05 RATE CONTROLS.

For computation of pre-development peak discharge rates, twenty percent (20%) of the (a) existing impervious area of a project site, when present, shall be considered meadow.

Post-development discharge rates shall not exceed the pre-development discharge rates (b) provided in Section 937.03(b)(3) 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. (Ord. 32-2011. Passed 10-4-11.)

937.07

937.06 STORMWATER MANAGEMENT FACILITIES FOR PENNSYLVANIA DEPARTMENT OF TRANSPORTATION AND PENNSYLVANIA TURNPIKE COMMISSION ROADWAYS AND ASSOCIATED FACILITIES.

(a) For the purposes of the Act 167 Stormwater Management (Plan) elements, contained within the York County Integrated Water Resources Plan, and this Ordinance, design policy pertaining to stormwater management facilities for Pennsylvania Department of Transportation (PennDOT) and Pennsylvania Turnpike Commission (PTC) roadways and associated facilities is provided in Section 13.7 (Antidegradation and Post Construction Stormwater Management Policy) of PennDOT Publication No. 13M, Design Manual Part 2 (August 2009), as developed, updated, and amended in consultation with the Pennsylvania Department of Environmental Resources (DEP). As stated in DM-2.13.7.D (Act 167 and Municipal Ordinances), PennDOT and PTC roadways and associated facilities shall be consistent with Act 167 Plans. Dm-2.13.7.B (Policy on Antidegradation and Post Construction Stormwater Management) was developed as a cooperative effort between PennDOT and DEP. DM-2.13.7.C (Project Categories) discusses the anticipated impact on the quality, volume, and rate of stormwater runoff.

(b) Where standards in the Act 167 elements of the IWRP and this Ordinance are impractical, PennDOT or the PTC may request assistance from DEP, in consultation with the Municipality and County, to develop an alternative strategy for meeting State water quality requirements and the goals and objectives of the Act 167 elements within the IWRP.

(c) For the purposes of the Act 167 elements in the IWRP and this Ordinance, road maintenance activities are regulated under 25 PA Code Chapter 102. (Ord. 32-2011. Passed 10-4-11.)

937.07 DESIGN CRITERIA.

(a) Sites located in more than One District - for a proposed development site located within two or more stormwater management district category subareas, the peak discharge rate from any subarea shall meet the discharge requirements for that subarea as indicated in Section 937.03. The calculated peak discharges shall apply regardless of whether the grading plan changes the drainage area by subarea.

(b) <u>Off-Site Areas</u> - Off-site areas which drain through a proposed development site are not subject to release rate criteria when determining allowable peak runoff rates. However, on-site drainage facilities shall be designed to safely convey off-site flows through the development site.

(c) <u>On-Site Areas</u> - On- Site Areas proposed to remain undisturbed as part of the Regulated Activity, including previously developed areas, that are not within the drainage area of any proposed BMPs shall be considered as existing conditions, without considering any reductions in cover type.

(d) <u>"Downstream Hydraulic Capacity Analysis"</u> - Any existing downstream hydraulic capacity analysis shall be conducted in accordance with this Ordinance.

937.07 STREETS, UTILITIES AND PUBLIC SERVICES CODE

- (1) All downstream facilities impacted by the total site area of the Regulated Activity shall be studied to determine if the facility has adequate capacity to handle existing and proposed flows. An impacted downstream facility is one to which the runoff from the total site area of the Regulated Activity comprises more than 50% of the total flow to such a facility. The study shall end at a perennial stream. Downstream facilities include, but are not limited to, manmade or natural swales and open channels, pipes, inlets, culverts, bridges and roadways.
- (2) If any private facility is found to be undersized, the applicant shall be responsible for updating the facility in coordination with the Regulated Activity.
- (3) If any public facility is found to be undersized or inadequate, the applicant shall work with the Municipality on upgrading the facility in coordination with the Regulated Activity.

(e) <u>Regional Detention Alternatives</u> - For certain areas within the study area, it may be more cost-effective to provide one control facility for more than one development site than to provide an individual control facility for each development site. The initiative and funding for any regional runoff control alternatives are the responsibility of prospective developers. The design of any regional control basins must incorporate reasonable development of the entire upstream watershed. The peak outflow of a regional basin would be determined on a case-by-case basis using the hydrologic model of the watershed consistent with protection of the downstream watershed areas. "Hydrologic model" refers to the calibrated model as developed for the Stormwater Management Plan.

(f) <u>Capacity Improvements of Local Drainage Networks</u> - In certain instances, primarily within the provisional no detention areas, local drainage conditions may dictate more stringent levels of runoff control than those based upon protection of the entire watershed. In these instances, if the developer could prove that it would be feasible to provide capacity improvements to relieve the capacity deficiency in the local drainage network, then the capacity improvements could be provided by the developer in lieu of runoff controls on the development site. Any capacity improvements would be designed based upon development of all areas tributary to the proposed improvement and the capacity criteria specified in Section 937.08. 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.

(g) Capacity improvements may also be provided as necessary to implement any regional or subregional detention alternatives.

(h) Where the potential for groundwater and/or surface water contamination exists, based on the proposed use of the Regulated Activity, safeguards shall be incorporated into the site.

- (1) For industrial or commercial sites where it is possible that toxic or hazardous substances may come into contact with stormwater runoff, pretreatment of the first-flush (first 1/2 inch) runoff over areas where industrial and commercial operations take place shall be provided. Pretreatment shall include means for separating light and heavy toxic and hazardous substances from the stormwater before the stormwater is conveyed to the general stormwater management facility(ies).
- (2) Infiltration systems may be used to handle runoff from commercial or industrial working or parking areas only after the first-flush stormwater from these areas has been pretreated for removal of toxic and hazardous substances.

(i) Roof drains and sump pumps shall discharge to infiltration or vegetative BMPs and to the maximum extent practicable satisfy the criteria for DIAs. (Ord. 32-2011. Passed 10-4-11.)

937.08 REGULATIONS GOVERNING STORMWATER MANAGEMENT FACILITIES.

(a) Any stormwater facility located on State highway rights-of-way shall be subject to approval by the Pennsylvania Department of Transportation (PennDOT).

(b) Any stormwater management facilities regulated by this Ordinance that would be located in or adjacent to waters of the Commonwealth or wetlands shall be subject to approval by PA DEP through the Joint Permit Application process, or, where deemed appropriate by PA DEP, the General Permit process. When there is a question whether wetlands may be involved, it is the responsibility of the Developer or his agent to show that the land in question cannot be classified as wetlands, otherwise approval to work in the area must be obtained from PA DEP.

(c) Any stormwater management facility located within the vicinity of a Floodplain shall be subject to approval in accordance with PA DEP 25 PA Code Chapter 105 (Floodplain Management) of PA DEP's Rules and Regulations.

(d) All earthmoving activities must be reviewed and approved by the York County Conservation District prior to commencing work.

(e) The design of all stormwater management facilities shall incorporate good engineering principles and practices. The Municipality 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 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 must document that adequate downstream conveyance facilities exist to safely transport the concentrated discharge, or otherwise prove that no erosion, sedimentation, flooding or other harm will result from the concentrated discharge.

(h) Where a development site is traversed by watercourses, drainage easements shall be provided conforming to the line of such watercourses. The terms of the easement shall prohibit excavation, the placing of fill or structures, and any alterations that may adversely affect the flow of stormwater within any portion of the easement. Also, maintaining of vegetation in a natural state within the easement shall be required, except as approved by the appropriate governing authority.

(i) When it can be shown that, due to topographic conditions, natural drainageways on the site cannot adequately provide for drainage, open channels may be constructed conforming substantially to the line and grade of such natural drainageways. Work within natural drainageways shall be subject to approval by PA DEP through the Joint Permit Application process, or, where deemed appropriate by PA DEP, through the General Permit process.

(j) Roof drains must not be connected to streets, sanitary or storm sewers or roadside ditches to promote overland flow and infiltration/percolation of stormwater where advantageous to do so. When it is more advantageous to connect directly to streets or storm sewers, then it shall be permitted on a case by case basis by the Municipality.

(k) Special requirements for areas falling within defined Exceptional Value and High Quality Subwatersheds: The temperature and quality of water and streams that have been declared as exceptional value and high quality is to be maintained as defined in Chapter 93, Water Quality Standards, Title 25 of Pennsylvania Department of Environmental Protection Rules and Regulations. Temperature sensitive 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 Subwatersheds.

(1) No watersheds within the Municipality are listed as Exceptional Value and/or High Quality Watersheds.

(Ord. 32-2011. Passed 10-4-11.)

937.09 CALCULATION METHODOLOGY.

(a) Stormwater runoff from all development sites shall be calculated using the Rational Method, Modified Rational Method, or a Soil Cover Complex methodology.

- (1) Any stormwater runoff calculations involving drainage areas greater than 200 acres, including on- and off-site areas, shall use generally accepted calculation technique that is based on the NRCS Soil Cover Complex method. It is assumed that all methods will be selected by the design professional based on the individual limitations and suitability of each method for a particular site.
- (2) The Municipality may allow the use of the Rational Method or Modified Rational Method to estimate peak discharges from drainage areas that contain less than 200 acres.

- (3) All calculations consistent with this Ordinance using the Soil Cover Complex method shall us the appropriate design rainfall depths. If a hydrologic computer model such as PSRM or HEC-RAS is used for stormwater runoff calculations, then the duration of rainfall shall be 24 hours. The SCS Rainfall Type II curve shall be used for the rainfall distribution.
- (4) For the purposes of pre-development flow rate determination, undeveloped land, including areas to be disturbed as part of the Regulated Activity, shall be considered as "meadow" in good condition, unless the natural ground cover generates a lower curve number or Rational "C" value (i.e., forest), as listed in Tables 1 and 2, respectively.
- (5) All calculations using the Rational Method shall use rainfall intensities consistent with appropriate times-of-concentration for overland flow and return periods. Times-of-concentration for overland flow shall be calculated using the methodology presented in Chapter 3 of Urban Hydrology for Small Watersheds, NRCS, TR-55 (as amended or replaced from time to time by NRCS). Time-ofconcentration for channel and pipe flow shall be computed using Manning's equation.
- (6) Runoff Curve Numbers (CN) for both existing and proposed conditions to be used in the Soil Cover Complex method shall be obtained from Table 1.
- (7) Runoff coefficients (c) for both existing and proposed conditions for use in the Rational Method shall be obtained from Table 2.
- (8) Where uniform flow is anticipated, the Manning equation shall be used for hydraulic computations such as the capacity of open channels, pipes, and storm sewers. Values for Manning's roughness coefficient (n) shall be consistent with Table 3.
- (9) The design of any stormwater detention facilities intended to meet the performance standards of this Ordinance shall be verified by routing the design storm hydrograph through these facilities, using either manual methods or computerized routing. Routing shall be based upon the modified PULS method; other routing methodologies shall be subject to the approval of the Municipal Engineer.
- (10) The stormwater collection system shall be designed using the peak discharge computed using the Rational Formula.

(b) <u>Design Standards - Water Carrying Facilities.</u>

(1) All storm sewer pipes, streets, and inlets (excluding detention and retention basin outfall structures) shall be designed for a 10-year storm event. Sole access structures (culverts and bridges) shall be designed to convey the 25-year flood without overtopping the roadway.

A. When a pipe or culvert is intended to convey the discharge from a stormwater management facility, its required capacity shall be computed by the rational method and compared to the peak outflow from the stormwater facility for the 100-Year storm. The greater flow shall govern the design of the pipe or culvert.

B. When a pipe is part of a storm sewer system and crosses the roadway, it shall be designed as a storm sewer with the same design storm as the remainder of the drainage system.

C. Greater design frequencies may be justified on individual projects.

D. A 100-year storm frequency may be required for design of the stormwater collection system to insure that the resultant stormwater runoff from the post-development storm is directed into the management facility.

- (2) In general, inlets shall be spaced such that, based upon the Rational Method, tc = 5 min. and 10-year rainfall intensity, the area contributing to the inlet shall not produce a peak runoff of greater than 4 cfs. Also, inlets shall be spaced so that their efficiency, based upon efficiency curves published by the Pennsylvania Department of Transportation, is not less than 65%.
- (3) Inlets shall be placed on both sides of the street at low spots and at the upper side of street intersections to prevent stormwater from crossing an intersection. Other devices such as high efficiency grates or perforated pipe may be required if conditions warrant. All inlets at low points along the roadway shall have a 10" curb reveal and shall be equipped with pavement base drain extending 50 feet in either direction, parallel to the centerline of the roadway.
- (4) In all cases where drainage is picked up by means of a headwall, the pipe shall be designed as a culvert. Inlet and outlet conditions shall be analyzed. The minimum diameter of culvert shall be 18 inches. The procedure contained in Hydraulic Engineer Circulars No. 5 and No. 13, as prepared by the U. S. Department of Transportation, Federal Highway Administration, Washington, D.C., shall be used for the design of culverts. All culverts shall include concrete headwalls and endwalls.
- (5) Guards shall be provided on all intake and outfall structures as well as outlet structures. The guard bars shall be one-half inch (½") diameter galvanized bars on six inch (6") centers attached to the structure with three-eighth inch (3/8") diameter stainless steel anchors. Guards shall also be provided for any pipe opening, 18" in diameter or larger.
- (6) Manholes, inlets, headwalls, and endwalls shall conform to the requirements of the PennDOT Publication 408, as modified by the adopted Municipal Standards.
- (7) Proposed channels or swales must be able to convey the increased runoff associated with a proposed 100-year return period event within their banks at velocities consistent with protection of the channels from erosion. Acceptable velocities shall be based upon criteria included in the PA DEP Erosion and Sediment Pollution Control Program Manual.
- (8) Existing natural or man-made channels or swales must be able to convey proposed 100-year return period runoff without creating any hazard to persons or property.
- (9) Stormwater runoff on roadways (i.e. gutter spread, lane encroachment, etc.) shall be controlled in accordance with PennDOT Publications 13M, "Design Manual, Part 2" and 584, "Drainage Manual".
- (c) <u>Design Standards Detention and Retention Basins.</u>
 - (1) <u>Permanent Detention and Retention Basins shall be designed to meet the</u> <u>following standards</u>:

A. Outlet Control Structures - Outlet control shall be accomplished utilizing (6" diameter or 6" maximum) perforations arranged vertically to provide for positive control of stormwater runoff. Outlet controls shall also provide for modification off the orifice to a smaller diameter through the use of removable plates.

B. Discharge Dispersion - Discharges from piping outlets of management facilities shall be provided with a concrete "level spreader" to convert point discharge back to simulated sheet flow. The length of the level spreader shall be equal to 10 times the outlet pipe diameter (e.g., an 18" discharge pipe would require a 15" wide level spreader).

C. Minimum Bottom Slope - All detention basins shall have a minimum bottom slope of two percent (2%) unless infiltration facilities are provided.

D. The maximum permitted depth for detention or retention basins shall be 6 feet, measured from the bottom of the emergency spillway to the lowest point in the basin.

E. The minimum top width of all basin embankments shall be 8 feet. F. 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.

Any stormwater management facility (i.e., detention basin) G. 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 PA DEP 25 PA Code Chapter 105, the facility shall be designed in accordance with PA DEP 25 PA Code Chapter 105 and meet the regulations of PA DEP 25 PA Code Chapter 105 concerning dam safety which may be required to pass storms larger than 100-year event. H. A cutoff trench of impervious material shall be provided within all basin embankments.

I. Where a basin embankment is constructed using fill on an existing 15% or greater slope, the basin must be keyed into the existing grade.J. Fencing. Any above-ground stormwater management

J. 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:

<u>50BB</u>

1. 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 Municipality.

2. 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.

K. 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.

L. A concentrated discharge of stormwater to an adjacent property shall be within a natural drainage way or watercourse, or an easement shall be required.

M. Easement - Plans showing outlet control structures shall contain an easement dedication as follows: "An easement is hereby granted to the City of York to access and modify the basin outlet control device at the expense of the Developer so as to function within design parameters."

N. Plans for infiltration must show the locations of existing and proposed septic tank infiltration areas and wells. A minimum 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 the PA DEP required 10 feet. Infiltration rates shall be based upon perk and probe tests conducted at the site of the proposed facility. (Ord. 32-2011. Passed 10-4-11.)

937.10 CARBONATE GEOLOGY.

- (a) In areas of carbonate geology, a geologist shall certify to the following:
 - (1) No stormwater management facility will be placed in, over, or immediately adjacent to the following features:
 - A. Closer than 100 feet from sinkholes
 - B. Closer than 100 feet from closed depressions

C. Closer than 100 feet from caverns, intermittent lakes, or ephemeral streams

- D. Closer than 50 feet from lineaments in carbonate areas
- E. Closer than 50 feet from fracture traces
- F. Closer than 25 feet from bedrock pinnacles (surface or subsurface)
- (2) Stormwater resulting from regulated activities shall not be discharged into sinkholes.
- (3) If the developer can prove through analysis that the project site is an area underlain by carbonate geology, and such geologic conditions may result in sinkhole formations, then the project site is exempt from recharge requirements as described in Section 937.04, Volume Control. However, the project site shall still be required to meet all other standards found in this Ordinance.

(4) It shall be the developer's responsibility to verify if the project site is underlain by carbonate geology. The following note shall be attached to all stormwater management plans and signed and sealed by the developer's geologist: "I, ______, certify that the proposed stormwater management facility

(circle one) is / is not underlain by carbonate geology."

- (5) Whenever a stormwater management facility will be located in an area underlain by carbonate geology, a geological evaluation of the proposed location by a geologist shall be conducted to determine susceptibility to sinkhole formation. The evaluation may include the use of impermeable liners to reduce or eliminate the separation distances listed in the BMP Manual. Additionally, the evaluation shall at a minimum, address soil permeability, depth to bedrock, seasonally high groundwater table, susceptibility for sinkhole formation, suitability of stormwater management facilities, subgrade stability and maximum infiltration capacity in depth of water per unit area.
- (6) A detailed soils evaluation of the project site shall be performed to determine the suitability of recharge facilities. The evaluation shall be performed by a qualified professional, and at a minimum, address soil permeability, depth to bedrock, susceptibility to sinkhole formation, and subgrade stability. The general process for designing the infiltration BMP shall be:

Â. Site evaluation to determine general areas of suitability for infiltration practices.

B. Provide field test throughout the area proposed for development to determine appropriate percolation rate and/or hydraulic conductivity. At least one (1) infiltration test must be included in each soil group and at least one (1) infiltration test must be conducted for each five (5) lots proposed for development. Infiltration tests must be taken at the location and depth of all proposed infiltration structures.

C. Design infiltration structure for required storm volume based on all available data.

(7)Extreme caution shall be exercised where infiltration is proposed in geologically susceptible areas such as strip mine or limestone areas. It is also extremely important that the design professional evaluate the possibility of groundwater contamination from the proposed infiltration/recharge facility and recommend a hydrogeologic justification study be performed if necessary. Whenever a basin will be located in an area underlain by limestone, a geological evaluation of the proposed location shall be conducted to determine susceptibility to sinkhole formations. The design of all facilities over carbonate formations shall include measures to prevent ground water contamination and, where necessary, sinkhole formation. The infiltration requirement in the High Quality/Exceptional Waters shall be subject to the Department's Chapter 93 and Anti-degradation Regulations. A detailed hydrogeologic investigation may be required by the Municipality and where appropriate, the Municipality may require the installation of an impermeable liner in detention basins. (Ord. 32-2011. Passed 10-4-11.)

937.11 STREETS, UTILITIES AND PUBLIC SERVICES CODE

937.11 EROSION AND SEDIMENTATION CONTROL REQUIREMENTS.

(a) As required in Section 937.01(d), whenever the vegetation and topography are to be disturbed, such activity must be in conformance with PA DEP 25 PA Code Chapter 105, Rules and Regulations, Part I, Subpart C, protection of natural Resources, Article II, Water Resources, Chapter 102, "Erosion Control", and in accordance with the York County Conservation District.

(b) It is extremely important that strict erosion and sedimentation control measures be applied surrounding infiltration structures during installation to prevent the infiltrative surfaces from becoming clogged. Additional erosion and sedimentation control design standards and criteria must be applied where infiltration BMPs are proposed shall include the following:

- (1) Areas proposed for infiltration BMPs shall be protected from sedimentation and compaction during the construction phase, so as to maintain their maximum infiltration capacity.
- (c) Fencing for sedimentation basins or traps must comply with Section 937.09(c)(1).J.

(d) The developer shall demonstrate that the post-development hydrograph flows during erosion and sedimentation control phase are less than or equal to the pre-development hydrograph flows to assure the rate and volume of runoff leaving the site is controlled for the 2-, 5-, and 10-year frequency storms. All calculation methodology shall be in accordance with Sections 937.03 through Section 937.10.

(Ord. 32-2011. Passed 10-4-11.)

ARTICLE 938 Stormwater Management (SWM) Site Plan Requirements

Plan requirements. 938.01 938.06 Authorization to construct 938.02 Plan submission. and term of validity. 938.03 Plan review and approval 938.07 As-built plans, completion procedure. certificate, and final 938.04 Revision of plans. inspection. 938.05 Re-submission of disapproved SWM site plans.

938.01 PLAN REQUIREMENTS.

Although not a requirement of this Ordinance, prior to proceeding with SWM Site Plan preparation and submission, the applicant is encouraged to request a pre-application meeting with the Municipality, Municipality's Engineer and a staff member of the York County Conservation District to discuss the plan concept and responsibility for submission of required documents and information.

- The following items shall be included in the SWM Site Plan:
- (a) Appropriate sections of the Municipality's Subdivision and Land Development Ordinance, and other applicable ordinances of the Municipality regarding subdivision and land development plan preparation and applicable plan requirements shall be followed in preparing all SWM Site Plans, regardless of whether or not a SWM Site Plan involves a subdivision and/or land development plan. If the Municipality has not adopted a Subdivision and Land Development Ordinance, the content of SWM Site Plans shall follow the plan preparation and applicable plan requirements of the York County Subdivision and Land Development Ordinance.
- (b) The Municipality shall not approve any SWM Site Plan that is deficient in meeting the requirements of this Ordinance. At its sole discretion, and in accordance with this Article, when a SWM Site Plan is found to be deficient, the Municipality may either disapprove the submission, or, in the case of minor deficiencies, the Municipality may accept the submission of a revised SWM Site Plan as noted in Section 938.04.
- (c) Provisions for permanent access or maintenance easements for all physical SWM BMPs, such as ponds and infiltration structures, as necessary to implement the Operation and Maintenance (O&M) Plan discussed in Section 938.01(e)(9) below.
- (d) The following signature block for the municipality:

"(Municipal official or designee), on this date (date of signature), has reviewed and hereby certifies that the SWM Site Plan meets all design standards and criteria of the Municipal Ordinance No. (number assigned to the Ordinance)."

- (e) If not required by the Municipal or York County Subdivision and Land Development Ordinance, as specified in Section 938.01(a), the SWM Site Plan shall also provide the following information where applicable:
 - (1) The overall stormwater management concept for the project, including any additional information required for a Post-Construction Stormwater Management Plan (PCSWMP) as applicable.
 - (2) A determination of site conditions in accordance with the BMP Manual. A detailed site evaluation shall be completed for projects proposed in areas of carbonate geology or karst topography, as well as for other environmentally sensitive areas, whether natural or manmade, including floodplains, streams, lakes, ponds, hydric soils, wetlands, brownfields and wellhead protection zones.
 - (3) Stormwater runoff design computations, and documentation as specified in this Ordinance, or as otherwise necessary to demonstrate that the maximum practicable measures have been taken to meet the requirements of this Ordinance, including the recommendations and general requirements in Section 937.01.

- (4) Expected project time schedule.
- (5) A soil erosion and sediment control plan, where applicable, as prepared for, reviewed, and approved by the York County Conservation District.
- (6) The effect of the project in terms of runoff volumes, water quality, and peak flows on surrounding properties and aquatic features, and on any existing stormwater conveyance system that may be affected by the project.
- (7) Plan and profile drawings of all SWM BMPs, including drainage structures, pipes, open channels, and swales.
- (8) The SWM Site Plan shall show the locations of existing and proposed on-lot wastewater facilities and water supply wells.
- (9) The SWM Site Plan shall include an Operation and Maintenance (O&M) Plan for all existing and proposed physical stormwater management facilities. This plan shall address long-term ownership and responsibilities for O&M as well as schedules and costs for O&M activities.
- (10) A description of permanent stormwater management techniques, including the construction specifications of the materials to be used for stormwater management facilities.
- (11) A notarized signature of the owner of the parcel for which the SWM Site Plan is proposed indicating that they are aware of the plan and will be responsible for the operation and maintenance of the stormwater management facilities.
- (12) Existing and proposed land uses.
- (13) The location of the proposed regulated activity relative to streets, municipal boundaries, and other significant manmade features.
- (14) Significant physical features and associated boundary limits including flood hazard areas, sinkholes, existing drainage courses, and areas of natural vegetation.
- (15) The location of existing and proposed utilities, stormwater facilities, sanitary sewers, and water lines on the parcel and within 50 feet of property lines.
- (16) Proposed changes to the land surface and vegetative cover, and the type and amount of existing and proposed impervious area.
- (17) Existing and proposed structures, buildings, streets, driveways, access drives, and parking areas.
- (18) Preferred contour intervals of two (2) feet in moderately sloped areas, and contours at intervals of five (5) feet for slopes in excess of 15%. Dependent upon site conditions, alternative contour intervals proposed by an applicant or his designee may be accepted by the Municipality.
- (19) The name of the development, the name and address of the owner of the property, and the name and address of the individual or firm preparing the Plan. Also to be included are the name, address, signature and seal of any registered surveyor (attesting the accuracy of the boundary survey), professional engineer, landscape architect, or professional geologist (for geomorphological assessments) contributing to and/or with a responsibility for any aspect of the Plan where applicable.
- (20) Preferred graphic and written scale of one (1) inch equals no more than 50 feet. For parcels of 20 acres or more, the preferred scale is one (1) inch equals no more than 100 feet. Dependent upon site conditions, an alternative scale proposed by the applicant or his designee may be accepted by the Municipality.
- (21) North point (arrow).
- (22) A map showing all existing manmade features beyond the subject parcel's boundary lines that will be affected by the proposed regulated activities.
- (23) Horizontal and vertical profiles of all open channels, including hydraulic capacity.
- (24) A note on the plan indicating the location, and responsibility for maintenance of, SWM facilities and/or easements that would be located on adjoining properties as a result of proposed regulated activities, and the location of such facilities and/or easements.
- (25) A hydrogeologic assessment of the effects of stormwater runoff on sinkholes where present.

938.02 STREETS, UTILITIES AND PUBLIC SERVICES CODE

- (26) The effect of the proposed regulated activity in terms of runoff volumes and peak flows on adjacent properties and/or any existing municipal stormwater collection system that may receive runoff from the project site.
- (27) Drainage flow pathways. (Ord. 32-2011. Passed 10-4-11.)

938.02 PLAN SUBMISSION.

- (a) Three (3) copies of the SWM Site Plan shall be submitted as follows:
 - (1) Two'(2) copies to the Municipality.
 - (2) One (1) copy to the York County Planning Commission when a SWM Site Plan accompanies a subdivision/land development plan application.
- (b) Additional copies shall be submitted as requested by the Municipality or DEP.

(c) The Municipality may establish a fee schedule for the review of SWM Plans, the amount of which shall be set by resolution of the Municipality's governing body. (Ord. 32-2011. Passed 10-4-11.)

938.03 PLAN REVIEW AND APPROVAL PROCEDURE.

(a) SWM Site Plans shall be reviewed by the municipality for consistency with the provisions of this Ordinance.

- (b) <u>Modification Requests:</u>
 - (1) When reviewing a SWM Site Plan, whether or not the SWM Site Plan is included in a subdivision and/or land development plan application, the Municipality's governing body may, after consulting with DEP as noted in Section 937.01(c), grant a modification of the requirements of one or more provisions of this Ordinance if the literal enforcement will enact undue hardship because of peculiar conditions pertaining to the land in question, provided that such modification will not be contrary to the public interest and that the purpose and intent of the Ordinance is observed.
 - (2) All requests for a modifications from an applicant shall be in writing and shall accompany and be a part of the application for approval of a SWM Site Plan and/or a subdivision or land development plan as applicable. The request shall state in full the grounds and facts of unreasonableness or hardship on which the request is based, the provision or provisions of the Ordinance involved and the minimum modification necessary.
 - (3) In granting of any modification, the Municipality may attaché such reasonable conditions and safeguards as it may deem necessary to implement the purposes of the Act 167 Plan and this Ordinance.
 - (4) The governing body of the Municipality shall keep a written record of all action on requests for modifications. The response of any consultation and/or review by DEP shall be included as an original report if available or otherwise documented in the required written record.

(c) <u>SWM Site Plan Review and Approval Procedure:</u>

- (1)If a SWM Site Plan does not involve a subdivision and/or land development, the review of the SWM Site, recommendations, approval, approval with conditions, or disapproval, i.e., the review and decision period, shall occur within forty-five (45) days of submission to the Municipality. However, the Municipality, in its sole discretion, may extend the review and decision period another forty-five (45) days due to the nature of the application and/or site conditions. If an extension of another forty-five (45) days is imposed or granted by the Municipality beyond the first forty-five (45) day review and decision period designated by this paragraph, the Municipality shall notify the applicant in writing and deliver such notice to said applicant within fifteen (15) days of the decision to extend the review and decision period by the Municipality. If no extension is imposed or granted by the Municipality beyond the first forty five (45) day review and decision period, and no decision has been rendered by the Municipality within that period, the SWM Site Plan shall be deemed approved. Similarly, if after a forty-five (45) day extension of the review and decision period has been imposed or granted by the Municipality, and no decision has been rendered by the Municipality within that period, the SWM Site Plan shall be deemed approved.
- (2) If a SWM Site Plan involves a subdivision and/or land development plan, the period of time from the submission to the Municipality of the subdivision and/or land development plan application which includes the SWM Plan and the approval, approval with conditions, or disapproval, i.e., review and decision period, shall be 90 days, in accordance with the procedure for approval of plats in Section 508 of the Pennsylvania Municipalities Planning Code.
- (3) From the time an application for approval of a plat involving a subdivision or land development plan, whether preliminary or final, which includes a SWM Site Plan, is duly filed with the Municipality, no change or amendment of this Ordinance or other governing ordinance or plan shall affect the decision on such application in accordance with the provisions of the governing ordinances or plans as they stood at the time the application was duly filed, as specified in Section 508. (4) (I) of the Pennsylvania Municipalities Planning Code.

(d) <u>Decision Notification Procedure:</u> In all cases, the decision of the Municipality to approve or disapprove the SWM Site Plan shall be in writing and shall be delivered to the applicant no later than 15 days following the decision. If the SWM Site Plan is disapproved, the written decision by the Municipality shall specify the defects in the application, describe the requirements which were not met, and shall cite the provisions of the Ordinance relied upon. If the SWM Site Plan is approved with conditions, the notification to the applicant shall state the acceptable conditions for approval and the time limit for satisfying such conditions. The time limit for satisfying conditions of approval shall be the time limit prescribed for conditional approval of subdivision and land development plans as stated in the Municipality's Subdivision and Land Development Ordinance, or the York County Subdivision and Land Development Ordinance where applicable. (Ord. 32-2011. Passed 10-4-11.)

938.04 REVISION OF PLANS.

A revision to a previously submitted SWM Site Plan that involves a change in SWM BMPs, stormwater management facilities, or changes in analytical techniques, or that involves the relocation or redesign of SWM BMPs, or that is necessary because soil or other conditions are not as stated on the SWM Site Plan, as determined by the Municipality, shall require a re-submission of the revised SWM Site Plan in accordance with this Article, including applicable fees. For NPDES permitted sites, any revised SWM Site Plan shall also be re-submitted to the York County Conservation District for review. In the case of a SWM Site Plan which contains minor deficiencies, such as a missing label, omission of a required note or minor construction detail, as determined by the Municipality, the Municipality may accept a re-submission of such SWM Site Plan without the requirement of a review fee, or for a lesser fee as provided for in the Municipalities fee schedule. (Ord. 32-2011. Passed 10-4-11.)

938.05 RE-SUBMISSION OF DISAPPROVED SWM SITE PLANS.

A disapproved SWM Site Plan may be resubmitted, with the revisions addressing the Municipality's concerns as stated regarding the original submission, to the municipality in accordance with this Article. The applicable review fee must accompany the submission of a revised SWM Site Plan, unless such fee is waived by the Municipality. (See Section 938.04.) (Ord. 32-2011. Passed 10-4-11.)

938.06 AUTHORIZATION TO CONSTRUCT AND TERM OF VALIDITY.

(a) <u>SWM Site Plans Independent of Subdivision and Land Development Plans.</u> The Municipality's approval of a SWM Site Plan, when such Plan is submitted independent of a subdivision and/or land development plan, authorizes the regulated activities contained in the SWM Site Plan for a maximum term of validity of five (5) years following the date of approval. The Municipality may, in its sole discretion, specify a term of validity shorter than five (5) years in the approval for any specific SWM Site Plan, particularly if the nature of the proposed SWM facilities require more frequent maintenance and/or short-term replacement of certain components. Terms of validity shall commence on the date the Municipality signs the approval for an SWM Site Plan. If an approved SWM Site Plan is not completed according to Section 938.07 within the term of validity, then the Municipality may consider the SWM Site Plan disapproved and may revoke any and all permits. SWM Site Plans that are considered disapproved by the Municipality may be resubmitted in accordance with Section 938.05 of this Ordinance.

(b) <u>SWM Site Plans Included in a Subdivision and/or Land Development Plan.</u> The Municipality's approval of a SWM Site Plan, which is a part of a subdivision and/or land development plan, authorizes that plan and the regulated activities therein so that no subsequent change or amendment in this Ordinance or other governing ordinances or plans shall be applied to affect adversely the right of the applicant to commence and to complete any aspect of the approved development in accordance with the terms of such approval within five years from such approval, as specified in Section 508. (4) (ii) - (vii) of the Pennsylvania Municipalities Planning Code. (Ord. 32-2011. Passed 10-4-11.)

52E	Site Plan Requirements	938.07

938.07 AS-BUILT PLANS, COMPLETION CERTIFICATE, AND FINAL INSPECTION.

(a) The developer shall be responsible for providing as-built plans of all SWM BMPs included in the approved SWM Site Plan. The as-built plans and an explanation of any discrepancies with the construction plans shall be submitted to the Municipality.

(b) The as-built submission shall include a certification of completion signed by a qualified person verifying that all permanent SWM BMPs have been constructed according to the approved plans and specifications. If any licensed qualified person contributed to the construction plans, then a licensed qualified person must sign the completion certificate.

(c) After receipt of the completion certification by the Municipality, the Municipality may conduct a final inspection to verify compliance with, and accuracy of, the as-built plans.

(d) The financial guarantee, as discussed under Section 940.03, shall not be released by the Municipality until the items in this Section are completed. (Ord. 32-2011. Passed 10-4-11.)

ARTICLE 939 Construction Inspections

939.01 Schedule of inspections.

939.01 SCHEDULE OF INSPECTIONS.

(a) The Municipal Engineer or his municipal assignee shall inspect phases of the installation of the permanent stormwater management facilities as deemed appropriate by the Municipal Engineer. It is the responsibility of the permittee to notify the Municipal Engineer forty-eight (48) hours in advance of the beginning of construction of stormwater management facilities. Individual residential on-lot stormwater management systems shall be inspected by the Municipal staff.

(b) During any stage of the work, if the Municipal Engineer determines that the permanent stormwater management facilities are not being installed in accordance with the approved Stormwater Management Plan, the Municipality shall revoke any existing approvals issued under this Ordinance until a revised Drainage Plan is submitted and approved, as specified in this Ordinance. (Ord. 32-2011. Passed 10-4-11.)

ARTICLE 940 Operation and Maintenance

- 940.01 Responsibilities of developers
 - and landowners.
- 940.02 Operation and maintenance agreements.
- 940.03 Performance guarantee.
- 940.04 Maintenance guarantee.
- 940.05 Municipal Stormwater Maintenance Fund.

940.01 RESPONSIBILITIES OF DEVELOPERS AND LANDOWNERS.

(a) The Municipality shall make the final determination on the continuing maintenance responsibilities prior to final approval of the SWM Site Plan. The Municipality may require a dedication of such facilities as part of the requirements for approval of the SWM Site Plan. Such a requirement is not an indication that the Municipality will accept the facilities. The Municipality reserves the right to accept or reject the ownership, maintenance, and operating responsibility for any portion of the stormwater management facilities and controls.

(b) Facilities, areas, or structures used as Stormwater Management BMPs shall be enumerated as permanent real estate appurtenances and recorded in the York County Recorder of Deeds Office as deed restrictions/protective covenants or easements that run with the land.

(c) The Operation and Maintenance (O&M) Plan shall be recorded as a restrictive deed covenant that runs with the land.

(d) The Municipality may take enforcement actions against an owner for any failure to satisfy the provisions of this Article.

(e) No person shall modify, remove, fill, landscape, or alter any SWM BMPs, facilities, areas, or structures without the written approval of the Municipality, with the exception of necessary maintenance activities such as mowing. (Ord. 32-2011. Passed 10-4-11.)

940.02 OPERATION AND MAINTENANCE AGREEMENTS.

(a) Prior to final approval of the SWM Site Plan, the property owner shall sign and record an Operation and Maintenance (O&M) Agreement (see Appendix A) covering all stormwater control facilities which are to be privately owned.

- (1) The owner, successor and assigns shall maintain all facilities in accordance with the approved maintenance schedule in the O&M Plan.
- (2) The owner shall convey to the Municipality easements to assure access for periodic inspections by the Municipality and maintenance, as necessary.
- (3) The owner shall keep on file with the Municipality the name, address, and telephone number of the person or company responsible for maintenance activities; in the event of a change, new information shall be submitted by the owner to the Municipality within ten (10) working days of the change.

(b) The owner is responsible for operation and maintenance (O&M) of the SWM BMPs. If the owner fails to adhere to the O&M Agreement, the municipality may perform the services required and charge the owner appropriate fees. Nonpayment of fees may result in a lien against the property.

(c) The Municipality is exempt from the requirement to sign and record an Operation and Maintenance Agreement.

(Ord. 32-2011. Passed 10-4-11.)

940.03 PERFORMANCE GUARANTEE.

For SWM Site Plans that involve subdivision and land development, the applicant shall provide a financial guarantee to the Municipality for the timely installation and proper construction of all stormwater management controls as required by the approved SWM Site Plan and this Ordinance in accordance with the provisions of Sections 509, 510, and 511 of the Pennsylvania Municipalities Planning Code.

(Ord. 32-2011. Passed 10-4-11.)

940.04 MAINTENANCE GUARANTEE.

For SWM Site Plans that involve the dedication of all or some of the required improvements following completion, the Municipality may require the posting of financial security to secure structural integrity of said improvements as well as the functioning of said improvements in accordance with the design and specifications as depicted on the SWM Site Plan for a term not to exceed 18 months from the date of acceptance of dedication. Said financial security shall be of the same type as otherwise required in Section 940.03 with regard to installation of such improvements, and the amount of the financial security shall not exceed 15% of the actual cost of installation of said improvements in accordance with the provisions of Section 509 of the Pennsylvania Municipalities Planning Code. (Ord. 32-2011. Passed 10-4-11.)

940.05 MUNICIPAL STORMWATER MAINTENANCE FUND.

(a) Persons installing stormwater storage facilities shall be required to pay a specified amount to the Municipal Stormwater Maintenance Fund to help defray costs of periodic inspections and maintenance expenses. The amount of the deposit shall be determined as follows:

<u>54C</u>		Operation and Maint	enance	940.05
	(1)	If the storage facility is to be cover the cost of periodic ins ten (10) years, as estimated b inspections expenses will be	privately owned and pections performed by the Municipal Eng assessed by Municij	d maintained, the deposit shall by Municipality for a period of gineer. After that period of time, pality on an as needed basis
	(2)	If the storage facility is to be shall cover the estimated cos years. The Municipal Engine information submitted by the	owned and maintair ts for maintenance a eer will establish the	ned by Municipality, the deposit and inspections for ten (10) e estimated costs utilizing
	(3)	The amount of the deposit to annual series values. The Mu	the fund shall be co unicipal Engineer sh	nverted to present worth of the all determine the present worth
	(4)	equivalents which shall be su The general formula for calcu- A. $I_{Ti} x I_R x N_i =$ B. $I_{Ci} + I_{Cii} + =$ C25 (I_C) = A_C D. $I_C + A_C = Ann$ E. Where: 1. BMP) 2. 3. 4. 5. 6. (Ord. 32-2011)	bject to the approva lating the annual in I_{ci} = I_C ual Inspection Cost I_{Ti} = Inspection Ti I_R = Inspection Ra N_i = Quantity of Pa I_{Ci} = Inspection C I_C = Total Inspection A_C = Administrativ . Passed 10-4-11.)	ne Per SWM BMP (Varies per te (Varies per Year) articular SWM BMP ost for Particular SWM BMP on Cost of all SWM BMPs ve Cost

ARTICLE 941 Fees and Expenses

941.01 General.

941.01 GENERAL.

(a) The developer shall be required to submit a Subdivision/Land Development or Building Permit Application prior to any stormwater management facilities construction. The fee for plan reviews, permit issuance, and inspections shall be established by Resolution of the City Council to defray the following expenses:

- (1) The review of the Stormwater Management/Erosion and Sedimentation Control Plan by the Municipal Engineer.
- (2) The site inspections.
- (3) The inspection of stormwater management facilities and drainage improvements during construction.
- (4) The final inspection upon completion of the stormwater management facilities and drainage improvements presented in the Stormwater Management/Erosion and Sedimentation Control Plan.
- (5) Any additional work required to enforce any permit provisions regulated by this Ordinance, correct violations, and assure proper completion of stipulated remedial actions.

(b) All fees shall be paid by the Applicant at the time of application and shall be included in the required deposit for review of Subdivision/Land Development Plans.

Any additional costs incurred by City in the administration of this Ordinance shall be charged to the applicant and shall be paid promptly by the Applicant. Upon completion of the construction of the stormwater management facility and upon final approval thereof by the Municipal Engineer, any monies in excess of the Municipality's costs or expenses deposited by the Applicant shall be refunded to the Applicant.

(Ord. 32-2011. Passed 10-4-11.)
ARTICLE 942 Detection and Elimination of Illicit Discharges to the Municipal Separate Storm Sewer System

942.01	Ultimate responsibility.
942.02	Prohibition of illicit discharges.
942.03	Prohibition of illicit
	connections.
942.04	Suspension of MS4 access.
942.05	Industrial or construction
	activity discharges.
942.06	Monitoring of discharges.
942.07	Requirements to prevent,
	control and reduce stormwater
	pollutants by the use of
	BMPs.

942.08 Watercourse protection.

- 942.09 Notification of spills.
- 942.10 Enforcement.
- 942.11 Appeals of notice of violation.
- 942.12 Enforcement measures after appeal.
- 942.13 Cost of abatement of violation.
- 942.14 Injunctive relief.
- 942.15 Compensatory action.
- 942.16 Violations deemed as public nuisance.
- 942.17 Criminal prosecution.
- 942.18 Attorney fees and costs.
- 942.19 Remedies not exclusive.

942.01 ULTIMATE RESPONSIBILITY.

The standards set forth herein and promulgated by this Article are minimum standards; therefore, this Article does not intend nor imply that compliance by any person will ensure that there will be no contamination, pollution, nor unauthorized discharge of pollutants. (Ord. 32-2011. Passed 10-4-11.)

942.02 PROHIBITION OF ILLICIT DISCHARGES.

(a) No person shall discharge or cause to be discharged in to storm drain system or waters of this Commonwealth any materials, including, but not limited to, pollutants or waters containing pollutants that cause or contribute to a violation of applicable water quality standards, other than stormwater. Any discharge in violation of the Article shall be considered illicit discharges, except as exempted below.

- Discharges from firefighting activities	- Flows from riparian habitats and wetlands
- Potable water sources including water line flushing	- Uncontaminated water from foundations or from footing drains
- Irrigation drainage	- Lawn watering
- Air conditioning condensate	- Dechlorinated swimming pool discharges (less than one PPM chlorine)
- Springs	- Uncontaminated groundwater
- Water from crawl space pumps	- Water from individual residential car washing
- Pavement wash waters where spills or leaks of toxic or hazardous materials have not occurred (unless all spill material have been removed) and where detergents are not used	- Routine external building wash down (which does not use detergents or other compounds)
- Diverted stream flows	- Water discharged in well testing for potable water sources
- Groundwater Infiltration to Storm Drains	- Uncontaminated Pumped Groundwater
- Crawl Space Pumps	

(b) The commencement, conduct or continuance of any illicit discharge to the storm drain system or Waters of this Commonwealth is prohibited except as follows:

- (1) Discharges specified in writing by the Municipality as being necessary to protect public health and safety.
- (2) Dye testing is an allowable discharge, but requires a verbal notification to the Municipality 48 hours prior to the time of the test
- (3) The prohibition shall not apply to any non-stormwater discharge permitted under an NPDES permit, waiver, or waste discharge order issued to the discharger and administered under the authority of DEP; provided, that the discharge is in full compliance with all requirements of the permit, waiver, or order and other applicable laws and regulations; and, provided, that written approval has been granted for any discharge to the storm drain system and/or Waters of this Commonwealth.

(c) In the event that the Municipality or DEP determines that any of the discharges identified in Section 942.02(b) significantly contribute to pollution of the waters of this Commonwealth, Municipality or DEP will notify the responsible person(s) to cease the discharge. (Ord. 32-2011. Passed 10-4-11.)

	Detection and Elimination of Illicit Discharges	
<u>56C</u>	to the Municipal Separate Storm Sewer System	<u>942.06</u>

942.03 PROHIBITION OF ILLICIT CONNECTIONS.

The construction, use, maintenance or continued existence of Illicit Connections to the storm drain system is prohibited.

- (a) This prohibition expressly includes, without limitation, Illicit Connections made in the past, regardless of whether the connection was permissible under law or practices applicable or prevailing at the time of connection.
- (b) A person is considered to be in violation of this Article if the person connects a line conveying sewage to the MS4, or allows such a connection to continue. (Ord. 32-2011. Passed 10-4-11.)

942.04 SUSPENSION OF MS4 ACCESS.

(a) <u>Suspension due to Illicit Discharges in Emergency Situations.</u> The Municipality, the Commonwealth of Pennsylvania and the United States of America may, without prior notice, suspend MS4 discharge access to a person when such suspension is necessary to stop an actual or threatened discharge which presents or may present imminent and substantial danger to the environment, or to the health or welfare of persons, or to the MS4 or Waters of the Commonwealth of Pennsylvania, or the United States. If the violator fails to comply with a suspension order issued in an emergency, the Municipality may take such steps as deemed necessary to prevent or minimize damage to the MS4 or Waters of the Commonwealth of Pennsylvania or United States, or to minimize danger to persons, including, without limitations, entering the property for the purpose of disconnecting and/or performing emergency maintenance or repairs to storm sewers. In the event the Municipality must disconnect or perform emergency maintenance and/or repairs, the Municipality may file and attach a municipal lien on the property which is causing Illicit Discharge.

(b) <u>Suspension due to the Detection of Illicit Discharge or Illicit Connection.</u> Any person discharging to the MS4 in violation of this Article may have their MS4 access terminated if such termination would abate or reduce an Illicit Discharge or Illicit Connection. The Municipality will notify a violator of the proposed termination of its MS4 access. The violator may petition the Municipality 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. (Ord. 32-2011. Passed 10-4-11.)

942.05 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 Municipality prior to the allowing of discharges to the MS4. (Ord. 32-2011. Passed 10-4-11.)

942.06 MONITORING OF DISCHARGES.

(a) <u>Applicability</u>. This section applies to all facilities that have storm water discharges associated with industrial activity, including construction activity.

- (b) <u>Access to Facilities.</u>
 - (1) The Municipality shall be permitted to enter and inspect facilities subject to regulation under this Article as often as may be necessary to determine compliance with this Article. If a discharger has security measures in force which require proper identification and clearance before entry into its premises, the discharger shall make the necessary arrangements to allow access to representatives of the Municipality.
 - (2) Facility operators shall allow the Municipality ready access to all parts of the premises for the purposes of inspection, sampling, examination and copying of records that must be kept under the conditions of an NPDES permit to discharge storm water, and the performance of any additional duties as defined by state and federal law.
 - (3) The Municipality shall have the right to set up on any permitted facility such devices as are necessary in the opinion of the Municipality to conduct monitoring and/or sampling of the facility's storm water discharge.
 - (4) The Municipality has the right to require the discharger to install monitoring equipment as necessary. The facility's sampling and monitoring equipment shall be maintained at all times in a safe and proper operating condition by the discharger at its own expense. All devices used to measure stormwater flow and quality shall be calibrated to ensure their accuracy.
 - (5) Any temporary or permanent obstruction to safe and easy access to the facility to be inspected and/or sampled shall be promptly removed by the operator at the written or oral request of the Municipality and shall not be replaced. The costs of clearing such access shall be borne by the operator.
 - (6) Unreasonable delays in allowing the Municipality access to a permitted facility are a violation of a storm water discharge permit and of this Article. A person who is the operator of a facility with a NPDES permit to discharge storm water associated with industrial activity commits an offense if the person denies the Municipality reasonable access to the permitted facility for the purpose of conducting any activity authorized or required by this Article.
 - (7) If the Municipality has been refused access to any part of the premises from which stormwater is discharged, and the Municipality representative is able to demonstrate probable cause to believe that there may be a violation of this Ordinance, or that there is a need to inspect and/or sample as part of a routine inspection and sampling program designed to verify compliance with this Article or any order issued hereunder, or to protect the overall public health, safety, and welfare of the community, then the authorized enforcement agency may seek issuance of a search warrant from any court of competent jurisdiction. (Ord. 32-2011. Passed 10-4-11.)

942.07 REQUIREMENTS TO PREVENT, CONTROL AND REDUCE STORMWATER POLLUTANTS BY THE USE OF BMPs.

The Municipality will adopt requirements identifying Best Management Practices for any activity, operation, or facility which may cause or contribute to pollution or contamination of storm water, the storm drain system, or Waters of the Commonwealth of Pennsylvania or the United States. The owner or operator of a commercial or industrial establishment shall provide, at their own expense, reasonable protection from accidental discharge of prohibited materials or other wastes into the municipal storm drain system or watercourses through the use of these structural and non-structural BMPs. Further, any person responsible for a property or premises, which is, or may be, the source of an Illicit Discharge, may be required to implement, at said person's expense, additional structural and non-structural BMPs to prevent the further discharge of pollutants to the municipal separate storm sewer system. Compliance with all terms and conditions of a valid NPDES permit authorizing the discharge of storm water associated with industrial activity, to the extent practicable, shall be deemed in compliance with the provisions of this section. These BMPs shall be part of a stormwater pollution prevention plan (SWPP) as necessary for compliance with requirements of the NPDES permit. (Ord. 32-2011. Passed 10-4-11.)

942.08 WATERCOURSE PROTECTION.

Every person owning property through which a watercourse passes, or such person's lessee, shall keep and maintain that part of the watercourse within the property free of trash, debris, excessive vegetation, and other obstacles that would pollute, contaminate, or significantly retard the flow of water through the watercourse. In addition, the owner or lessee shall maintain existing privately owned structures within or adjacent to a watercourse, so that such structures will not become a hazard to the use, function, or physical integrity of the watercourse. (Ord. 32-2011. Passed 10-4-11.)

942.09 NOTIFICATION OF SPILLS.

Notwithstanding other requirements of law, as soon as any person responsible for a facility or operation, or responsible for emergency response for a facility or operation has information of any known or suspected release of materials which are resulting or may result in Illicit Discharges or pollutants discharging into storm water, the storm drain system, or water of the Commonwealth of Pennsylvania or the United States, said person shall take all necessary steps to ensure the discovery, containment, and cleanup of such release. In the event of such a release of hazardous materials said person shall immediately notify emergency response agencies of the occurrence via emergency dispatch services. In the event of a release of non-hazardous materials, said person shall notify the authorized enforcement agency in person or by phone or facsimile no later than the next business day. Notifications in person or by phone shall be confirmed by written notice addressed and mailed to Municipality within three business days of the phone notice. If the discharge of prohibited materials emanates from a commercial or industrial establishment, the owner or operator of such establishment shall also retain an on-site written record of the discharge and the actions taken to prevent its recurrence. Such records shall be retained for at least three years. (Ord. 32-2011. Passed 10-4-11.)

942.10 ENFORCEMENT.

(a) Whenever the Municipality finds that a person has violated a prohibition or failed to meet a requirement of this Article, the Municipality may order compliance by written notice of violation to the responsible person. Such notice may require without limitation:

- (1) The performance of monitoring, analyses, and reporting;
- (2) The elimination of Illicit Connections or discharges;
- (3) That violating discharges, practices, or operations shall cease and desist;
- (4) The abatement or remediation of storm water pollution or contamination hazards and the restoration of any affected property; and
- (5) Payment of a fine to cover administrative and remediation costs; and
- (6) The implementation of source control or treatment BMPs.

(b) If abatement of a violation and/or restoration of affected property is required, the notice shall set forth a deadline within which such remediation or restoration must be completed. Said notice shall further advise that, should the violator fail to remediate or restore within the established deadline, the work will be done by a designated governmental agency or a contractor and the expense thereof shall be charged to the violator or assessed as a municipal lien on the property. (Ord. 32-2011. Passed 10-4-11.)

942.11 APPEALS OF NOTICE OF VIOLATION.

Any person receiving a Notice of Violation may appeal the determination of the Municipality. The notice of appeal must be received within 30 days from the date of the Notice of Violation. A hearing on the appeal before the appropriate authority or his/her designee shall take place within 15 days from the date of receipt of the notice of appeal. The decision of the Municipal authority or their designee shall be final.

(Ord. 32-2011. Passed 10-4-11.)

942.12 ENFORCEMENT MEASURES AFTER APPEAL.

If the violation has not been corrected pursuant to the requirements set forth in the Notice of Violation, or, in the event of an appeal, within 15 days of the hearing representative's decision upholding the decision of the Municipality, then representatives of the Municipality 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 Municipality or designated contractor to enter upon the premises for the purposes set forth above. (Ord. 32-2011. Passed 10-4-11.)

942.13 COST OF ABATEMENT OF VIOLATION.

(a) Within 30 days after abatement of the violation, the owner of the property will be notified of the cost of abatement, including administrative costs. The property owner may thereafter file a written protest objecting to the amount of the assessment within 30 days. If the amount due is not paid within a timely manner as determined by the decision of the Municipality 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.

	Detection and Elimination of Illicit Discharges	
56G	to the Municipal Separate Storm Sewer System	942.19

(b) Any person violating any of the provisions of this Article shall become liable to the Municipality by reason of such violation. The liability shall be paid in not more than 12 equal payments. Interest at the rate of 12 percent per annum shall be assessed on the balance beginning on the 1st day following discovery of the violation.

(Ord. 32-2011. Passed 10-4-11.)

942.14 INJUNCTIVE RELIEF.

It shall be unlawful for any person to violate any provision or fail to comply with any of the requirements of this Article. If a person has violated or continues to violate the provisions of this Article, the Municipality may petition for a preliminary or permanent injunction restraining the person from activities which would create further violations or compelling the person to perform abatement or remediation of the violation.

(Ord. 32-2011. Passed 10-4-11.)

942.15 COMPENSATORY ACTION.

In lieu of enforcement proceedings, penalties, and remedies authorized by this Article, the Municipality may impose upon a violator alternative compensatory actions, such as storm drain stenciling, attendance at compliance workshops, creek cleanup, etc. (Ord. 32-2011. Passed 10-4-11.)

942.16 VIOLATIONS DEEMED AS PUBLIC NUISANCE.

In addition to the enforcement processes and penalties provided, any condition caused or permitted to exist in violation of any of the provisions of this Article is a threat to public health, safety, and welfare, and is declared and deemed a public nuisance, and may be summarily abated or restored at the violator's expense, and/or a civil action to abate, enjoin, or otherwise compel the cessation of such nuisance may be taken.

(Ord. 32-2011. Passed 10-4-11.)

942.17 CRIMINAL PROSECUTION.

Any person that has violated or continues to violate this any section of this Article 942 shall be liable to criminal prosecution to the fullest extent of the law, and shall be subject to a criminal penalty of \$1,000 dollars per violation per day and/or imprisonment for a period of time not to exceed 90 days. (Ord. 32-2011. Passed 10-4-11.)

942.18 ATTORNEY FEES AND COSTS.

The Municipality may recover all attorney's fees, court costs and other expenses associated with enforcement of this Article, either criminal or civil, including sampling and monitoring expenses or other costs of investigation. (Ord. 32-2011. Passed 10-4-11.)

Old. 52-2011. Tassed 10-4-11.)

942.19 REMEDIES NOT EXCLUSIVE.

The remedies listed in this Article are not exclusive of any other remedies available under any applicable federal, state or local law and it is within the discretion of the Municipality to seek cumulative remedies.

(Ord. 32-2011. Passed 10-4-11.)

ARTICLE 943 Enforcement and Penalties

- 943.01 Right-of-entry.
- 943.02 Inspection.
- 943.03 Notification.
- 943.04 Enforcement.
- 943.05 Suspension and revocation.
- 943.06 Penalties.
- 943.07 Appeals.

(a)

943.01 RIGHT-OF-ENTRY.

Upon presentation of proper credentials, the Municipality may enter at reasonable times upon any property within the Municipality to inspect the condition of the stormwater structures and facilities in regard to any aspect regulated by this Ordinance. (Ord. 32-2011. Passed 10-4-11.)

943.02 INSPECTION.

SWM BMPs shall be inspected by the landowner, or the owner's designee, including the Municipality for dedicated and owned facilities, according to the following list of minimum frequencies:

- <u>Annually.</u>
 - (1) During or immediately after the cessation of a ten (10)-year or greater storm, i.e., a storm of a estimated frequency of recurrence of ten (10) years or greater interval of time.
 - (2) A report of all inspections shall be submitted to the Municipality annually.
 - All inspection records shall be maintained by the landowner and shall be made available to the Municipality upon written request (Ord. 32-2011. Passed 10-4-11.)

943.03 NOTIFICATION.

In the event that a person fails to comply with the requirements of this Ordinance, or fails to conform to the requirements of any permit issued hereunder, the Municipality shall provide written notification of the violation. Such notification shall set forth the nature of the violations and establish a time limit for the correction of these violation(s). Failure to comply within the time specified shall subject such person to the penalty provisions of this Ordinance. All such penalties shall be deemed cumulative and do not prevent the Municipality from pursuing any and all remedies. It shall be the responsibility of the Owner of the real property on which any Regulated Activity is proposed to occur, is occurring, or has occurred, to comply with the terms and conditions of this Ordinance. (Ord. 32-2011. Passed 10-4-11.)

943.04 ENFORCEMENT.

(a) It shall be unlawful for a person to undertake any regulated activity except as provided in an approved SWM Site Plan, unless specifically exempted in Section 937.02.

(b) It shall be unlawful to violate any Section of this Ordinance.

(c) Inspections regarding compliance with the SWM Site Plan are a responsibility of the Municipality. (Ord. 32-2011. Passed 10-4-11.)

943.05 SUSPENSION AND REVOCATION.

(a) Any approval or permit issued by the Municipality pursuant to this Ordinance may be suspended or revoked for:

- (1) Non-compliance with or failure to implement any provision of the approved SWM Site Plan or O&M Agreement.
- (2) A violation of any provision of this Ordinance or any other applicable law, ordinance, rule, or regulation relating to the Regulated Activity.
- (3) The creation of any condition or the commission of any act during the Regulated Activity which constitutes or creates a hazard, nuisance, pollution, or endangers the life or property of others.
- (b) A suspended approval shall be reinstated by the Municipality when:
 - (1) The Municipality has inspected and approved the corrections to the violations that caused the suspension.
 - (2) The Municipality is satisfied that the violation has been corrected.

(c) An approval that has been revoked by the Municipality cannot be reinstated. The applicant may apply for a new approval under the provisions of this Ordinance.

(d) If a violation causes no immediate danger to life, public health, or property, at its sole discretion, the Municipality may provide a limited time period for the owner to correct the violation. In these cases, the Municipality 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 municipality may revoke or suspend any, or all, applicable approvals and permits pertaining to any provision of this Ordinance. (Ord. 32-2011. Passed 10-4-11.)

943.06 PENALTIES.

(a) Any person, partnership or corporation who or which has violated the provisions of this Ordinance shall, upon being found liable therefore in a civil enforcement proceeding commenced by the Municipality, pay a judgement of not more than one thousand dollars (\$1,000.00). No judgement shall commence or be imposed, levied or payable until the date of the determination of a violation by the district justice. If the defendant neither pays nor timely appeals the judgement, the Municipality may enforce the judgement pursuant to the applicable rules of civil procedure. Each day that a violation continues shall constitute a separate violation, unless the district justice determining that there has been a violation further determines that there has been a good faith basis for the person, partnership or corporation violating the Ordinance to have believed that there was no such violation, in which event there shall be deemed to have been only one such violation. The Court of Common Pleas, upon petition, may grant an order of stay, upon cause shown, tolling the per diem judgement pending a final adjudication of the violation and judgement.

(b) The Municipality 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. (Ord. 32-2011. Passed 10-4-11.)

943.07 APPEALS.

(a) Any person aggrieved by any action of the Municipality or its designee, relevant to the provisions of this Ordinance, may appeal to the City Council within 30 days of that action.

(b) Any person aggrieved by any decision of the Municipality, relevant to the provisions of this Ordinance, may appeal to the York County Court of Common Pleas within 30 days of the Municipality's decision. (Ord. 32-2011. Passed 10-4-11.)

944.01 References.

944.01 REFERENCES.

(a) Pennsylvania Department of Environmental Protection. No. 363-0300-002 (December 2006), as amended and updated. Pennsylvania Stormwater Best Management Practices Manual. Harrisburg, PA.

(b) Pennsylvania Department of Environmental Protection. No. 363-2134-008 (April 15, 2000), as amended and updated. Erosion and Sediment Pollution Control Program Manual. Harrisburg, PA.

(c) U.S. Department of Agriculture, National Resources Conservation Service (NRCS). National Engineering Handbook. Part 630: Hydrology, 1969-2001. Originally published as the National Engineering Handbook, Section 4: Hydrology. Available from the NRCS online at: http://www.nrcs.usda.gov/.

(d) U.S. Department of Agriculture, Natural Resources Conservation Service. 1986. Technical Release 55: Urban Hydrology for Small Watersheds, 2nd Edition. Washington, D.C.

(e) U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service, Hydrometeorological Design Studies Center. 2004-2006. Precipitation-Frequency Atlas of the United States, Atlas 14, Volume 2, Version 3.0, Silver Spring, Maryland. Internet address: http://hdsc.nws.noaa.gov/hdsc/pfds/.

(f) Act of July 31, 1968, P.L. 85, No.247, The Pennsylvania Municipalities Planning Code, as amended. (Ord. 32-2011. Passed 10-4-11.)

APPENDIX A

OPERATION AND MAINTENANCE (O&M) AGREEMENT

STORMWATER MANAGEMENT BEST MANAGEMENT

PRACTICES (SWM BMPs)

THIS AGREEMENT, made and entered into this _____ day of , 20 _ , by and between , (hereinafter the "Landowner"), and _____, County, Pennsylvania, (hereinafter "Municipality");

WITNESSETH

WHEREAS, the Landowner is the owner of certain real property as recorded by deed in the land records of County, Pennsylvania, Deed Book at page , (hereinafter "Property").

WHEREAS, the Landowner is proceeding to build and develop the Property; and

WHEREAS, the SWM BMP Operation and Maintenance (O&M) Plan approved by the Municipality (hereinafter referred to as the "O&M Plan") for the property identified herein, which is attached hereto as Appendix A and made part hereof, as approved by the Municipality, provides for management of stormwater within the confines of the Property through the use of BMPs; and

WHEREAS, the Municipality, and the Landowner, his successors and assigns, agree that the health, safety, and welfare of the residents of the Municipality and the protection and maintenance of water quality require that on-site SWM BMPs be constructed and maintained on the Property; and

WHEREAS, the Municipality requires, through the implementation of the SWM Site Plan, that SWM BMPs as required by said SWM Site Plan and the Municipal 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 agree as follows:

1. The Landowner shall construct the BMPs in accordance with the plans and specifications identified in the SWM Site Plan.

- 2. The Landowner shall operate and maintain the BMPs as shown on the SWM 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 Municipality, its authorized agents and employees, to enter upon the property, at reasonable times and upon presentation of proper credentials, to inspect the BMPs whenever necessary. Whenever possible, the Municipality shall notify the Landowner prior to entering the property.
- 4. In the event the Landowner fails to operate and maintain the BMPs per paragraph 2., the Municipality or its representatives may enter upon the Property and take whatever action is deemed necessary to maintain said BMP(s). It is expressly understood and agreed that the Municipality 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 Municipality.
- 5. In the event the Municipality, 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 Municipality for all expenses (direct and indirect) incurred within ten (10) days of receipt of invoice from the Municipality.
- 6. The intent and purpose of this Agreement is to ensure the proper maintenance of the onsite BMPs by the Landowner; provided, however, that this Agreement shall not be deemed to create or effect any additional liability of any party for damage alleged to result from or be caused by stormwater runoff.
- 7. The Landowner, its executors, administrators, assigns, and other successors in interests, shall release the Municipality 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 BMP(s) by the Landowner or Municipality.
- 8. The Municipality may inspect the BMPs at a minimum of once every three (3) years to ensure their continued functioning. Optionally, at its sole discretion, the Municipality may inspect the BMPs at more or less frequent intervals.

This Agreement shall be recorded at the Office of the Recorder of Deeds of County, Pennsylvania, and shall constitute a covenant running with the Property and/or equitable servitude, and shall be binding on the Landowner, his administrators, executors, assigns, heirs, and any other successors in interests, in perpetuity. 60A

ATTEST:

WITNESS the following signatures and seals:

(SEAL) For the Municipality:

For the Landowner:

ATTEST:

 County of
 , Pennsylvania

 I, _______, a Notary Public in and for the county and state

 aforesaid, whose commission expires on the ______ day of ______, 20 , do

 hereby certify that

 whose name(s) is/are signed to the foregoing Agreement bearing date of the day of _______, 20 _____, has acknowledged the same before me in my said

 county and state.

 GIVEN UNDER MY HAND THIS
 day of _______, 20 _____.

NOTARY PUBLIC

(SEAL)

APPENDIX B

DISCONNECTED IMPERVIOUS AREA (DIA)

B.1. Rooftop Disconnection

When rooftop down spouts are directed to a pervious area that allows for infiltration, filtration, and increased time of concentration, the rooftop may qualify as completely or partially DIA and a portion of the impervious rooftop area may be excluded from the calculation of total impervious area.

A rooftop is considered to be completely or partially disconnected if it meets the requirements listed below:

- The contributing area of rooftop to each disconnected discharge is 500 square feet or less, and
- The soil, in proximity of the roof water discharge area, is not designated as hydrologic soil group "D" or equivalent, and
- The overland flow path from roof water discharge area has a positive slope of five percent (5%) or less.

For designs that meet these requirements, the portion of the roof that may be considered disconnected depends on the length of the overland path as designated in Table B.1.

Table B.1: Partial Rooftop Disconnection			
Length of Pervious Flow Path*	Roof Area Treated as Disconnected		
(ft.)	(% of contributing area)		
0 - 14	0		
15 - 29	20		
30 - 44	40		
45 - 59	60		
60 - 74	80		
75 or more	100		

* Flow path cannot include impervious surfaces and must be at least 15 feet from any impervious surfaces.

B.2. Pavement Disconnection

When pavement runoff is directed to a pervious area that allows for infiltration, filtration, and increased time of concentration, the contributing pavement area may qualify as a DIA that may be excluded from the calculation of total impervious area. This applies generally only to small or narrow pavement structures such as driveways and narrow pathways through otherwise pervious areas, e.g., a walkway or bike path through a park.

Pavement is disconnected if the pavement, or area adjacent to the pavement, meets the requirements below:

- The contributing flow path over impervious area is not more than 75 feet, and
- The length of overland flow is greater than or equal to the contributing length, and
- The soil is not designated as hydrologic soil group "D" or equivalent, and
- The slope of the contributing impervious area is five percent (5%) or less, and
- The slope of the overland flow path is five percent (5%) or less.

If the discharge is concentrated at one or more discrete points, no more than 1,000 square feet may discharge to any one point. In addition, a gravel strip or other spreading device is required for concentrated discharges. For non-concentrated discharges along the edge of the pavement, this requirement is waived; however, there must be a provision for the establishment of vegetation along the pavement edge and temporary stabilization of the area until vegetation becomes stabilized.

REFERENCE

Philadelphia Water Department. 2006. Stormwater Management Guidance Manual. Section 4.2.2: Integrated Site Design. Philadelphia, PA.

APPENDIX C

STORMWATER MANAGEMENT DISTRICT WATERSHED MAP

TABLE 1 **Runoff Curve Numbers** [From NRCS (SCS) TR-55]

HYDROLOGIC SOIL GROUP

LAND USE DESCRI		Α	В	С	D	
Open Space			44	65	77	82
Meadow			30**	58	71	78
Agricultural			59	71	79	83
Forest			36**	60	73	79
Commercial	(85% Impervious)		89	92	94	95
Industrial	(72% Impervious)		81	88	91	93
Institutional	(50% Impervious)		71	82	88	90
Residential						
Average Lot Size	% impervious					
1/8 acre or less*65		77	85	90	92	
1/8 - 1/3 acre	34		59	74	82	87
1/3 - 1 acre	23		53	69	80	85
1 - 4 acres	12		46	66	78	82
Farmstead			59	74	82	86
Smooth Surfaces (Cond Gravel or Bare Compac		98	98	98	98	
Water			98	98	98	98
Mining Newly Graded (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 2RATIONAL RUNOFF COEFFICIENTSBy Hydrologic Soils Group and Overland Slope (%)

С D В А Land Use 0-2% 0-2% 0-2% 0-2% 2-6% 6%+ 2-6% 6%+ 2-6% 6%+ 2-6% 6%+ Cultivated Land 0.08^a 0.13 0.16 0.11 0.15 0.21 0.14 0.19 0.26 0.18 0.23 0.31 0.14^b 0.18 0.22 0.16 0.21 0.28 0.20 0.25 0.34 0.24 0.29 0.41 Pasture 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 Meadow 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 0.27 0.30 0.33 0.42 Lot Size 1/8 Acre 0.25 0.28 0.31 0.30 0.25 0.33 0.38 0.36 0.33 0.37 0.40 0.35 0.39 0.44 0.38 0.42 0.49 0.41 0.45 0.54 Lot 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

	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
Lot 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
Lot 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
Industrial	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	
					***	0.72		0.72	0.72				0.72	0.72	
	0.88	0.88	0.89		0.89	0.89	0.89	0.72	0.89	0.89	0.90		0.89	0.89	0.90
	0.88	0.88	0.89		0.89	0.89	0.89	0.72	0.89	0.89	0.90		0.89	0.89	0.90
Streets	0.88 0.70	0.88 0.71	0.89 0.71		0.89	0.89	0.89 0.74	0.72	0.89	0.89	0.90 0.76		0.89	0.89	0.90 0.78
Streets	0.88 0.70 0.76	0.88 0.71 0.77	0.89 0.71 0.79		0.89 0.71 0.80	0.89 0.72 0.82	0.89 0.74 0.84	0.72	0.89 0.72 0.84	0.89 0.73 0.85	0.90 0.76 0.89		0.72 0.89 0.73 0.89	0.89 0.75 0.91	0.90 0.78 0.95
Streets	0.88 0.70 0.76	0.88 0.71 0.77	0.89 0.71 0.79		0.89 0.71 0.80	0.89 0.72 0.82	0.89 0.74 0.84		0.89 0.72 0.84	0.89 0.73 0.85	0.90 0.76 0.89		0.72 0.89 0.73 0.89	0.89 0.75 0.91	0.90 0.78 0.95
Streets Open Space	0.88 0.70 0.76 0.05	0.88 0.71 0.77 0.10	0.89 0.71 0.79 0.14		0.89 0.71 0.80 0.08	0.89 0.72 0.82 0.13	0.89 0.74 0.84 0.19		0.72 0.89 0.72 0.84 0.12	0.89 0.73 0.85 0.17	0.90 0.76 0.89 0.24		0.72 0.89 0.73 0.89 0.16	0.89 0.75 0.91 0.21	0.90 0.78 0.95 0.28
Streets Open Space	0.88 0.70 0.76 0.05 0.11	0.88 0.71 0.77 0.10 0.16	0.89 0.71 0.79 0.14 0.20		0.89 0.71 0.80 0.08 0.14	0.72 0.89 0.72 0.82 0.13 0.19	0.89 0.74 0.84 0.19 0.26		0.72 0.89 0.72 0.84 0.12 0.18	0.89 0.73 0.85 0.17 0.23	0.90 0.76 0.89 0.24 0.32		0.72 0.89 0.73 0.89 0.16 0.22	0.75 0.91 0.21 0.27	0.90 0.78 0.95 0.28 0.39
Streets Open Space	0.88 0.70 0.76 0.05 0.11	0.88 0.71 0.77 0.10 0.16	0.89 0.71 0.79 0.14 0.20		0.89 0.71 0.80 0.08 0.14	0.89 0.72 0.82 0.13 0.19	0.89 0.74 0.84 0.19 0.26		0.72 0.89 0.72 0.84 0.12 0.18	0.89 0.73 0.85 0.17 0.23	0.90 0.76 0.89 0.24 0.32		0.72 0.89 0.73 0.89 0.16 0.22	0.75 0.91 0.21 0.27	0.90 0.78 0.95 0.28 0.39
Streets Open Space Parking	0.88 0.70 0.76 0.05 0.11 0.85	0.88 0.71 0.77 0.10 0.16 0.86	0.89 0.71 0.79 0.14 0.20 0.87		0.89 0.71 0.80 0.08 0.14 0.85	0.72 0.89 0.72 0.82 0.13 0.19 0.86	0.89 0.74 0.84 0.19 0.26 0.87		0.72 0.89 0.72 0.84 0.12 0.18 0.85	0.89 0.73 0.85 0.17 0.23 0.86	0.90 0.76 0.89 0.24 0.32 0.87		0.72 0.89 0.73 0.89 0.16 0.22 0.85	0.75 0.91 0.21 0.27 0.86	0.90 0.78 0.95 0.28 0.39 0.87

^a Runoff coefficients for storm recurrence intervals less than 25 years.

^b Runoff coefficients for storm recurrence intervals 25 years or more.

Source: Rawls, W.J., S.L. Wong and R.H. McCuen, 1981, "Comparison of Urban Flood Frequency Procedures", Preliminary Draft, U. S. Department of Agriculture, Soil Conservation Service, Baltimore, MD.

TABLE 3

Roughness Coefficients (Manning's "n") for Overland Flow (U.S. Army Corps Of Engineers, HEC-1 Users Manual)

Surface Description n Dense Growth 0.4 0.5 Pasture 0.3 0.4 _ 0.2 0.3 Lawns -Bluegrass Sod 0.2 _ 0.5 - 0.2 Short Grass Prairie 0.1 Sparse Vegetation Bare Clay-Loam Soil (eroded) 0.05 -0.13 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)

Surface Description	_n
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

City of York, Pennsylvania Municipal Separate Storm Sewer System (MS4) Stormwater Management Program (NPDES PAG133596)

MS4 – STORMWATER ORDINANCE ADOPTION STANDARD OPERATING PROCEDURE

Last revised: 7/11/2014

Prepared by City of York, Pennsylvania Department of Public Works

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Appendices

Appendix A:	Example Ordinance with Format, Strike-Through, and Bolded Highlighted Text
Appendix B:	Example Proof of Publication

Note: This SOP is written in the second person for ease of reading.

Abbreviations

- <u>**BMP**</u> Best Management Practice
- MCM Minimum Control Measure
- MS4 Municipal Separate Storm Sewer System
- **<u>NPDES</u>** National Pollution Discharge Elimination System
- PADEP Pennsylvania Department of environmental Protection
- **<u>SOP</u>** Standard Operating Procedure
- **<u>USEPA</u>** United States Environmental Protection Agency

1. Introduction

This SOP provides the necessary steps to amend an existing, or pass a new, stormwater management ordinance that meets the requirements of the City of York's General MS4 NPDES permit. The following sections of the permit reference stormwater ordinance requirements:

- Part A, paragraph 2 to enact stormwater ordinances satisfying specific requirements.
- Part B.2.c to include ordinance provisions that ensure the proper operation and maintenance of all stormwater BMPs and all pollutant reduction BMPs that discharge into the MS4 stormwater system (this includes owners and operators of all BMPs including the City of York).
- Part A.2.d-e to maintain stormwater ordinances and prevent increased pollutant loadings.
- Appendix A, MCM#2 Public Involvement / Participation, BMP 2 to provide adequate public notice and opportunities for public review, input and feedback.
- Appendix A, MCM#3 Illicit Discharge Detection and Elimination, BMP 5 to enact a stormwater management ordinance to implement and enforce a stormwater management program that prohibits non-stormwater discharges.
- Appendix A, MCM#3 Illicit Discharge Detection and Elimination, BMP 5 to maintain, update, implement and enforce a stormwater management ordinance. Ordinances must be updated to meet the requirements of the NPDES permit.
- Appendix A, MCM#4 Construction Site Stormwater Runoff Control, BMP 2 to enact, implement and enforce an ordinance that requires implementation of erosion and sediment control BMPs, including sanctions to ensure compliance.
- Appendix A, MCM#5 Post-Construction Stormwater Management in New and Re-development Activities, BMP 4 to enact, implement and enforce an ordinance or other regulatory mechanism to address post-construction stormwater runoff from new development and redevelopment projects, as well as sanctions and penalties associated with non-compliance.

In addition to the City of York general stormwater permit, stormwater ordinances may also be required by other state or federal regulations (i.e., floodplain management, Act 167 ordinances). Additional general ordinance adoption references that may be useful include: Articles 101 and 115 of the York City Code, 3rd Class Charter Law (53 P.S. §41607(b)), and the Pennsylvania Sunshine Act (65 Pa. C.S. Chapter 7).

2. Stormwater Ordinance Adoption Procedure

The following steps walk you through the stormwater ordinance adoption process. The procedure is the same for passage of all ordinances in Pennsylvania 3rd Class Cities that do not require public hearings.

This SOP does not cover specific City Council rules and procedures. Questions regarding City Council procedures should be directed to the City Clerk and City Solicitor.

2.1. Standard Ordinance Format

The following standard is used for ordinances submitted to City Council for consideration:

- Font 'Times New Roman' in 12 point
- Deletions to an ordinance are indicated using a strike through (i.e., deleted text). Strike through also applies to punctuation marks and section/subsection numbering.
- Additions to an ordinance are indicated using bolded and underlined text (i.e., <u>textual additions</u>). Bolded and underlined text also applies to punctuation marks and section/subsection numbering.
- Numbering of articles, parts, sections, and subsections follow the format already in use by the York City Code. Format requirements are also stated in York City Code Article 101.03, Amendments and Supplements; Numbering.

• An example ordinance amendment is located in Appendix A.

2.2. Steps

Unless otherwise required by law, the following steps are used to amend an existing stormwater ordinance or adopt a new stormwater ordinance. The following steps can be used as a checklist to track the progress of the ordinance in the approval process.

2.2.1. Internal Staff Process

- Draft the ordinance or amendments to meet the requirements of the MS4 permit.
- It is the duty of the City of York to ensure that its stormwater management ordinances are designed to prevent increased loadings of pollutants and not cause or contribute to a violation of water quality standards by any discharges from its stormwater system (ref: NPDES permit Part A.2.e). Review the ordinance to ensure this requirement is met.
- The ordinance must include provisions to ensure that proper operation and maintenance is performed on all stormwater BMPs and that there is a reduction in pollutants from BMPs that discharge into the MS4 system. (This applies to the owners and operators of all such BMPs, including the City of York.)
- At times, template language will be provided (i.e., by PADEP, USEPA or the York County Planning Commission). It is very important to thoroughly read any template language, and modify accordingly!!! Oftentimes, template language will not be applicable either to Pennsylvania or to a City of the Third Class, or other sections of the City of York Code may already address part of the template language.
- Note that any stormwater changes that specifically impact the floodplain or floodway will need to be checked against state and federal floodplain management requirements for compliance.
- Submit the draft ordinance to the City Engineer and lead City enforcement staff for review and comment.
- Incorporate the staff comments.
- If you know in advance of any expressed opinions from the public regarding stormwater, incorporate them into the draft ordinance if appropriate. For example, the public may have expressed opinions during Council meetings, informal discussions with staff, etc. Some comments may be more appropriately addressed *via* another means (i.e., the enforcement response plan, policy of Permits, Planning & Zoning Office, etc.).
- Submit the draft to the City Solicitor for review and comment in accordance with Article 115.01(a). If you have any specific questions, be sure to call them out in the cover memorandum requesting review.
- Incorporate City Solicitor comments into the draft ordinance. If changes are substantial, or if you are unsure if the changes you made meet the intent of the City Solicitor's comments, resubmit for a second round of City Solicitor comment and final approval.
- You are ready to move on to the next step: Public Comment.

2.2.2. Obtaining Public Comment

• The draft ordinance should now be ready to present to the public for comment. There are four measures for obtaining public input on stormwater ordinances required by the MS4 permit: advertising the ordinance; providing opportunities for public comment; evaluating public input and feedback; and, documenting the comments and the municipal response to the comments.

- Provide an opportunity for public comment through: informal meeting(s), open house (not hearing); internet solicitation; advertising on WRCT; and/or, other means. A meeting or an open house does not need to be formal: the idea is to obtain meaningful public comment. The meeting or open house can be held during select civic group meetings, neighborhood meetings, before Council meetings, etc.
- Take notes during public meetings, and collect all public comments.
- Document all public comments, and provide a written municipal response to each comment for the file. Similar comments may be grouped together under one response. If the draft ordinance was modified to accommodate the public comment, indicate that this occurred and where it was incorporated. If the public comment was not incorporated into the draft ordinance, state the reason(s). This information is required to demonstrate compliance with the MS4 permit, and to protect the City of York in tort suits. It is also generally accepted practice to document public comments.
- While the information is not usually shared with the public, it is important to format the information so that it is acceptable for public viewing should it be requested. It can also be an attachment to the MS4 annual report to show public comment was obtained and evaluated.
- Ask the City Solicitor to review any language proposed from the public comment process, and incorporate any changes as appropriate.
- You are now ready to move onto the next step: City Council Approval Process.

2.2.3. City Council Approval Process

- Please note: legislation (i.e., an ordinance) presented to Council for consideration is called a bill. For ease of reading, this SOP will continue to refer to the ordinance as an ordinance, not a bill.
- The ordinance is now ready to go through the City Council approval process.
- Fill out a committee issues chart and email it, along with an electronic version of the final draft ordinance to the City Clerk, and request that the item be placed on the next Council committee agenda. Deadlines for committee submission are as follows: by 12:00 p.m. on the Wednesday business day prior to the next regularly committee meeting. (Current deadlines and the supplemental agenda process can be obtained from the City Clerk and the City of York website. Deadlines are set by resolution and are incorporated into the rules and procedures of the Council.)
- The City Clerk will include your item on the committee agenda for Council discussion. Committee meetings are normally held on the 4th Wednesday of each month (or as otherwise stated) at 6:00 p.m. in City Council Chambers. Staff representation is required at the committee meeting to discuss the ordinance and answer questions.
- If corrections are made to the ordinance during the committee meeting, make said corrections and forward the corrected ordinance back to the City Clerk for inclusion on Council's legislative agenda.
- Council will determine which legislative meeting the ordinance will be introduced, unless a specific meeting date is requested. Legislative meetings are normally held the 1st and 3rd Tuesday of each month (unless otherwise stated) at 7:00 p.m. in City Council Chambers. There is normally no discussion of the ordinance when it is introduced.
- Once introduced, the City Clerk will insert the appropriate bill number, introductory date, introducing Council member, and introductory text.
- Once the ordinance is introduced, the City Clerk will advertise the proposed ordinance in the legal ad section of the newspaper as required under Pennsylvania statute. This will meet the advertising requirement of the MS4 permit.
- The ordinance will be introduced by Council at one meeting and considered for final passage at the next City Council meeting (unless a different meeting date is requested).

- Obtain a copy of the legal advertisement and place it in the ordinance project file. A copy can be obtained by cutting the advertisement out of the publishing newspaper, or by requesting a copy of the City Clerk's Proof of Publication received from the publishing newspaper. An example Proof of Publication is located in Appendix B.
- At the next meeting, City Council will consider the ordinance for final passage. A City of York staff member will attend the Council meeting to answer any questions from the public or Council. Since the stormwater ordinance will most likely be generated from Public Works, the Public Works Director will probably attend the meeting to address questions. The Public Works Director may also have you attend to answer any detailed questions that may arise.
- At the meeting, the Council President will give the public an opportunity to comment on the proposed legislation.
- Document questions and comments presented by the public, and any responses.
- One of four courses of action will occur: Council will pass the ordinance; Council will fail the ordinance; Council will table the ordinance until questions/concerns are addressed; or, Council will refer the ordinance back to committee for further discussion.
- If the ordinance passes,
 - The City Clerk assigns an ordinance number, records the date the ordinance passed/failed, records the votes, then submits the approved ordinance to the Mayor for approval *via* signature (ordinances that fail do not require the Mayor's signature).
 - The Mayor has ten days after City Council submits the ordinance to either approve or disapprove (veto) the ordinance.
 - Once the Mayor signs the approved Ordinance, the City Clerk will email the signed ordinance back to whoever submitted the bill to show that it was approved. Place this in the project file for documentation.
 - The ordinance date of passage is the date Council passes finally the ordinance.
 - The ordinance effective date is 20 days after the Mayor signs the ordinance, unless a later date is stated in the ordinance itself. To determine the ordinance effective date, count 20 days starting on the day following the Mayor's signature. For example, an ordinance signed by the Mayor on May 6th would become effective on May 26th.
- If the ordinance fails,
 - The process must be started over again so an ordinance can be passed that meets the requirements of the MS4 permit: not meeting MS4 permit requirements is not an option.
- If the ordinance is referred to committee, contact the City Clerk for process and information.

3. File Documentation

- Fully document the project file regarding sources used to draft the ordinance, Solicitor comment, public comment, passage, etc. Proper documentation is used for audit compliance, to provide documentation against tort suits, and to show ordinance requirements were not crafted in an arbitrary or capricious manner.
- The following items should be included in the project file:
 - Reason for creating the ordinance or amendment
 - All sources used to generate or amend the ordinance
 - Iterations of the ordinance
 - Staff notes and comments
 - Solicitor comments
 - Public comments
 - o Minutes from the public meeting/open house
 - Any materials used at the open house/meeting (such as an agenda, work sheets, PowerPoint slides, etc.)

- Any documentation of advertising such as on the City of York website, WRCT, any fliers distributed, etc.
- Responses to public comments
- Ordinance as presented to Council
- Copy of the passed ordinance with mayoral signature and City Clerk attachment.
- Proof of Publication
- o Ordinance effective date (noted)
- While the permit requires that records of documentation related to MS4 program be kept for a minimum of three years, the permit itself has a five-year lifespan and the limitation for audit records review by EPA is generally five years. It is recommended that the information be retained for a minimum of five years.

4. Submit Documentation to the State

- MS4 Permit Appendix A, MCM#3, BMP5 requires the City of York to "submit documentation of completion" to the Pennsylvania Department of Environmental Protection (PADEP). MS4 Permit Appendix A, MCM#2, BMP2 requires public notice and opportunities for public review, input and feedback into the stormwater ordinance.
 - Generate an interoffice cover memorandum that includes the ordinance name, date of final passage (enactment), effective date, date of public notice, a statement that the ordinance meets MS4 permit requirements, and that the information must be submitted to PADEP with the MS4 annual report. Attach documentation required by the annual report: public comment documentation, proof of publication, and passed ordinance. Send to the Director of Public Works. Keep a copy of the memorandum for the file.

5. MS4 Ordinance Goals

The measurable goals for the MS4 ordinance are:

- Continue to maintain, update, implement and enforce a stormwater management ordinance that satisfies all applicable requirements of the MS4 permit.
- Enact any required ordinances or amendments as may be required to comply with Act 167 and regional state or federal requirements or county planning efforts.
- Advertise any proposed MS4 stormwater management ordinance, provide opportunities for public comment, evaluate any public input and feedback, and document the comments received and the City of York's response

Appendix A: Example Ordinance with Format, Strike-Through, and Bolded Highlighted Text

TITLE THREE - Public Sewers Art. 931. Sanitary Sewers Art. 932. Plumbing Requirements Art. 933. Sewer Rentals Art. 935. Storm Sewers

ARTICLE 931 Sanitary Sewers

- 931.01 Definitions
- 931.02 Prohibited wastes
- 931.03 Industrial wastes
- 931.04 Inspections Access to Premises, Right of Entry
- 931.05 Sewage, wastes and spilled matter not to be discharged into watercourses
- 931.06 Garages
- 931.07 Interceptors Required
- 931.08 Hotels and restaurants
- 931.09 Violations
- 931.10 Sewer rental surcharges; determination and measuring volume
- 931.11 Suspension and termination of service Remedies
- 931.12 Public Notice of Significant Violators
- 931.13 Public Access To Information
- 931.14 Hazardous Waste
- 931.15 Record Keeping
- 931.16 Administration 931.17 Appeals
- 931.18 Validity
- 931.99 Penalty

CROSS REFERENCES

Federal Water Pollution Control Act - (Clean Water Act); (as amended 33 U.S.C. 1251, et seq.)

Federal pretreatment regulations - 40 CFR chapter I, subchapter N

Sewer connections - see 3rd Class 3201 et seq. (53 P.S. 38201 et seq.)

City may charge tapping fee - see 3rd Class 3202 (53 P.S. 38202)

Power to furnish facilities outside City - see 3rd Class 3250 (53 P.S. 38250)

Sewage disposal standards - see 25 Pa. Code 73.1 et seq.

Waste water treatment - see 25 Pa. Code Ch. 95

Industrial wastes - see 25 Pa. Code Ch. 97

Industrial wastes charge - see S. U. & P.S. 933.04

New subdivision sewers - see P. & Z. 1397.07 1336.07

931.01 DEFINITIONS.

The following words and terms, when used in this article, shall have the following meanings, unless the context clearly indicates otherwise; <u>Definitions not found in this article may be found in 40 CFR</u> chapter I, subchapter N.

- (a) "Act" means Federal Water Pollution Control Act, also known as the Clean Water Act, as amended 33 U.S.C. 1251, et seq.
- (b) "Best Management Practice" or "BMPs" means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to implement the general and specific prohibitions listed in Section 931.02 and 40 CFR 403.5(a)(1) and (b). BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.
- (bc) "B.O.D. BOD (Biochemical oxygen demand)" means the quantity of oxygen utilized in the biochemical oxidation of organic matter under standard laboratory procedure in five (5) days at twenty degrees Centigrade Celsius, expressed in terms of weight and concentration (milligrams per liter (mg/L]).
- (ed) "Categorical Pretreatment Standards" or <u>"Categorical Standard"</u> means any regulation containing pollutant discharge limits set forth by the EPA <u>that apply to a specific category of</u> <u>Industrial Users and that appear in 40 CFR chapter 1, subchapter N.</u>

(e) "CFR" means Code of Federal Regulations.

- (df) "Commercial Wastes" means the wastes generated from a commercial operation as distinct from domestic, and industrial sewage.
- (eg) "Composite sample" means a combination of individual samples obtained at regular intervals over a specified time period not to exceed two hours the period of discharge. Whenever practicable, composite samples shall be proportionate to flow rate so as to be representative of the discharge during the period of sampling. When an industrial waste discharge is collected over a period of time and discharged as a daily basis or less frequent batch, a single sample from the batch shall be considered a composite sample for purposes of this Article.
- (f) "Daily average concentration" means the concentration as determined by a twenty-four hour composite sample. (Ord: 02-7.-Passed 2-20-02.)
- (9h) "Daily discharge" means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants expressed in other units of measurement (i.e., mg/l), <u>except for pH</u>, the "daily discharge" is calculated as the arithmetic average measurement of the pollutant <u>derived from all measurements taken that</u> over-the day <u>or by the measurement of a composite sample taken that day</u>. (Ord. 50-2003. Passed 12-16-03)
- (i) "Discharge" means "indirect discharge."
- (hj) "Domestic sewage" means the water-borne waste derived from ordinary living processes.
- (k) "Existing source" means any source of discharge that is not a "new source."

<u>harmful discharge and the measures taken to prevent any future occurrence, to the General Manager prior to the date of any show cause or termination hearing under 931.11(d) of this ordinance.</u>

- (b) <u>Revocation of Treatment Services.</u> The City <u>of York</u> may seek to terminate the wastewater treatment services to any person who fails to <u>and/or revoke a wastewater discharge permit</u>, <u>for good cause, for, but not limited to, the following reasons</u>:
 - Failure to Ffactually report the wastewater constituents and characteristics of its discharge;
 - (2) Failure to Rreport significant changes in operations or wastewater volume, constituents or characteristics prior to discharge as provided by §931.03(c) and §931.03(f)(2) of this Article;
 - (43) Violates the conditions of this article or any order entered with respect thereto Violation of this Article or any permit or order issued under this Article following within one year a prior violation of the same kind;
 - (4) Misrepresentation or failure to fully disclose all relevant facts in the wastewater discharge permit application;
 - (5) Falsifying self-monitoring reports and certification statements;
 - (6) Tampering with monitoring equipment;
 - (7) Being found to be in Significant Noncompliance, as defined in Section 931.12 of this Article;
 - (8) Failure to pay civil penalties assessed under this Article;
 - (9) Failure to pay sewer charges, surcharges or fees for services;
 - (10) Failure to meet compliance schedules;
 - (11) Failure to complete a wastewater survey or a wastewater discharge permit application as provided by §931.03(c) of this Article; or
 - (12) Failure to provide advance notice of the transfer of business ownership of a permitted facility.

Such person will be notified of the proposed termination of its discharge and be offered an opportunity to show cause under Section 931.11(d) of this ordinance why the proposed action should not be taken. Exercise of this option by the General Manager shall not be a bar to, or a prerequisite for, taking any other action against the person.

- (c) <u>Notification of Violation; Administrative Adjustment.</u> Whenever the City <u>of York</u> finds that any person has engaged in conduct which <u>that justifies termination of wastewater treatment services</u>, pursuant to subsection (b) hereof, <u>constitutes a violation of any provision of this Article or of a Permit issued hereunder</u>, the City <u>of York</u> may serve or cause to be served upon such person, a written notice either personally or by certified or registered mail, return receipt requested, stating the nature of the alleged violation. Within thirty <u>(30)</u> days of the date of receipt of the notice, the person shall respond personally or in writing to the City <u>of York</u>, advising of its position with respect to the allegations. Thereafter the parties shall meet to ascertain the veracity of the allegations and where necessary, establish a plan for the satisfactory correction thereof.
- (d) Show Cause Hearing. Where the violation which justifies termination of wastewater treatment service pursuant to subsection (b) hereof, is not corrected by timely compliance by means of administrative adjustment, the City may order any person to show cause before the City or its duly authorized representative, why the proposed service termination action should not be taken. Whenever a violation or series of violations occur that may result in suspension of service, termination of service, summary charges, or other enforcement action, the General Manager may issue an order to such violator to appear and show cause before a hearing board assembled for the purpose, why the proposed enforcement action should not be taken. The procedures for such a hearing shall be set forth in Section 931.17 hereof. -A written The notice of the hearing shall be served on the person either personally or by certified or registered mail, return receipt requested, specifying the time and place of a hearing

Appendix B: Example Proof of Publication Attach Copy of Advertisement here

NOTICE - YORK CITY COUNCIL

Council has introduced and will consider passage of the following Bills at a future meeting of Council:

Bill No. 31 - Amending Article 931 "Sanitary Sewers." Section 931.92(b)(6) "Prohibited Wastes," to modify the local limits.

Bill No. 32 - Accepting a dedication of land from the estate of Carroll Gernmill known as 1001 and 1003 S. Queen St., York City: authorizing the expense of acquiring the same; and providing for payment and/or waiver of associated costs.

Bill No. 33 - Amending Title 4 "Stormwater Management" of the Codified Ordinances to repeat current language and replace with a comprehensive Stormwater Management ordinance.

Bills may be examined in the City Clerk's Office, 1 Marketway West, 3rd FL. York, weekdays from 9am-4pm or call 649-2246 to review said Bill(s) and to inquire about proposed date(s) for adoption. Upon advertisement, adoption of legislation will take place at a Regular meeting of Councit, held in Council Chambers at 7pm on either the 1st or 3rd Tuesday of each month, at 1 Marketway West, 3rd Floor, York, PA, unless another location or time is advertised. Persons with disabilities may call 849-2883 if accommodations are needed to participate in Council proceedings. Persons with hearing impalrments may call the Deat Center at TDD 848-6765.

Proof of Publication State of Pennsylvania

AD # 0001171271-01

The York Dispatch/York Sunday News and York Daily Record

are the names of the daily newspaper(s) of general circulation published continuously for more than six months at its principal place of business, 1891 Loucks Road, York, PA 17408.

The printed copy of the advertisement hereto attached is a true copy, exactly as printed and published, of an advertisement printed in the regular issues of the said **The York Dispatch/York Sunday News and York Daily Record** published on the following dates, viz:

9/26/2011

COMMONWEALTH OF PENNSYLVANIA COUNTY OF YORK

Before me, a Notary Public, personally came

Linda Smith who being duly sworn deposes and says that she is the Layout Supervisor of The York Dispatch/York Sunday News and York Daily Record and her personal knowledge of the publication of the advertisement mentioned in the foregoing statement as to the time, place and character of publications are true, and that the affiant is not interested in the subject matter of the above mentioned advertisement.

Sworn and subscribed to before me, on this 26 day of September 2011

Anda Smith ion K. h Ion

Notary Public

COMMONWEALTH OF PENNSYLVANIA Notarial Seai Sharon K. Wentz, Notary Public West Manchester Twp., York County My Commission Expires March 1, 2013 Member, Pennsylvania Association of Notaries

The charge for the following publication of above mentioned advertisement and the expense of the affidavit.

Advertisement Cost	\$222.40
Affidavit Fee	5.00
Total Cost	\$227.40


MCM 3, BMP 5, #4

1/6/2017 A phone call was made to the General line for the Public Works Department from a city resident claiming that she has been smelling a Turpentine-like substance in her basement for the past few days. She stated her neighbor called the fire department and they came out to investigate but they didn't find anything in either 918 E Boundary or 916 E Boundary. MS4 Coordinator along with MIPP responded and spoke with the homeowner in 916 E Boundary. She allowed the workers in her basement where a faint smell was present, but it smelled most like a basement or "Earthy". MIPP representative suggested the homeowner hire a plumber to check the caps, and pipes in her basement to ensure the "traps" are in good working order. MS4 Coordinator and MIPP drove around the neighborhood looking for signs of any illicit dumping or discharge. Nothing was found. MS4 and MIPP did a quick inspection of Triangle Printing that was previously investigated in 2010 and 2012 for the same reason, a Turpentine-like smell. Nothing was found at this inspection, nor in 2010 or 2012. Their files were quickly reviewed and nothing was out of the ordinary. No evidence of illicit discharge was found.

1/10/2017 A phone call came into the Public Works line stating that this resident saw a "Valley Protein" truck "spilling grease everywhere" in "Pine Hill". Caller did not leave a name but a phone number was obtained. Called resident back and left a voicemail, trying to obtain more information on the whereabouts of the incident. No call back. Drove around Pine Hill Apartment complex and found nothing. The apartment community office was closed that day. Also rode down South and North Pine Street in case the caller was misunderstood. Nothing was found there either. No evidence of any grease on roadway.

1/13/2017 Albert from Highway Department called MS4 Coordinator stating that they were cleaning out a drain that has sewage leaking into it behind 263 W. Market Street. The drain looks like a storm drain but it does not lead anywhere but houses three sewer vent pipes that were backed up. Veronica and Albert went to speak with the owner of the building and told him he needed to get a plumber to come and fix the clog and reminded them not to through paper towels down the toilet. On their way back they noticed the vent caps near the dwelling were broken or missing. They returned to the front of the building to notify the owner that the plumber also need to replace the missing and broken caps on the pipes behind the building. A formal letter was sent with instructions and timeframe in which the work needed to be completed.

1/19/2017 James from Sewer Maintenance notified Veronica (MIPP) and Lettice (MS4 Coordinator) that there is a sewage leak at 401 N Queen street. He described a liquid coming out with pieces of toilet paper flowing across the pavement. Veronica and James spoke with the tenant who lived at the building and the lady said she would notify her landlord. Veronica and James said they would be back to check on the conditions tomorrow. The next day there wasn't any evidence of a leak still occurring.

1/20/2017 A resident of 916 E Boundary Avenue called in to report a Turpentine-like smell in her basement. She stated that it was very bad on Friday and has dissipated now. Veronica (MIPP) and Lettice (MS4 Coordinator) went out to speak with the resident and went into the basement. A slight odor could be smelled. Veronica and Lettice went down the block and took a tour through Triangle Printing to rule them out as a source of the odor. All of Triangle Printing's paperwork was up to par as were the operations. We notified the resident that we will try to coordinate with Spring Garden Twp to try to find the source of the odor. The source of the odor could not be identified and we asked the resident to call us back if it happened again.

1/24/2017 The resident at 916 E Boundary Avenue called in again to report the Turpentine-like smell coming from her basement. This time Veronica (MIPP), Sally (MIPP) and Lettice (MS4 Coordinator) went out to speak with the owner. We went into her basement and tried to locate a source. We then went back outside to pull up some manholes to try to find out where the odor is coming from. We pulled manholes at the following locations:

C27-10H – Berman and E Boundary – Smelled odor from sewer

C27-10I – E Boundary – Faint smell of odor

C27-10J – E Boundary – Spring Garden Twp

SG 207 and 206 – 206 curves from Wheatlyn to Boundary

C27-10K – Faint smell – Sampson Alley

*Source of smell could not be located.

1/24/2017 A public email came into the organization stating that York Concrete's washout basin has been overflowing and has a deep, sand-like material all over York Railways rails and property. The substance was an off white, soft sand like material. The reporter also stated that this has been reported previously. The reporter said yesterday's rainstorm made the pit overflow and clogged the drain down by E Princess Street and that the whole area is a mess. Sally (MIPP) and Lettice (MS4) responded to the scene to find a widespread area of mushy sand-like material. We followed the tracks taking photos of the mess. We then found the wash out basin in which the substance is coming from. We took photos of the over flowing washout basin, and the surrounding area that was covered with several inches of soft concrete. We took a sample of the substance as well. We reported back to Jim Gross and Chaz Green to see what the next steps were. We had a meeting with the owner of York Concrete and he said if the storm drain in the back corner of his property that butts up against Darrah's property wasn't blocked/clogged, this wouldn't happen. He stated that Darrah's has piled so much junk on top of the drain, he isn't even sure where it is and knows it has been this way for about 10-15 years or more. The owner says he is selling the property in the next few months and has no idea what the new owner will do with the property, but felt there was nothing he could do. In the next few days, Lettice followed up by making a stop out to see if she could find the drain and to check on the solutions that were made. She could not find the storm drain and confirmed that there is a large junk pile over top of where the storm drain may be. She also photographed the area that looked like to be turned over by some machine. The ground was disturbed and the material was now mixed in with the ground soil. Lettice reported back to Jim Gross that maybe Darrah's needs to clean that pile out to see if we could find the drain, however, Jim noted that the storm drain is probably privately owned if it is on their property and is not our issue. The owner of York Concrete was given a letter and York City's IDDE ordinances for reference.

1/25/2017 W Jackson Street on the bridge over Tyler run. A car plunged into the creek and drove a few yards and got stuck under the bridge the previous evening. Lettice (MS4) went out and checked Tyler

Run for any evidence of motor fluids leaked during the incident. Lettice walked under the bridge, and down street a little bit but could not find any evidence of any fluids leaking.

1/25/2017 Albert from Highway called again about 263 W Market street and another sewage leak in the drain that housed the three pipes in the storm drain "look-a-like". This time when they cleaned out the drain, there were a lot of paper towels in it which probably caused the leak. There were caps put on the pipes but one blew off due to the force of the clog. They again sucked out the contents of the drain and flushed the line with water. Albert says that he thinks Roto Rooter was here and tried to flush everything out but doesn't have a long enough pipe to reach back to the clog, so it clogged up again. The owner was again notified to get the clog taken care of. No further action occurred.

2/7/2017 A resident at 916 E Boundary called in to say the Turpentine-like smell was again in her basement. Sally (MIPP) and Lettice (MS4) responded and took a trip into her basement where the smell was very strong and almost overwhelming. Sally and Lettice looked and smelled around to try to find out where the odor was entering the home, but could not find a source. We then walked through the homeowner's back yard to ensure nothing was leaking in from out there or her garage. We then walked down the back alley and inspected some surrounding properties. There is a suspicious garage that is behind a fence that we focused on because it was directly behind her home and we did not have access to ensure nothing was leaking on that property. We did notice under a trailer, were two large drums that contained a hazardous-corrosive materials label on them. We walked down the side of the fenced off area until we reached the back. We kept walking and found an area that looked to be owned by the brick company and had mostly dead trees all around. Veronica then came out to meet us and we decided to walk across the street to the businesses to see if we saw anything that resembled paint thinner. There were some men at the car shop across the street but they did not know anything about the smell. One man pointed out they too had the smell a few years ago in their own basement of the shop, but the shop hasn't been used for a few years as the owner is too old to operate it now. They did mention that old or stale gasoline can also smell like paint thinner which poses a problem if the fumes were to ignite because of a spark. We continued to walk around and none of the business seem to have anything or use anything that resemble paint thinner. We went back to the office and Lettice found that the property that was fenced off that has the garage in it is owned by Triangle Printing and the previous owner was the redevelopment company. The resident was notified that if the smell came back, to call 911 and that the Fire Chief's are aware of the issue and will bring special equipment to test the air. Lettice also distributed multiple flyers and door hangers in that block to ensure another resident wasn't doing anything they shouldn't have. An email sent to Spring Garden Public Works asking for information was returned stating that they did have an issue a few years ago with a paint contractor washing out his paint stuff down the sink, toilet, or tub. But they couldn't remember which resident or which home.

2/14/2017 An email was received by the police department about an officer stopping a man in a truck the previous night dumping a liquid onto the grass and street near the intersection of W Church St and Oak Ln. The officer spoke with the man and he stated it is leftover water from transporting fish. The officer explained that he cannot do that and took down his information, including photos of the truck and his license, address, etc. The next day, Lettice (MS4) responded to the area and could immediately tell where the water was poured as the grass was pushed down and there was a slight "fishy" smell in the area. Lettice followed the path the water would have taken, down the alley, and into a few drains at the end of the alley, which ultimately drained into the Codorus Creek. Photos were taken and educational literature was left at 347 Oak Lane where the offender lives. He was given the information to call Springettsbury Wastewater Treatment Plant that may be able to take his leftover water. No further action was taken.

2/23/2017 James from Sewer Maintenance notified Veronica (MIPP) and Lettice (MS4) that there is a sewage leak coming from the side of 33 N Queen Street. He described a liquid coming out of an air pipe on the side of the building, running down the sidewalk into the street. He saw pieces of paper with the liquid. Veronica and Lettice responded to the property and took photos. Lettice and Veronica then went to the PPZ office and told them what we found and if someone could go out to let the owner know it needed to be abated immediately. They did send their only person available out to take care of it. An email was sent to Jim, Chaz, Steve Buffington, and Kelli Hill as well. They said they would take care of it. Unknown if abatement occurred. Did not reach a storm drain.

2/24/2017 A resident in the area called in to report that her neighbor poured or spilled oil all over the sidewalk beside her property. Lettice (MS4) responds to the rear of the home at 429 Walnut Street which is next to 440 Wallace Street. There was a motor oil odor and a pile of leaves and kitty litter over the spot where the spill occurred. PPZ responded and notified owner he had 24 hours to clean up the spill. Lettice took photos of the spill area. Chad Deardorff (Fire Chief) called around noon to also report the spill as the owner must have called the fire department to help him clean up the mess but the Firemen said they cannot do anything about it. Lettice then went out the next day and ensured everything was cleaned up. There was more Kitty litter spread around. The next morning Lettice went by again to ensure everything was cleaned up properly and the person who owned the stuff in the yard was moving a lot of the stuff out and told Lettice that he is not dealing with the owner anymore. He was also upset that the neighbor called on him because he told this neighbor that he was going to clean it up but he wasn't able to get to it for a day or two. He said the owner to sweep up the litter before the rainstorm forecasted for that evening so the litter and oil does not go down the nearest storm drain. He said he would. The spill was properly abated.

2/24/2017 Received an email from Cassie (Environmental) stating that they have been dealing with sediment runoff from 54 S Richland Ave. The email stated that PPZ have given them a cease and desist order to stop building a driveway that was not properly permitted. The residents have been parking their vehicles on the dirt driveway creating a mess and allowing sediment to run off into the storm drains. Lettice (MS4) responded and took photos of the lot, and of the holes of water at the base of the driveway and of the gutter containing sediment down to the storm drain. Literature was left for the residents and asked to give to their owner. An email was sent to PPZ, Jim (Director of Public Works) and Chaz (Deputy Director), for further enforcement measures. There was nothing I was able to do about it. The outfall did not contain any overages in sediment. The issue is ongoing.

3/2/2017 Albert from Highway called in an oil spill behind the address of 328 West North Street between Smyser St and W North St. He stated he saw oil on the roadway and followed the trail from Rte 30 to the source of the spill in the alley. He talked to the guy responsible and the man stated he did not know it was leaking. Albert also says that the oil has gotten into the storm drain at the end of the alley. Lettice (MS4) asked him if he had anything to put down immediately to stop the substance from flowing. He said he would put rags there. Lettice responded and there was a large slick of oil leading from the bed of his pickup truck which was parked halfway down the alley to the storm drain at the end of the alley near N Newberry Street and a slick leading up N Newberry and out of sight. Lettice tried calling Tom Landis (Highway Superintendent) but he did not answer, a message was left. Lettice then called Veronica (MIPP) to see what should do. She stated call the fire department. Lettice calls 911 and asks for the fire department to come out and help clean up the spill. Albert in the meantime goes back to the garage to get a bucket of sand to put down. The firemen responded and said they did not have enough for the whole spill and put what they had at the storm drain to stop it from flowing. Albert and a few other guys returned with a front end loader bucket full of sand and began to put the sand on the spill starting at the source and working their way up N Newberry St hill. Lettice then called Steven Buffington (Deputy Director PP&Z) to ask for help. He stated he would be right over. Steve came and went to speak with the man who owned the truck and got a photo of his license and explained that he needed to call his insurance company and get someone out to clean the rest of it up. Steve then called someone and let them know what was going on. It turns out the men were doing a job for the County and the man was part owner of the company Cool Masters. Lettice then called the DEP hotline and left a message as to what is going on. The DEP called back and I was able to further tell them what happened. The woman said she would give it to their Clean Water Team and they will get back to me. Steve and I went to the storm drains downstream and could smell some of the oil in two of the drains, but not further down by the railroad tracks. There were leaves about half full in the drain the oil went into and was able to soak up much of the oil. Steve went to check the outfall to ensure no oil had gotten that far, which it hadn't. Lettice meanwhile called Dave R (Electrical and Sewer Maintenance) and let him know that more sand may be needed because of the wind and cars blowing the and off of the oil on N Newberry Street. We also said that the drain needs to be vactored out. Dave then tells us that the one at Highway is broken until the next week when repairs could be made. Steve returned and called the person at the company again and told them to give him the insurance company information and he will tell them what's going on. Dave R comes and sees what's going on and said he would get guys out to clean everything up the next day if the company did not reach back out and said he would get more sand to put down on N Newberry. The next day Lettice goes to the scene and sees that the city street sweeper is getting up the sand from the alley. He says that he cannot get really close to the storm drain to get the sand because the drain sits down in the road. Lettice says ok and calls Dave R. He said he will have some guys with shovels pick it up. Lettice did not hear from the insurance company that day. Monday morning, Dave sent the highway guys out with the vactor truck and were cleaning out the drains. They were able to get all of the stuff out of the all the drains and said they will bill the company for everything since they did not have a plan in place to clean up the spill. A few days later Steve Buffington forwarded the official letter and bill for the cleanup. The DEP representative called the next week and asked for photos and the paperwork emailed to her, and Lettice did so. This spill was properly abated.

3/1/2017 Albert from Highway called Lettice (MS4 Coordinator) to notify her that someone put sand into the rain garden gully's on W Jackson Street near Manor St and S Pershing Avenue that has flooded over and has covered the entire drains during the last heavy rain we had. He said it is overflowing into intersections etc. Lettice responded and met Albert there. Once arrived could see the rain garden was covered with a fine mud covering the drains. Some of the drains were clogged. Photos were taken at Manor and W Jackson, S Pershing and W Jackson, and down on S Newberry St. I then stopped by City Hall to speak with Jim and Chaz about the issue but they were unavailable. Later that day I sent an email to Jim and Chaz notifying them of the situation. I also asked if they knew who put the sand in the rain gardens and why. Jim Gross responded that he was aware of the sand being put in with the idea of creating a base and then putting soil and native plants back in it. Unfortunately the flooding rain we had gotten was not taken into account. He said he is meeting with those helping out with the project but they have not yet come to a conclusion. Jim says he will try to keep me updated with the corrective actions.

3/6/2017 James from Sewer Maintenance called Veronica and stated that there was again sewage coming from the side of 33 N Queen Street. Lettice (MS4) sends an email to Buffington (Deputy Director PP&Z), Kelli Hill (Office Coordinator PP&Z), Jim (Director of Public Works), and Chaz (Deputy Director) about the repeated calls about this address and issue. Lettice responded to the scene and Sheldon from PPZ was there also taking photos. When he realized Lettice was there to investigate, he introduced himself and said that Buffington told him to just fine the property owner this time because the owner was told before to fix the problem but seems it has not. Sheldon then tells Lettice to check out the open basement door and take photos, he then leaves. Lettice walks around the side of the building where there is a bucket full of the wastewater sitting beside the vent. Further back the basement door was open and there were some tissue or paper towel particles on the wet floor. Lettice take photos of the basement, pipe, and ground. The sidewalk was covered with water along with the gutter. The sewage created slick conditions on the intersection of N Queen Street and E Philadelphia Street as cars were going through the water. The owner was fined and the sewage was eventually cleaned up.

3/7/2017 A call from the Fire department stated that there was a MVA at the corner of W Market and N/S Richland Avenue and some motor oil has leaked into the storm drain. Lettice (MS4) responds later in the morning and finds sand overtop the leaked oil on the sidewalk and the street. Looks like the car/cars were up on the sidewalk and had hit the telephone pole. The car was sitting right on top of the storm drain where the oil had leaked. Dave had the guys go out and vactor the drain and clean up the sand. Lettice then goes down to HM1 outfall to check for sheen. There was a definite oil sheen on the pool of water between the outfall and the Codorus Creek. Lettice takes photos and goes back to the office. Lettice goes to get one. Lettice then puts the boom into the water and anchors it. That afternoon Lettice goes back to check on it and it looks like the water has cleared up. The forecast was expecting heavy rain over night so Lettice collected the boom and takes it away. Lettice again photographs the area and the pool of water is now clear. This discharge was properly abated.

3/13/2017 Albert from Highway calls Lettice and notifies her that the drain behind 263 W Market Street has clogged and overflowed again. So much that the alley and intersection is a sheet of ice. He says he is going to get some cinder to put down so cars won't slip around. Lettice (MS4) responds and photographs the area. There is a large pool of water and ice at the storm drain where the water from the clogged drain is running to. Lettice calls Dave R (Electrical and Sewer Maintenance), Tom Landis (Highway Super) and Steve Buffington (Deputy Director PP&Z) but they all did not answer. Dave R texts Lettice and says they are all in a snow meeting before the snowstorm predicted for that night. Lettice explains to Dave what's going on and he said he will be there after the meeting. Albert comes back with a cinder truck and lays anti-skid around the area. Dave suggests Lettice calls Carol Godfrey to dispatch a vactor truck to clean out the drain. Lettice calls Carol and she says she will send someone out. Dave then comes and says that the owner needs to fill in this drain and make the sewer pipe go directly into the street sewer pipe then we wouldn't have this problem, and cap off the pipes permanently. The guys with the truck comes out and vactors it out. Lettice goes back to the office and sends an email to Steve Buffington and Kelli Hill that whoever goes out needs to enforce the idea that the drain altogether needs

to be filled in and another pipe laid. The spill was abated but will happen again if the owner does not change the situation with the pipes permanently.

3/21/2017 Received a call from Dave R who received a call from Jason at YESCO, stating there is a substance coming out of a black outfall near his property. Lettice (MS4 Coordinator) responds and enters YESCO to find out where the spill is. Jason points her to across the street in the ditch beside the road. Lettice then goes to find a large spill area with a blue/green substance that looked like dried paint on the ground and all over the weeds, grass, and shrubs. Lettice tried to find the source but was unsuccessful at the time. Using rubber gloves, she picked up some of the substance and found it to be very grainy with rainbow color granules. It had no odor. I walked across the street and found some of these granules in York City's outfall WR37. I walked back to find an overgrown private outfall where the substance most likely discharged from. This is plastic outfall that runs underground towards Protech. I called Veronica C (MIPP) but was unable to reach her. I then called Jim Gross (Director of Public Works) and explained the situation. Told him the outfall is not ours and the spill is on private property. He said to call DEP. I called the DEP Emergency Line and gave them the information. They asked if I had spoken to anyone at the company yet, I said I had not but planned on it. He told me if I had any other information to call them back. I spoke with Brittany and Joe from the company and they told me the substance is Thermal Plastic that they use there at the company. Joe says it most likely got there by the melting snow. He said he will get a couple of the guys to clean it up. I said ok and left. I updated the DEP on what the substance was and told them the company said they will clean it up. DEP rep says they are in contact with the York office and hopefully someone will go out today. *Update* March 31 2017, DEP sent Lettice their Inspection Report noting the violations and the recommendations.

3/23/2017 Received an Earth Disturbance Report from YCCD stating that the vacant lot at 502-512 Walnut street has uncovered dirt that are not adequately stabilized, filter socks that are in need of repair or replacement and has not developed and submitted an Erosion and Sediment Control Plan. Information was forwarded to PPZ.

3/24/2017 Received a call from Dave R about a sewage leak at 553 W Clarke Avenue. Crew checked main and it was fine. Neighbor says that he has been trying to get a hold of the landlord all day but could not. Gave landlord name as Darren with Target Investment Properties....called and left him two messages. Called Steve B (PPZ) and left a message. Called the Target office and left a message. Saturday did not hear anything. Sunday returned to home and the leak was worse. Called Darren and left another message. Called Steve B (PPZ) and left another message. Called the office and stopped by but they were closed and no emergency number listed. Took photos both days and sent an email to Jim, Chaz, PPZ staff with photos and about all that transpired Monday morning. Steve wrote back and stated he had been trying to call Darren as well to no avail and if Steve could not reach Darren this morning he would shut off the water and cite him. He also asked if any of the sewage had gotten into the storm drain, and I said I was not aware but with the overnight rain, it's a possibility. When Sally and Lettice arrived at the office, Lettice asked to speak with Darren. Darren came and said he had spoken to Buffington that morning and he is working on the issue. Lettice then asked if there is an emergency number to call in case this happens again, and he said the numbers I have are correct but he was just in an area where he could not get service. Lettice and Sally then went by the location and saw a plumber was there taking care of it. Lettice snapped another photo and ensured the sewage did not get into the storm drain, which it looks like it has not.

3/24/2017 Veronica received a call from someone at the SUSCOM building on W Phila Street about a rainbow sheen coming out of CC48. Veronica calls Lettice and meets her at the scene. Lettice arrives and takes a few photos of the rainbow sheen coming out of the outfall into the Codorus. Veronica comes and we walk down for a closer look. Veronica takes a sample of the outfall water and labels it appropriately. We then back track to Roosevelt Ave and Park street and pull a manhole. Veronica fishes out two large socks, unties one and puts a new one on. She then puts them back into the manhole and ensures they are laying perpendicular to the water flow to catch the substance. We then headed back to the office to gather more supplies and a large sock. We return to CC48 and put two socks across the outfall and shored them up with rocks. Lettice returns Sunday to check on the outfall. The booms are still in place but the substance is still flowing out of the outfall. Lettice tells Veronica that she thinks we should leave the boom until Monday and check it then. Monday morning Sally and Lettice find that the boom had been broken off but still attached to one side. We see that there isn't any more stuff coming out of CC48 so we collect the booms and leave. Lettice will check back in the afternoon.

MCM #4 Appendix

- MCM #4 Project Plan
- BMP 4.1 Attachments
 - Memorandum of Understanding with York County Conservation DIstrict
 - YCCD Inspections
 - Apple Retail-Proposed Restaurants Inspection

MCM #4 Project Plan

• BMP 4.1

Description:

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

Measurable Goal:

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

Action Plan:

The City 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 Activates to satisfy all requirements under this Minimum Control Measure.

The City has executed a Memorandum of Understanding (MOU) with the York County Conservation District to define the roles and responsibilities involved with the program. The Conservation District performs regular inspections of all active construction sites located within the MS4 regulated area and forwards a copy of all inspection records and violation notices to the City. A record of all correspondence with the Conservation District is kept by the City to document the District's activities.

The City 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 City will suspend the issuance of any building permits until site deficiencies or violations are considered resolved by the District.

• BMP 4.2

Description:

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

Measurable Goal:

Within the first year of coverage under the permit, new permittees shall enact and implement an ordinance that meets all applicable requirements of this permit. (Non-municipal permittees shall develop and implement an SOP).Permittees shall submit a letter signed by a municipal official, municipal engineer or the municipal solicitor as an attachment to their first periodic report certifying the enactment and implementation of a stormwater management ordinance that meets all requirements of this permit.

Action Plan:

The City 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 Activates to satisfy all requirements under this Minimum Control Measure.

The City has executed a Memorandum of Understanding (MOU) with the York County Conservation District to define the roles and responsibilities involved with the program. The Conservation District performs regular inspections of all active construction sites located within the MS4 regulated area and forwards a copy of all inspection records and violation notices to the City. A record of all correspondence with the Conservation District is kept by the City to document the District's activities.

The City 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 City will suspend the issuance of any building permits until site deficiencies or violations are considered resolved by the District.

• BMP 4.3

Description:

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

Measurable Goal:

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

Action Plan:

The City 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 Activates to satisfy all requirements under this Minimum Control Measure.

The City has executed a Memorandum of Understanding (MOU) with the York County Conservation District to define the roles and responsibilities involved with the program. The Conservation District performs regular inspections of all active construction sites located within the MS4 regulated area and forwards a copy of all inspection records and violation notices to the City. A record of all correspondence with the Conservation District is kept by the City to document the District's activities.

The City 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 City will suspend the issuance of any building permits until site deficiencies or violations are considered resolved by the District.

BMP 4.4

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

Measurable Goal:

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

Action Plan:

The City 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 Activates to satisfy all requirements under this Minimum Control Measure.

The City has executed a Memorandum of Understanding (MOU) with the York County Conservation District to define the roles and responsibilities involved with the program. The Conservation District performs regular inspections of all active construction sites located within the MS4 regulated area and forwards a copy of all inspection records and violation notices to the City. A record of all correspondence with the Conservation District is kept by the City to document the District's activities.

The City 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 City will suspend the issuance of any building permits until site deficiencies or violations are considered resolved by the District.



April 8, 2011

City of York Attn: James E. Gross, Director of Public Works P.O. Box 509 York, PA 17405

RE: Memorandum of Understanding

Dear Mr. Gross:

On April 7, 2011 the York County Conservation District Board of Directors voted to accept the Memorandum of Understanding (MOU). Enclosed is your copy of the signed MOU. If you have any questions please feel free to contact me at phone number 717-840-7430.

Thank you for your on-going cooperation in protecting our natural resources!

Yours in Conservation,

Eric P. Jordan Resource Conservationist

Enclosure - MOU



MEMORANDUM OF UNDERSTANDING (MOU) Between the YORK COUNTY CONSERVATION DISTRICT and CITY OF YORK

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 City of York.

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 City of York for the benefit of the City'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 City of York in meeting it's 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 City of York's Post-Construction Stormwater Management Ordinance # 936 and Subdivision and Land Development Ordinance # 1331.

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 City of York's (City) engineer to all scheduled NPDES pre-application meetings. Attendance will be at the City 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.
- Complete a technical review of all E&S plans proposing 5,000 square feet to 0.99 acres of earth disturbance when required by City ordinance. The technical review will be completed within 50 calendar days of receiving a complete plan submission.

- 4) Conduct all technical E&S plan reviews in accordance with the District's delegation agreement with PA Department of Environmental Protection (DEP), current Chapter 102 regulations, and the most current PA DEP Erosion and Sediment Pollution Control Program Manual.
- 5) Provide the City with courtesy copies of all administrative and technical plan review deficiency letters, E&S plan approval letters, and copies of the stamped approved E&S plans and final PCSM plans. Deficiency letters will be forwarded via email to the City.
- 6) Provide the City with an adequate supply of the District's "Guide to Developing an Effective Erosion and Sediment Control Plan for Single Lot Projects."
- 7) Maintain an E&S Control webpage on the District's website (<u>www.yorkccd.org</u>) with all current E&S plan review and NPDES applications, District services fee schedule, useful links, and other information to assist applicants and plan preparers in preparing quality E&S & PCSM plans.
- Conduct periodic educational workshops regarding erosion and sediment control and post construction stormwater management and invite representatives of the City to attend.
- 9) Withhold issuance of a NPDES permit or major modification(s) to an existing NPDES permit until the City's 30-day comment period has expired In accordance with Acts 67, 68, & 127 which amended the Municipalities Planning Code.
- Conduct an administrative review of all PCSM plans requiring a NPDES permit within 20 calendar days of receipt of the plans. Any obvious technical/conceptual deficiencies will be brought to the City engineer's attention.
- 11) Request and receive a PCSM plan consistency/approval letter signed by the City engineer for all NPDES permit applicants prior to issuing any <u>general</u> NPDES permits to ensure that the PCSM plan approved by the City is the same as the PCSM plan submitted for the NPDES permit issued by the District.
- Notify the City of revisions to any PCSM plans submitted to the District after issuance of the NPDES permit.

B. Preconstruction Meetings, Complaint Investigations, & Site Inspections

- Request that the developer and/or contractor invite the City engineer, codes enforcement officer, or other City representative to the preconstruction meeting for all NPDESpermitted sites. Email the City engineer and/or codes enforcement officer informing him/her of all scheduled pre-construction meetings.
- Investigate all erosion and sediment control (E&S) and stormwater-related complaints within 10 calendar days of receipt. Conduct periodic E&S follow-up inspections until violations have been corrected.
- 3) Refer all storm-water related complaints to the City to determine compliance with the City's stormwater management ordinance and/or MS-4 permit. Refer any stormwater complaints regarding post construction stormwater management (PCSM) BMPs required by the NPDES permit to the Region DEP office and copy the City on any correspondence.
- Refer all complaints involving waterway obstruction and encroachments (potential Chapter 105 violations) to DEP's Southcentral Region Office for resolution. (The District is not delegated to administer DEP's Chapter 105 program.)

- Provide the City with a copy of all inspection reports and site meeting correspondence within 14 calendar days of the date of inspection or site meeting. Correspondence will be forwarded via email.
- 6) Provide the City with a copy of all NPDES copermittee/transferee acknowledgement letters.
- Serve as a repository for all plans, complaints, inspection reports, correspondence, etc. that involve earth disturbance activities.
- 8) Conduct routine and follow-up compliance inspections of all NPDES-permitted sites striving to obtain voluntary compliance. Conduct at least one annual inspection of each NPDES-permitted site. Additional inspections will be conducted for priority sites as needed to ensure compliance with Chapter 102. Compliance will be based on conformance with the District-approved E&S plans and the minimum design criteria set forth by the most current PA DEP Erosion and Sediment Control Program Manual. Inspections will be documented on a DEP earth disturbance inspection report form
- 9) Focus on compliance with the E&S plans during inspections however the District will also document any obvious (visual) violations/deficiencies with implementation of the PCSM plans and will bring to the attention of the City and DEP Southcentral Region office.
- 10)

Initiate enforcement action in accordance with District and PA DEP compliance assistance and enforcement guidelines for sites where voluntary compliance with Chapter 102 regulations cannot be obtained.

- Contact the City engineer and/or codes enforcement officer to verify compliance with the PCSM plan prior to acknowledging any Notice of Terminations (NOT) for NPDES-permitted site.
- 12) Review the City's Stormwater Management or Subdivision and Land Development Ordinance, at the City's request, to determine consistency with current Chapter 102 regulations.

II. In carrying out the intent of this memorandum, City of York will:

- Remind all citizens, builders, contractors, developers, and farmers that earth disturbance activities including clearing and grubbing of vegetation and construction of agricultural buildings, require implementation of erosion and sediment (E&S) control Best Management Practices (BMPs) and may require a written E&S plan. Refer them to the District for further guidance.
- 2) Provide the District's "Guide to Developing an Effective Erosion and Sediment Control Plan for Single Lot Projects", to building/grading permit applicants for projects proposing 5,000 square feet to 0.99 acres of earth disturbance. The guide is intended for low-hazard scattered single family residential lot construction and other small grading projects on non-NPDES permitted projects. It may not be used for commercial or industrial projects.
- 3) Withhold issuance of building and/or grading permit(s) for projects proposing 5,000 square feet to 0.99 acres of earth disturbance until the E&S plan has received District review and approval when such review and approval is required by City ordinance. Notify the applicant (at the earliest possible date) that the District has up to 50 calendar days to review the E&S plans.
- 4) Will notify building permit applicants of the requirement to have an E&S plan reviewed and approved by the District. A District-approved E&S plan will be a required item on the City's building permit application checklist.

- 5) Update the City's Stormwater Management Ordinance, Subdivision and Land Development Ordinance (or) adopt an E&S ordinance requiring District review and approval of <u>all</u> projects proposing 1 acre or more of earth disturbance (over the life of the project) so that the District can determine if an NPDES permit is required. Phased project(s) initially proposing less than 1 acre of earth disturbance but which is part or portion of a larger common plan of development which will disturb 1 or more acres may also require an NPDES permit.
- 6) Encourage applicants to meet with the District and City engineer at the earliest possible date to discuss preliminary concept plans thereby avoiding costly delays and revisions due to plan designs that may meet City requirements but fail to meet DEP requirements.
- Notify the District within 10 calendar days of any PCSM plan revisions submitted to the City after the District has issued the NPDES permit.
- 8) Conduct an engineering review and approval of all PCSM plans required by a NPDES permit to ensure that DEP water quality requirements are met and require any revisions to the PCSM plans be resubmitted to the District.
- Invite District to any scheduled preconstruction meetings and/or scheduled inspections especially prior to City adoption of the streets.
- 10) Will conduct during-construction and post-construction inspections to ensure compliance with implementation and long-term operation and maintenance of the PCSM BMPs in accordance with the PCSM plans.
- 11) Withhold:

 issuance of any building or other permit or final land development plan approval to persons proposing or conducting earth disturbance activities requiring a NPDES permit until the District has approved coverage under the general NPDES Permit for Stormwater Discharges Associated With Construction Activities (as required by Chapter 102,43).

issuance of any building or other permit to any building permit applicant until the City has
received a District copermittee acknowledgement letter from the building permit applicant
(typically the builder) for any lot construction on NPDES-permitted sites (as required by Chapter
102.43). A District copermittee acknowledgement letter will be a required item on the City's
building permit application checklist.

• the issuance of any grading, building, or other permits upon District request, when a responsible party continually fails to voluntarily comply with Chapter 102 regulations as documented on two or more DEP earth disturbance inspection report forms.

- 12) Forward all third party complaints to the District regarding earth disturbance activities causing sediment pollution to Waters of the Commonwealth or presenting a significant potential for sediment pollution. Inform the District of any earth disturbance projects that have commenced without receiving E&S plan and/or NPDES permit approval.
- 13) Take the lead on all stormwater complaints (that do not involve earth disturbance activities) and, where applicable, work with the District to bring resolution.
- 14) Voluntarily comply with Chapter 102/NPDES requirements for all City earth disturbance activities.
- 15) Provide the District with copies of all current E&S/PCSM/SALDO ordinances upon District request to ensure consistent application of requirements and avoid duplication of effort.

16) Provide enforcement support when the permittee(s) has failed to voluntarily comply with the approved PCSM plans.

III. This Memorandum of Understanding shall become effective immediately. It shall be reviewed periodically, as the need arises by either or both parties, and may be amended by mutual consent of both parties. This MOU may be terminated at any time, by either party, following a 30 day written notice to the other party.

FOR THE GITY OF YORK MAYOR

FOR THE YORK COUNTY CONSERVATION DISTRICT

CHAIRMAN, BOARD OF DIRECTORS

4-7-11 DATE



Conserving Natural Resources for Our Future

March 23, 2017

Walker Construction Willie Walker 112 Maple Street York PA 17401

Via First Class Mail/Electronic Mailing

RE: Earth Disturbance Inspection for 502-512 Walnut St. Demo Project File # 021-16 City of York York County

Dear Mr. Walker:

On 3/22/2017 a representative of the York County Conservation District conducted an inspection of earth disturbance activities at the 502-512 Walnut St. Demo Project site. Please refer to the enclosed inspection report as guidance to obtain voluntary compliance with the Chapter 102 Erosion and Sediment (E&S) Control Rules and Regulations.

The York County Conservation District, by delegation agreement with the Pennsylvania Department of Environmental Protection (DEP), is authorized to investigate complaints and inspect earth disturbance activities to determine compliance with the Commonwealth's Clean Streams Law and Chapter 102, E&S Control Rules and Regulations.

The enclosed inspection report identifies the site conditions at 502-512 Walnut St. Demo Project as of 3/22/2017. The inspection report reveals that earth disturbance activities are being conducted in a manner that are in continued violation of the Pennsylvania's The Clean Streams Law, the Act of June 22, 1937, P. L. 1987 as amended, 35 P.S. S691.1 et esq., and Chapter 102, Erosion Control Rules and Regulations.

The Conservation District requests that the E&S plan for the above referenced site be submitted to the Conservation District by 4/4/2017. *Please note that failure to submit a copy of the E&S plan as requested is a violation of 25 Pa. Code 102.4.*

The Conservation District's primary mission is to educate and assist the public in making the best choices in conserving and protecting our natural resources. *In so doing the Conservation District prefers to resolve this matter through voluntary means.* Please contact the District in reference to the corrective measures you plan to take or have already taken and the expected timeframes for completion.





April 5, 2016 Inspection of General Services for City Of York



Project No. 0407.1.00.00		CI 04	ient No. 07		
Project Manager Jeffrey S. Shue		In De	spector erek J Rinalo	do	
Temperature 26 to 44 °F		W Cle	/eather Co ear	onditions	
		Non-			
Contractor		Manual	Manual	Remarks	
Walker Construction	Prime				
Inspection Time Log					
	Arrival		Depa	rture	
-	11:00 AM		11:30	MAC	
	12:00 PM		12:3	0 PM	

CONSTRUCTION ACTIVITIES

Description and Progress of Job

Met onsite with Steve Buffington and the contractor to inspect E&S Controls and determine if site was restored properly. We noted that the silt fence installed along Walnut St. was not trenched in, allowing sediment to escape the site under the fence. Additionally, no E&S measures are installed along the rear of the property.

To determine if adequate fill material was utilized for this site, we asked the contractor to dig a trench to view the material. Upon excavation, it was obvious that the contractor utilized unsuitable material with a large amount of organic building materials, such as lumber from the demolished homes. Steve and I agreed that the site will need to be excavated once again with all unsuitable material removed from the site.

Materials Delivered

QA/QC Procedures N/A Materials Used N/A

Testing N/A

Equipment on Site

Quantity Description

1 Backhoe

Photo No. 1 IMG_3280.JPG





ATTACHMENTS

None

Edited by Derek J Rinaldo on 04/06/2016



The City of York Pennsylvania

101 S. George Street & PO Box 509 & York PA 17405 www.yorkcity.org

Honorable C. Kim Bracey, Mayor

Steven R. Buffington, BCO Deputy Director of Permits, Planning and Zoning

Walker Construction Company Attention: Willie Walker 112 W Maple Street York, Pennsylvania 17401

April 6, 2016

Dear Mr. Walker,

Yesterday, April 5, 2016 I along with Derek Rinaldo, PE met you at the job site located in the 500 block of Walnut Street. Specifically the following addresses were inspected:

- 502 Walnut Street
- 504 Walnut Street
- 506 Walnut Street
- 508 Walnut Street
- 510 Walnut Street
- 512 Walnut Street

We visited the property because of a complaint that there were not erosion and sediment control measures on site and that erosion and sediment were escaping the site. We found this to be a valid complaint. Article 942.02(a) prohibits the discharge of erosion and sediment into the storm water sewer system. Your failure to install appropriate measures to prevent such erosion and sediment from escaping the job site has resulted in erosion and sediment entering the storm water sewer system.

Upon being informed of the violation on April 5, 2016, you immediately took steps to correctly install control measures. This order formally advises you that <u>you must take appropriate</u> <u>measures to prevent all erosion and sediment from escaping the job site and to maintain such</u> <u>measures until the lot is appropriately stabilized</u>. It is recommended that you make regular checks of the site to ensure that the control measures remain in place.

Thank you for your cooperation in this matter. As the contractor you are responsible for understanding and complying with all of the requirements of Article 942 of the Codified Ordinances of the City of York, Pennsylvania. Failure to comply with this order will result in the filing of criminal charges as provided for in Article 942.17 that will result in a fine of \$1,000 per day and/or imprisonment up to 90-days. In addition to the above, you should be aware that it is the intent of the City of York to recover all costs of enforcement on this project as provided for in Article 942.18. You will receive an itemized bill for these costs in the very near future.

Sincerely,

Steven R. Buffington, BCO

Copy: Veronica Chavez Jason Sabol, Esquire James Gross, Director of Public Works Derek Rinaldo C. Kim Bracey, Mayor



Conserving Natural Resources for Our Future

July 5, 2016

Walker Construction Willie Walker 112 Maple Street York PA 17401

Via First Class Mail/Electronic Mailing

RE: Earth Disturbance Inspection for 502-512 Walnut St. Demo Project File # 021-16 City of York York County

Dear Mr. Walker:

On 6/27/2016 a representative of the York County Conservation District conducted an inspection of earth disturbance activities at the 502-512 Walnut St. Demo Project site. Please refer to the enclosed inspection report as guidance to obtain voluntary compliance with the Chapter 102 Erosion and Sediment (E&S) Control Rules and Regulations.

The York County Conservation District, by delegation agreement with the Pennsylvania Department of Environmental Protection (DEP), is authorized to investigate complaints and inspect earth disturbance activities to determine compliance with the Commonwealth's Clean Streams Law and Chapter 102, E&S Control Rules and Regulations.

The enclosed inspection report identifies the site conditions at 502-512 Walnut St. Demo Project as of 3/15/2016. The inspection report reveals that earth disturbance activities are being conducted in a manner that is contrary to the approved erosion and sediment control plan and are in continued violation of the Pennsylvania's The Clean Streams Law, the Act of June 22, 1937, P. L. 1987 as amended, 35 P.S. S691.1 et esq., and Chapter 102, Erosion Control Rules and Regulations.

The Conservation District requests that the E&S plan for the above referenced site be submitted to the Conservation District by 7/14/2016. *Please note that failure to submit a copy of the E&S plan as requested is a violation of 25 Pa. Code 102.4.*

The Conservation District's primary mission is to educate and assist the public in making the best choices in conserving and protecting our natural resources. *In so doing the Conservation District prefers to resolve this matter through voluntary means.* Please contact the District in reference to the corrective measures you plan to take or have already taken and the expected timeframes for completion.

Please be advised the Conservation District and/or representatives of the Department will be conducting future inspections at the site.

Your cooperation in resolving this matter is greatly appreciated. If you should have any questions, please feel free to contact me at ph. # 717-840-7430.

Sincerely,

Robert Fetter Resource Conservationist

Enclosure- Inspection report cc: City of York

File



118 Pleasant Acres Road • York, PA 17402-8984 • Tel (717) 840-7430 • Fax (717) 755-0301 • www.yorkccd.org

3150-FM-BWEW0092 Rev. 10/2015

DEPARTMENT OF ENVIRONMENTAL PROTECTION COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATERWAYS ENGINEERING AND WETLANDS

Permit	No.	
Report	No.	2

EARTH DISTURBANCE INSPECTION REPORT

Project Name 502-512 Walnut St. Demo Project Inspecti	on Date <u>6/27/16</u> Inspection Time <u>12:30 – 12:45 pm</u>
Weather Conditions Sunny, 70°	Total Project Area ~ 8,100 sq. ft.
Location Off of Walnut St. near intersection with Austin Ave.	Total Disturbed Area <u>8,100 sq. ft.</u>
Municipality City of York	County York
Receiving Water(s) Codorus Creek	Designated/Existing Use WWF
Responsible Party(s) Walker Construction – Willie Walker (name & address) 112 Maple St. York, PA 17401	
Site Representative (name) <u>No one on site.</u> (title)	Inspector (name) <u>Robert Fetter</u> (title) <u>Resource Conservationist – Network Admin.</u>
Type of Inspection Routine complete Routine partial Follow-up	Photographs Taken Yes 🛛 No 🗌 Complaint 🗌 Final 🗍
 Site Description & Observations: 1) Follow-up to 3/15/16 insp 2) Disturbed areas appear to have been seeded, but not mulch 3) Silt fence installed but not maintained. 4) Erosion and sediment control plan not submitted to York Could areas appear to the second sediment control plan not submitted to York Could areas appear to the second sediment control plan not submitted to York Could areas appear to the second sediment control plan not submitted to York Could areas appear to the second s	ed and not adequately stabilized. (t,w). (e,w) Inty Conservation District as requested. (c)

Continued on page 3 of

		Permit and Plan Requirements	Тур	e of Activity (check as many	y as a	appropriate)
Y	Ν					Other
		Written Erosion & Sediment Plan required		Pub. Road Constr./Maint. (PRC)	\times	Pvt. Road/Residence (PRRS)
	\boxtimes	Written Post Construction Stormwater Management Plan required		Res. Subdivision (RSBD)		Comm./Indust. Dev. (CMIN)
\boxtimes		Erosion & Sediment Plan requested		Govmt. Facilities (GOV)		Recreation Facilities (RECF)
	\boxtimes	Post Construction Stormwater Management Plan requested		Utilities Facilities (UTL)		Agricul. Activities (AGA)
	\boxtimes	E & S Permit required 🛛 ESCGP Permit required		Sewer/Water Systems (SWS)		Pipellne (PL)
	\boxtimes	NPDES Pennit required		Remediation/Restoration (RRES)		Silviculture (SILV)
		Phased Constr. Non-Phased Constr.				
Peri	mit #:	Exp. Date:				

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATERWAYS ENGINEERING AND WETLANDS

Permit No. _____

Report No. 2

EARTH DISTURBANCE INSPECTION REPORT

Project Name 502-512 Walnut St. Demo Project Inspection Date 6/27/16 Inspection Time 12:30 - 12:45 pm

Inspe	ction Findings	Reference
	No violations observed at this time.	□ (N/A)
	a. Failure to develop a written Erosion and Sediment (E&S) Plan.	(102.4)
4	b. Failure to have an E&S Plan available onsite.	(102.4)
	c. Failure to submit an E&S Plan as requested.	⊠ (102.4)
	d. Failure to implement effective E&S Best Management Practices (BMPs).	(102.4)
	e. Failure to maintain effective E&S BMPs.	⊠ (102.4)
	 Failure to use Antidegradation Best Available Combination of Technologies (ABACT) BMPs for discharges to High Quality or Exceptional Value Waters. 	(102.4)
	g. Fallure to obtain an NPDES Permit for Stormwater Discharges Associated with Construction Activities.	(102.5)
	h. Failure to obtain an E&S Permit.	(102.5)
	i. Failure to prepare and implement a Preparedness, Prevention, and Contingency (PPC) Plan.	(102.5)
	j. Failure to submit a Notice of Termination (NOT).	(102.7)
	k. Failure to develop a written Post Construction Stormwater Management (PCSM) Plan/Restoration Plan.	(102.8)
ł	I. Failure to have PCSM Plan/Restoration Plan available onsite.	102.8)
il.	m. Failure to submit PCSM Plan/Restoration Plan as requested.	(102.8)
	n. Failure to implement effective PCSM BMPs.	(102.8)
	o. Fallure to maintain effective PCSM BMPs.	(102.8)
	p. Failure to perform reporting and recordkeeping as required.	(102.8)
	q. Fallure to implement riparian buffer or riparian forest buffer.	(102.14)
i.	r. Failure to meet regulatory requirements for riparlan forest buffer.	(102.14)
1	s. Failure to provide temporary stabilization of the earth disturbance site.	(102.22)
	t. Failure to provide permanent stabilization of the earth disturbance site.	🛛 (102.22)
	u. Failure to comply with permit conditions.	🔲 (402 CSL)
	v. Sediment or other pollutant was discharged into waters of the Commonwealth.	(401 CSL)
	w. Site conditions present a potential for pollution to waters of the Commonwealth.	🛛 (402 CSL)
	x. Failure to comply with a Department Order.	[] (402, 611 CSL)
ġ	y. Failure to comply with PCSM long-term operation and maintenance requirements.	(102.8)
	z. Fallure to conduct a preconstruction meeting.	(102.5)
	aa. Failure to provide proof of consultation with the Pennsylvania Natural Heritage Program regarding the presence of a State or Federal threatened or endangered species on a project site requiring a Chapter 102 permit.	(102.6)
	bb. Fallure to withhold a building or other permit or approval from those proposing or conducting earth disturbance activities, which require a Department permit, until the Department or conservation district has approved/acknowledged the Chapter 102 permit.	(102.43)

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATERWAYS ENGINEERING AND WETLANDS

Permit No. _____

Report No. 2

EARTH DISTURBANCE INSPECTION REPORT

Project Name 502-512 Walnut St. Demo Project Inspection Date 6/27/16 Inspection Time 12:30 – 12:45 pm

Continuation Sheet Site Description & Observations:

Continued on page _____ of _

Compliance Assistance Measures: 1) Should correct violations noted on page 1 of report.

2) An Erosion and Sediment Control Plan should be submitted to Conservation District for review and approval along with \$150.00 fee.

3) Should work to adequately stabilize disturbed areas. Should spread topsoil on site prior to reseeding and also put hay or straw mulch over seeding.

Follow-up Inspection will occur on or about (date)

Report compiled in office (Signature of Site Representative)

(Date)

(Inspector's Signature)

6/27/16 (Date)

The Site Representative's signature acknowledges that they have read the report and received a copy and that they were given an opportunity to discuss it with the inspector. The signature does not necessarily mean the signee agrees with the report.

This report is official notification that a representative of the Department of Environmental Protection has conducted an inspection of your earth disturbance activity to determine compliance with Title 25, Chapter 92a, <u>National Pollutant Discharge Elimination System</u>, Title 25, Chapter 102, <u>Erosion and Sediment Control</u>, and the Pennsylvania <u>Clean Streams Law</u>. This representative may be an employee of the local County Conservation District, which by delegation agreement with the Department of Environmental Protection, is authorized to investigate compliants, inspect earth disturbance activities and conduct compliance actions. Any violations observed by the Department/Conservation District have been noted on this report form and constitute unlawful conduct as defined in Section 611 of the Clean Streams Law.

There will be no written confirmation of those violations from the Department. Failure to take corrective actions to resolve the violations may result in administrative, civil and/or criminal penalties being instituted by the Department of Environmental Protection as defined in Section 602 of the Clean Streams Law of Pennsylvania. The Clean Streams Law provides for up to \$10,000 per day in civil penalties, up to \$10,000 in summary criminal penalties, and up to \$25,000 in misdemeanor criminal penalties for each violation.

This report does not constitute an Order or appealable action of the Department. Nothing contained herein shall be deemed to grant or imply immunity from legal action for any violation noted herein.

For further information or assistance, contact:

Robert Fetter Resource Conservationist-Network Administrator York County Conservation District 118 Pleasant Acres Road York, PA 17402 (717) 840-7430 ejordan@yorkccd.org ίξ.



Conserving Natural Resources for Our Future

July 5, 2016

Walker Construction Willie Walker 112 Maple Street York PA 17401

Via First Class Mail/Electronic Mailing

RE: Earth Disturbance Inspection for 502-512 Walnut St. Demo Project File # 021-16 City of York York County

Dear Mr. Walker:

On 6/27/2016 a representative of the York County Conservation District conducted an inspection of earth disturbance activities at the 502-512 Walnut St. Demo Project site. Please refer to the enclosed inspection report as guidance to obtain voluntary compliance with the Chapter 102 Erosion and Sediment (E&S) Control Rules and Regulations.

The York County Conservation District, by delegation agreement with the Pennsylvania Department of Environmental Protection (DEP), is authorized to investigate complaints and inspect earth disturbance activities to determine compliance with the Commonwealth's Clean Streams Law and Chapter 102, E&S Control Rules and Regulations.

The enclosed inspection report identifies the site conditions at 502-512 Walnut St. Demo Project as of 3/15/2016. The inspection report reveals that earth disturbance activities are being conducted in a manner that is contrary to the approved erosion and sediment control plan and are in continued violation of the Pennsylvania's The Clean Streams Law, the Act of June 22, 1937, P. L. 1987 as amended, 35 P.S. S691.1 et esq., and Chapter 102, Erosion Control Rules and Regulations.

The Conservation District requests that the E&S plan for the above referenced site be submitted to the Conservation District by 7/14/2016. *Please note that failure to submit a copy of the E&S plan as requested is a violation of 25 Pa. Code 102.4.*

The Conservation District's primary mission is to educate and assist the public in making the best choices in conserving and protecting our natural resources. *In so doing the Conservation District prefers to resolve this matter through voluntary means.* Please contact the District in reference to the corrective measures you plan to take or have already taken and the expected timeframes for completion.

Please be advised the Conservation District and/or representatives of the Department will be conducting future inspections at the site.

Your cooperation in resolving this matter is greatly appreciated. If you should have any questions, please feel free to contact me at ph. # 717-840-7430.

Sincerely,

Robert Fetter Resource Conservationist

Enclosure- Inspection report cc: City of York

File



118 Pleasant Acres Road • York, PA 17402-8984 • Tel (717) 840-7430 • Fax (717) 755-0301 • www.yorkccd.org

3150-FM-BWEW0092 Rev. 10/2015

DEPARTMENT OF ENVIRONMENTAL PROTECTION COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATERWAYS ENGINEERING AND WETLANDS

Permit	No.	
Report	No.	2

EARTH DISTURBANCE INSPECTION REPORT

Project Name 502-512 Walnut St. Demo Project Inspecti	on Date <u>6/27/16</u> Inspection Time <u>12:30 – 12:45 pm</u>
Weather Conditions Sunny, 70°	Total Project Area ~ 8,100 sq. ft.
Location Off of Walnut St. near intersection with Austin Ave.	Total Disturbed Area <u>8,100 sq. ft.</u>
Municipality City of York	County York
Receiving Water(s) Codorus Creek	Designated/Existing Use WWF
Responsible Party(s) Walker Construction – Willie Walker (name & address) 112 Maple St. York, PA 17401	
Site Representative (name) <u>No one on site.</u> (title)	Inspector (name) <u>Robert Fetter</u> (title) <u>Resource Conservationist – Network Admin.</u>
Type of Inspection Routine complete Routine partial Follow-up	Photographs Taken Yes 🛛 No 🗌 Complaint 🗌 Final 🗍
 Site Description & Observations: 1) Follow-up to 3/15/16 insp 2) Disturbed areas appear to have been seeded, but not mulch 3) Silt fence installed but not maintained. 4) Erosion and sediment control plan not submitted to York Could areas appear to the second sediment control plan not submitted to York Could areas appear to the second sediment control plan not submitted to York Could areas appear to the second sediment control plan not submitted to York Could areas appear to the second s	ed and not adequately stabilized. (t,w). (e,w) Inty Conservation District as requested. (c)

Continued on page 3 of

		Permit and Plan Requirements	Тур	e of Activity (check as many	y as a	appropriate)
Y	Ν					Other
		Written Erosion & Sediment Plan required		Pub. Road Constr./Maint. (PRC)	\times	Pvt. Road/Residence (PRRS)
	\boxtimes	Written Post Construction Stormwater Management Plan required		Res. Subdivision (RSBD)		Comm./Indust. Dev. (CMIN)
\boxtimes		Erosion & Sediment Plan requested		Govmt. Facilities (GOV)		Recreation Facilities (RECF)
	\boxtimes	Post Construction Stormwater Management Plan requested		Utilities Facilities (UTL)		Agricul. Activities (AGA)
	\boxtimes	E & S Permit required 🛛 ESCGP Permit required		Sewer/Water Systems (SWS)		Pipellne (PL)
	\boxtimes	NPDES Pennit required		Remediation/Restoration (RRES)		Silviculture (SILV)
		Phased Constr. Non-Phased Constr.				
Peri	mit #:	Exp. Date:				

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATERWAYS ENGINEERING AND WETLANDS

Permit No. _____

Report No. 2

EARTH DISTURBANCE INSPECTION REPORT

Project Name 502-512 Walnut St. Demo Project Inspection Date 6/27/16 Inspection Time 12:30 - 12:45 pm

Inspe	ction Findings	Reference
	No violations observed at this time.	□ (N/A)
	a. Failure to develop a written Erosion and Sediment (E&S) Plan.	(102.4)
4	b. Failure to have an E&S Plan available onsite.	(102.4)
	c. Failure to submit an E&S Plan as requested.	⊠ (102.4)
	d. Failure to implement effective E&S Best Management Practices (BMPs).	(102.4)
	e. Failure to maintain effective E&S BMPs.	⊠ (102.4)
	 Failure to use Antidegradation Best Available Combination of Technologies (ABACT) BMPs for discharges to High Quality or Exceptional Value Waters. 	(102.4)
	g. Fallure to obtain an NPDES Permit for Stormwater Discharges Associated with Construction Activities.	(102.5)
	h. Failure to obtain an E&S Permit.	(102.5)
	i. Failure to prepare and implement a Preparedness, Prevention, and Contingency (PPC) Plan.	(102.5)
	j. Failure to submit a Notice of Termination (NOT).	(102.7)
	k. Failure to develop a written Post Construction Stormwater Management (PCSM) Plan/Restoration Plan.	(102.8)
ł	I. Failure to have PCSM Plan/Restoration Plan available onsite.	102.8)
il.	m. Failure to submit PCSM Plan/Restoration Plan as requested.	(102.8)
	n. Failure to implement effective PCSM BMPs.	(102.8)
	o. Fallure to maintain effective PCSM BMPs.	(102.8)
	p. Failure to perform reporting and recordkeeping as required.	(102.8)
	q. Fallure to implement riparian buffer or riparian forest buffer.	(102.14)
i.	r. Failure to meet regulatory requirements for riparlan forest buffer.	(102.14)
1	s. Failure to provide temporary stabilization of the earth disturbance site.	(102.22)
	t. Failure to provide permanent stabilization of the earth disturbance site.	🛛 (102.22)
	u. Failure to comply with permit conditions.	🔲 (402 CSL)
	v. Sediment or other pollutant was discharged into waters of the Commonwealth.	(401 CSL)
	w. Site conditions present a potential for pollution to waters of the Commonwealth.	🛛 (402 CSL)
	x. Failure to comply with a Department Order.	[] (402, 611 CSL)
ġ	y. Failure to comply with PCSM long-term operation and maintenance requirements.	(102.8)
	z. Fallure to conduct a preconstruction meeting.	(102.5)
	aa. Failure to provide proof of consultation with the Pennsylvania Natural Heritage Program regarding the presence of a State or Federal threatened or endangered species on a project site requiring a Chapter 102 permit.	(102.6)
	bb. Fallure to withhold a building or other permit or approval from those proposing or conducting earth disturbance activities, which require a Department permit, until the Department or conservation district has approved/acknowledged the Chapter 102 permit.	(102.43)

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATERWAYS ENGINEERING AND WETLANDS

Permit No. _____

Report No. 2

EARTH DISTURBANCE INSPECTION REPORT

Project Name 502-512 Walnut St. Demo Project Inspection Date 6/27/16 Inspection Time 12:30 – 12:45 pm

Continuation Sheet Site Description & Observations:

Continued on page _____ of _

Compliance Assistance Measures: 1) Should correct violations noted on page 1 of report.

2) An Erosion and Sediment Control Plan should be submitted to Conservation District for review and approval along with \$150.00 fee.

3) Should work to adequately stabilize disturbed areas. Should spread topsoil on site prior to reseeding and also put hay or straw mulch over seeding.

Follow-up Inspection will occur on or about (date)

Report compiled in office (Signature of Site Representative)

(Date)

(Inspector's Signature)

6/27/16 (Date)

The Site Representative's signature acknowledges that they have read the report and received a copy and that they were given an opportunity to discuss it with the inspector. The signature does not necessarily mean the signee agrees with the report.

This report is official notification that a representative of the Department of Environmental Protection has conducted an inspection of your earth disturbance activity to determine compliance with Title 25, Chapter 92a, <u>National Pollutant Discharge Elimination System</u>, Title 25, Chapter 102, <u>Erosion and Sediment Control</u>, and the Pennsylvania <u>Clean Streams Law</u>. This representative may be an employee of the local County Conservation District, which by delegation agreement with the Department of Environmental Protection, is authorized to investigate compliants, inspect earth disturbance activities and conduct compliance actions. Any violations observed by the Department/Conservation District have been noted on this report form and constitute unlawful conduct as defined in Section 611 of the Clean Streams Law.

There will be no written confirmation of those violations from the Department. Failure to take corrective actions to resolve the violations may result in administrative, civil and/or criminal penalties being instituted by the Department of Environmental Protection as defined in Section 602 of the Clean Streams Law of Pennsylvania. The Clean Streams Law provides for up to \$10,000 per day in civil penalties, up to \$10,000 in summary criminal penalties, and up to \$25,000 in misdemeanor criminal penalties for each violation.

This report does not constitute an Order or appealable action of the Department. Nothing contained herein shall be deemed to grant or imply immunity from legal action for any violation noted herein.

For further information or assistance, contact:

Robert Fetter Resource Conservationist-Network Administrator York County Conservation District 118 Pleasant Acres Road York, PA 17402 (717) 840-7430 ejordan@yorkccd.org ίξ.

Jim Gross			
From: Sent: To: Cc: Subject: Attachments:	Robert Fetter <rfetter@yorkccd.org> Friday, December 02, 2016 1:11 PM darcuri@appleretail.net; jparr@stewartandtate.com; eric@restuciaexcavating.com; bpalmer@stewartandtate.c g2@appleretail.net; Veronica Chavez; Jim Gross; landscape@strathmeyer.com Apple Retail Properties - Proposed Restaurants SKMBT_C224e16120214110.pdf; Proposed Restaurants 11-22-16 photos.pdf</rfetter@yorkccd.org>	. E	
Importance:	High		
Good Afternoon all,			
Attached are inspection re	port and photos from 11/22/16 inspection. If you have any questions, feel free to email or call me.		
Thanks			
Robert Fetter, CPESC, (Resource Conservationi Network Administrator York County Conservatio	CET st- on District		
Tio Freasant Adres Fd. York, PA 17402 Ph: 717-840-7430 Fax: 7 <u>www.yorkccd.org</u>	J17-755-0301		
Find us on: facebook			
	r-1		
3150-FM-BWEVV0092 Rov. 10/2015 Pennsylvania DEPARTMENT OF ENVIRONMENTAL PROTECTION COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATERWAYS ENGINEERING AND WETLANDS

Permit No. PAG02006715095

Report No. 2

EARTH DISTURBANCE INSPECTION REPORT

Project Name Proposed Restaurants Ins	pection Date 11/22/16 Inspection Time 1:15 - 1:30pm						
Weather Conditions Sunny, 47	Total Project Area 1.07 acres						
Location 890 Loucks RD & Fairlane Drive	Total Disturbed Area 1.07 acres						
Municipality City of York	County York						
Receiving Water(s) Willis Run	Designated/Existing Use WWF						
Responsible Party(s) <u>Apple Retail Properties - Gary Gill</u> (name & address) <u>950 Smile Way</u> <u>York, PA 17404</u>	pert II Stewart & Tate						
Phone (717 <u>) 771-3522</u>	()						
Site Representative (name) <u>Stewart & Tate</u> (title)	Site Representative (name) Stewart & Tate Inspector (name) Robert Fetter (title) (title) Resource Conservationist – Network Admin.						
Type of Inspection	Photographs Taken Yes 🛛 No 🗔						
Routine complete 📋 Routine partial 🛄 Follow-	up 🖾 Complaint 🗌 Final 🛄						
Site Description & Observations: <u>1) Follow-up to 9/26/1</u> <u>2) Currently working in construction sequence #10 & 11.</u> <u>3) Buildings are up, curbing installed, areas stoned and w</u> <u>4) Stormwater infiltration/detention basin installed, but no</u>	<u>6 inspection.</u> <u>rorking on pavement.</u> t stabilized as per plan & 9/26 inspection. Discussed (t.u.w) ed to mett entire basin. If matting installed, would not						

Continued on page 3 of

ľ			Permit and Plan Requirements	Тур	e of Activity (check as man	y 85 2	appropriate)
	Y	N					Other
-	X		Written Erosion & Sediment Plan required		Pub. Road Constr./Maint. (PRC)	\Box	Pvt. Road/Residence (PRRS)
	X		Written Post Construction Stamwater Management Plan required		Res. Subdivision (RSBD)		Comm./Indust. Dev. (CMIN)
		\boxtimes	Erosion & Sediment Plan requested		Govmt. Facilities (GOV)		Recreation Facilities (RECF)
		\boxtimes	Post Construction Stormwater Management Plan requested		Utilities Facilities (UTL)		Agricul, Activities (AGA)
		X	E & S Permit required 🛛 📋 ESCGP Permit required		Sewer/Water Systems (SWS)		Pipeline (PL)
	X		NPDES Permit required		Remediation/Restoration (RRES)		Silviculture (SILV)
			Phased Constr. Non-Phased Constr.				
ALC: NOT THE OWNER	Pen	mit #:	PAG02006715095 Exp. Date: 3/28/21				

3150-FM-BWEW0092 Rev. 10/2015 pennsylvania DEMATINGIT OF BAVERAMENTAL PROTECTION COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATERWAYS ENGINEERING AND WETLANDS

Permit No. PAG02006715095

Report No. 2

EARTH DISTURBANCE INSPECTION REPORT

Project Name Proposed Restaurants inspection Date 11/22/16 Inspection Time 1:15 - 1:30pm

Inspection Findings	Reference
No violations observed at this time.	🗍 (N/A)
a. Failure to develop a written Erosion and Sediment (E&S) Plan.	(102.4)
b. Failure to have an E&S Plan available onsite.	(102.4)
c. Failure to submit an E&S Plan as requested.	[] (102.4)
d. Failure to implement effective E&S Best Management Practices (BMPs).	🖾 (102.4)
e. Failure to maintain effective E&S BMPs.	(102.4)
 Failure to use Antidegradation Best Available Combination of Technologies (ABACT) E for discharges to High Quality or Exceptional Value Waters. 	IMPs (102.4)
g. Failure to obtain an NPDES Permit for Stormwater Discharges Associated with Constru Activities.	ction (102.5)
h. Failure to obtain an E&S Permit.	(102.5)
i. Failure to prepare and implement a Preparedness, Prevention, and Contingency (PPC) Pl	an. 🔲 (102.5)
j. Failure to submit a Notice of Termination (NOT).	(102.7)
k. Failure to develop a written Post Construction Stormwater Management (PC Plan/Restoration Plan.	SM) 🗌 (102.8)
I. Failure to have PCSM Plan/Restoration Plan available onsite.	(102.8)
m. Failure to submit PCSM Plan/Restoration Plan as requested.	(102.8)
n. Failure to implement effective PCSM BMPs.	(102.8)
o. Fallure to maintain effective PCSM BMPs.	(102.8)
p. Failure to perform reporting and recordkeeping as required.	(102.8)
q. Failure to implement riparian buffer or riparian forest buffer.	(102.14)
r. Fallure to meet regulatory requirements for riparian forest buffer.	(102.14)
s. Failure to provide temporary stabilization of the earth disturbance site.	(102.22)
t. Failure to provide permanent stabilization of the earth disturbance site.	🛛 (102.22)
u. Fallure to comply with permit conditions.	(402 CSL)
v. Sediment or other pollutant was discharged into waters of the Commonwealth.	(401 CSL)
w. Site conditions present a potential for pollution to waters of the Commonwealth.	🛛 (402 CSL)
x. Failure to comply with a Department Order.	(402, 611 CSL)
y. Failure to comply with PCSM long-term operation and maintenance requirements.	(102.8)
z. Failure to conduct a preconstruction meeting.	(102.5)
aa. Failure to provide proof of consultation with the Pennsylvania Natural Heritage Pro- regarding the presence of a State or Federal threatened or endangered species on a pr site requiring a Chapter 102 permit.	gram 🔲 (102.6) oject
bb. Failure to withhold a building or other permit or approval from those proposing or condu earth disturbance activities, which require a Department permit, until the Department conservation district has approved/acknowledged the Chapter 102 permit.	cting (102.43) nt or
Inspection of this project has revealed sile conditions which constitute violations of 2	5 Pa. Code Chapters
92a and/or 102 and the Clean Streams Law, the act of June 22, 1937, P.L. 1987, 35 P.S.	691.1 et seg.

			Permit No. P	4G02006715095
· · · · · · · · · · · · · · · · · · ·			Report No. 2	
EARTH	DISTURBAN	CE INSPECTION	REPORT	
Project Name Proposed Restaurants	i Insi	ection Date 11/22/16	Inspection Time	1:15 – 1:30pm
Continuation Sheet Site Description & Observations:				
	Continued on p	age of		
Compliance Assistance Measures: Should immediately correct violation	t) Should follow app ns noted on page 1 c	roved E&S. If this report.		
oliow-up inspection will occur on (or about (date)			
				·····
		Robert of	atte	<u>11/22/</u>
Report compiled in office				-
Report compiled in office (Signature of Site Representative)	(Date)	(Inspector's Sig	nature)	(Date

Date: «Int	ection Date»	Site Name:	«Site_Na	me»			Permit #	«Per	mit_Number»
Municipalit	/ «Township	Boro»	Complaint	# «Comp	laint_	number»	Photograp	her:	«Tech»
Weather :		······	In	isp. #			Type of C	amera	a : Digital



Looking at infiltration/detention basin



Looking North along East end of site.



infiltration/detention basin & filter sock



Looking South along East end of site

Please be advised the Conservation District and/or representatives of the Department will be conducting future inspections at the site. If future inspections reveal that required corrective actions have not been made and/or additional violations have occurred, the York County Conservation District may initiate an enforcement action. This notice is neither an order nor any other final action of the Department of Environmental Protection (DEP). It neither imposes nor waives any enforcement action available to the Department.

Your cooperation in resolving this matter is greatly appreciated. If you should have any questions, please feel free to contact me at ph. # 717-840-7430.

Sincerely,

Robert Fettér, CPESC, CET Resource Conservationist-Network Administrator

Enclosure- Inspection report cc: City of York

File

3150-FM-BWEW0092 Rev. 10/2015 pennsylvaria DEMARTMENT OF ENVIRONMENTAL PROTECTION COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATERWAYS ENGINEERING AND WETLANDS

Permit No. _____

Report	No.	4	
		_	

EARTH DISTURBANCE INSPECTION REPORT

Project Name <u>502-512 Walnut St. Demo Project</u> Inspection	Date <u>3/22/17</u> Inspection Time <u>1:00 – 1:15 pm</u>
Weather Conditions Sunny, 39°	Total Project Area ~ 8,100 sq. ft.
Location Off of Walnut St. near intersection with Austin Ave.	Total Disturbed Area 8,100 sq. ft
Municipality <u>City of York</u> C	ounty York
Receiving Water(s) Codorus Creek D	esignated/ExistIng Use <u>WWF</u>
Responsible Party(s) Walker Construction – Willie Walker (name & address) 112 Maple St. York, PA 17401 York, PA 17401 Phone (717) 424-0850	
	·-··
Site Representative (name) <u>No one on site.</u>	Inspector (name) <u>Robert Fetter</u> (title) <u>Resource Conservationist – Network Admin.</u>
Site Representative (name) No one on site. (title)	Inspector (name) <u>Robert Fetter</u> (title) <u>Resource Conservationist – Network Admin.</u> Photographs Taken Yes X No
Site Representative (name) No one on site. (title) Type of Inspection Routine complete Routine partial	

Continued on page 3 of

		Permit and Plan Requirements	Тур	e of Activity (check as many	y as a	appropriate)
Y	Ν					Other
\boxtimes		Written Erosion & Sediment Plan required		Pub. Road Constr./Maint. (PRC)	\boxtimes	Pvt. Road/Residence (PRRS)
	\boxtimes	Written Post Construction Stormwater Management Ptan required		Res. Subdivision (RSBD)		Comm./indust. Dev. (CMIN)
\boxtimes		Erosion & Sediment Plan requested		Govrnt. Facilities (GOV)		Recreation Facilities (RECF)
	\boxtimes	Post Construction Stormwater Management Plan requested		Utilities Facilities (UTL)		Agricul. Activities (AGA)
	\boxtimes	E & S Permit required 🛛 ESCGP Permit required		Sewer/Water Systems (SWS)		Pipeline (PL)
	\boxtimes	NPDES Permit required		Remediation/Restoration (RRES)		Silviculture (SILV)
		Phased Constr. Non-Phased Constr.				
Peri	mit #:	Exp. Date:				

L

COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATERWAYS ENGINEERING AND WETLANDS

Permit No. _____

Report No. 4

EARTH DISTURBANCE INSPECTION REPORT

Project Name 502-512 Walnut St. Demo Project Inspection Date 3/22/17 Inspection Time 1:00 – 1:15 pm

Insp	ection Findings	Reference
	No violations observed at this time.	□ (N/A)
	a. Failure to develop a written Erosion and Sediment (E&S) Plan.	🛛 (102.4)
	b. Failure to have an E&S Plan available onsite.	(102.4)
	c. Failure to submit an E&S Plan as requested.	🛛 (102.4)
	d. Failure to Implement effective E&S Best Management Practices (BMPs).	(102.4)
	e. Failure to maintain effective E&S BMPs.	⊠ (102.4)
	f. Failure to use Antidegradation Best Available Combination of Technologies (ABACT) BMPs for discharges to High Quality or Exceptional Value Waters.	(102.4)
	g. Failure to obtain an NPDES Permit for Stormwater Discharges Associated with Construction Activities.	(102.5)
	h. Failure to obtain an E&S Permit.	(102.5)
	i. Failure to prepare and implement a Preparedness, Prevention, and Contingency (PPC) Plan.	(102.5)
	j. Failure to submit a Notice of Termination (NOT).	(102.7)
	k. Failure to develop a written Post Construction Stormwater Management (PCSM) Plan/Restoration Plan.	(102.8)
	I. Failure to have PCSM Plan/Restoration Plan available onsite.	(102.8)
	m. Failure to submit PCSM Plan/Restoration Plan as requested.	(102.8)
	n. Fallure to implement effective PCSM BMPs.	(102.8)
	o. Failure to maintain effective PCSM BMPs.	(102.8)
	p. Failure to perform reporting and recordkeeping as required.	(102.8)
	g. Failure to implement riparian buffer or riparian forest buffer.	(102.14)
	r. Failure to meet regulatory requirements for riparian forest buffer.	(102.14)
	s. Failure to provide temporary stabilization of the earth disturbance site.	(102.22)
	t. Failure to provide permanent stabilization of the earth disturbance site.	🛛 (102.22)
	u. Failure to comply with permit conditions.	(402 CSL)
	v. Sediment or other pollutant was discharged into waters of the Commonwealth.	(401 CSL)
	w. Site conditions present a potential for pollution to waters of the Commonwealth.	(402 CSL)
	x. Failure to comply with a Department Order.	☐ (402, 611 CSL)
	y. Failure to comply with PCSM long-term operation and maintenance requirements.	(102.8)
	z. Failure to conduct a preconstruction meeting.	(102.5)
	aa. Failure to provide proof of consultation with the Pennsylvania Natural Heritage Program regarding the presence of a State or Federal threatened or endangered species on a project site requiring a Chapter 102 permit.	☐ (102.6)
	bb. Failure to withhold a building or other permit or approval from those proposing or conducting earth disturbance activities, which require a Department permit, until the Department or conservation district has approved/acknowledged the Chapter 102 permit.	□ (102.43)
	Inspection of this project has revealed site conditions which constitute violations of 25 Pa. 92a and/or 102 and the Clean Streams Law, the act of June 22, 1937, P.L. 1987, 35 P.S. §691.1	Code Chapters



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATERWAYS ENGINEERING AND WETLANDS

Permit No.

Report No. 4

EARTH DISTURBANCE INSPECTION REPORT

Project Name 502-512 Walnut St. Demo Project Inspection Date 3/22/17 Inspection Time 1:00 - 1:15 pm

Continuation Sheet Site Description & Observations:

Continued on page _____

Compliance Assistance Measures:

1) Should immediately correct all violations noted on page 1 of this report.

(Date)

- An Erosion and Sediment Control Plan should be submitted to Conservation District by April 4, 2017 for review and approval along with \$150.00 fee.
- 3) <u>Should work to adequately stabilize disturbed areas.</u> Should spread topsoil on site prior to reseeding and also put hay or straw mulch over seeding.

Follow-up Inspection will occur on or about (date)

Report compiled in office (Signature of Site Representative)

<u>3/22/17</u> (Date)

(Inspector's Signature)

of _____

The Site Representative's signature acknowledges that they have read the report and received a copy and that they were given an opportunity to discuse it with the inspector. The signature does not necessarily mean the signee agrees with the report.

This report is official notification that a representative of the Department of Environmental Protection has conducted an inspection of your earth disturbance activity to determine compliance with Trite 25, Chapter 92a, <u>National Pollutant Discharge Elimination System</u>. Title 25, Chapter 102, <u>Erosion and Sediment Control</u>, and the Pennsylvania <u>Clean Streams Law</u>. This representative may be an employee of the local County Conservation District, which by delegation agreement with the Department of Environmental Protection, is authorized to Investigate compliants, inspect earth disturbance activities and conduct compliance actions. Any violations observed by the Department/Conservation District have been noted on this report form and constitute unlawful conduct as defined in Section 611 of the Clean Streams Law.

There will be no written confirmation of those violations from the Department. Failure to take corrective actions to resolve the violations may result in administrative, civil and/or criminal penalities being instituted by the Department of Environmental Protection as defined in Section 602 of the Clean Streams Law of Pennsylvania. The Clean Streams Law provides for up to \$10,000 per day in civil penalities, up to \$10,000 in summary criminal penalities, and up to \$25,000 in misdemeanor criminal penalities for each violation.

This report does not constitute an Order or appealable action of the Department. Nothing contained herein shall be deemed to grant or imply immunity from legal action for any violation noted herein.

For further information or assistance, contact:

Robert Fetter Resource Conservationist-Network Administrator York County Conservation District 118 Pleasant Acres Road York, PA 17402 (717) 840-7430 ejordan@yorkccd.org

Jim Gross	
From:	Robert Fetter <rfetter@yorkccd.org></rfetter@yorkccd.org>
Sent:	Tuesday, October 04, 2016 9:08 AM
To:	darcuri@appleretail.net; jparr@stewartandtate.com; eric@restuciaexcavating.com; bnalmer@stewartandtate.com
Cî	g2@appleretail.net; Veronica Chavez; Jim Gross
Subject: Attachmenter	Apple Retail Properties - Proposed Restaurant/Retail Center
Attachments:	SKMBT_C224e16100409060.pdf, Proposed Restaurants 9-26-16 photos.pdf
Importance:	High
Good Morning all,	

Attached are inspection report and photos from 9/26/16 inspection. If you have any questions, feel free to email or call me.

Thanks

hat take

Robert Fetter, CPESC, CET Resource Conservationist-Network Administrator York County Conservation District 118 Pleasant Acres Rd. Suite E York, PA 17402 Ph: 717-840-7430 Fax: 717-755-0301 <u>www.yorkccd.org</u>



From: scanner@yorkccd.org [mailto:scanner@yorkccd.org] Sent: Tuesday, October 04, 2016 10:07 AM 3150-FM-BWEW0092 Kev. 10/2015 **Dennisylvania** Denatment of environmental Profection COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATERWAYS ENGINEERING AND WETLANDS

	Permit No. <u>PAG02006715095</u>
	Report No. 1
EARTH DISTURBAN	NCE INSPECTION REPORT
Project Name Proposed Restaurants In	spection Date 9/26/16 Inspection Time 12:15 - 12:30pm
Weather Conditions Sunny, 61	Total Project Area 1.07 acres
Location 890 Loucks RD & Fairlane Drive	Total Disturbed Area 1.07 acres
Municipality <u>City of York</u>	County York
Receiving Water(s) <u>Willis Run</u>	Designated/Existing Use WWF
Responsible Party(s) Apple Retail Proportion	
(name & address) 950 Smile Way	uen ii Stewart & Late
York PA 17404	
Phone (717) 771-3522	/ \
Site Representative (name) <u>Stewart & Tate</u> (tille)	Inspector (name) <u>Robert Fetter</u> (title) <u>Resource Conservationist – Network Admin.</u>
Site Representative (name) <u>Stewart & Tate</u> (tille)	Inspector (name) <u>Robert Fetter</u> (iitle) <u>Resource Conservationist – Network Admin.</u> Photographs Taken Yes ⊠ No □
Site Representative (name) <u>Stewart & Tate</u> (tille)	Inspector (name) <u>Robert Fetter</u> (iitle) <u>Resource Conservationist – Network Admin.</u> Photographs Taken Yes ⊠ No □ -up ⊠ Complaint □ Final □
Site Representative (name) Stewart & Tate (tille) Type of Inspection Routine complete I Routine partial I Follow- Site Description & Observations: 1) Routine follow-up I 2) Currently working in construction sequence #8. 3) Site Is rough graded. Working on Building pads. Discure 4) Stormwater infiltration/detention basin installed, but no stabilized. 5) Filter sock not installed between parking lot and infiltration for the stabilized of the sta	Inspector (name) Robert Fetter (title) Resource Conservationist Network Admin. Photographs Taken Yes ⊠ No □ -up ⊠ Complaint □ Final □ Inspection to pre-construction meeting. ssed that hope to curbs and start stoning soon. t stabilized as per plan. Discussed that basin should be (t,u,w) plan. Observed no blown mulch wedge and sections (d,u,w)

Continued on page 3 of

Permit and Plan Requirements				Type of Activity (check as many as appropriate)				
Y	Ν					Other		
X		Written Erosion & Sediment Plan required Written Post Construction Stormwater Management Plan required		Pub. Road Constr./Maint. (PRC) Res. Subdivision (RSBD)		Pvt. Road/Residence (PRRS) Comm./Indust. Dav. (CMIN)		
	X	Erosion & Sediment Plan requested Post Construction Stormwater Management Plan requested		Govmt, Facilities (GOV) Utilities Facilities (UTL)		Recreation Facilities (RECF) Agricul. Activities (AGA)		
		E & S Permit required NPDES Permit required Phased Constr. Non-Phased Constr.		Sewer/Water Systems (SWS) Remediation/Restoration (RRES)		Pipeline (PL) Silviculture (SILV)		
Pen	mit#:	PAG02006715095 Exp. Date: 3/28/21						

3150-FM-BWEW0092 Rev. 10/2015 pennsylvania DEPARTMENT OF BIVERONMENTAL HUDGECTION COMMONWEALTH OF PENNBYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATERWAYS ENGINEERING AND WETLANDS

		Permit No. PAG02006715095
EARTHI	DISTURBANCE INSPECT	
Project Name Proposed Restaurants	Inspection Date 9/2	3/16 Increation Time 12:15 - 12:30 pm
Continuation Sheet Site Description & Observations:		12.13 - 12.0001
	Continued on page of	
Follow-up inspection will occur on or	about (date)	
	he	d -
Report compiled in office (Signature of Site Representative)	(Date) (inspecto	9/26/16 pr's Signature) (Date)
The Site Representative's signature acknowled to discuss it with the inspector. The stageture	ges that they have read the report and rece	elved a copy and that they were given an opportunity
This report is official notification that a representative disturbance activity to determine compliance with T and <u>Sediment Control</u> , and the Pennsylvania <u>Clear</u> which by delegation agreement with the Department activities and conduct compliance actions. Any vio constitute unlawful conduct as defined in Section 6 There will be no written confirmation of those viola administrative, civil and/or criminal penalties being Streams Law of Pennsylvania. The Clean Streat penalties, and up to \$25,000 in misdemeanor criminal This report does not constitute an Order or appeals from legal action for any violation noted herein. For further information or assistance, contact:	e of the Department of Environmental Protective Re of the Department of Environmental Protective Re 25, Chapter 92a, <u>National Pollutant Disch</u> <u>Streams Law</u> . This representative may be a to of Environmental Protection, is authorized to attons observed by the Department/Conserva- tions from the Department. Failure to take of pinstituted by the Department of Environment ms Law provides for up to \$10,000 per day all penalties for each violation. able action of the Department. Nothing conte	tion has conducted an inspection of your earth area Elimination System. Title 25, Chapter 102, Erosion in employee of the local County Conservation District, o investigate complaints, inspect earth disturbance ation District have been noted on this report form and corrective actions to resolve the violations may result in initial Protection as defined in Section 602 of the Clean 7 in civil penalties, up to \$10,000 in summary criminal pined herein shall be deemed to grant or imply immunity
Robert Fetter Resource Conservationist-Network Administrat York County Conservation District 118 Pleasant Acres Road York, PA 17402 (717) 840-7430 rfetter@yorkccd.org	pr	

Date:	9/26/2	016	Site Name:	Apple Retail Properties - Proposed			Permit #	PAG02006715095	
	[Restaurant/Re	tail Center	-			
Munic	ipality	City of Yorl	۲ (Complaint #			Photograp	her:	Robert Fetter
Weath	er :	Sunny, 61		Insp. a	¥ 1		Type of C	lamera	a : Digital



Filter sock bordering Fairlane Dr.



Looking across parking lot area



SW corner of site



Looking at filter sock joint.



Infiltration/detention basin



Inlet protection

MCM #5 Appendix

- MCM #5 Project Plan
- BMP 5.4 Attachments
 - Article 943 (Enforcement and Penalties)
- BMP 5.6 Attachments
 - York City BMP Map
 - Notices of BMP Reinspection
 - BMP Field Inspections

MCM #5 Project Plan

• BMP 5.1

Description:

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

Measurable Goal:

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

Action Plan:

The City has selected to rely on DEP's statewide program for issuing NPDES Permits for stormwater discharges associated with construction activities to satisfy all requirements under BMPs #1 through #3. The City has executed a Memorandum of Understanding with the York County Conservation District to outline the roles and responsibilities shared by each group.

• BMP 5.2

Description:

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

Measurable Goal:

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

Action Plan:

The City has selected to rely on DEP's statewide program for issuing NPDES Permits for stormwater discharges associated with construction activities to satisfy all requirements under BMPs #1 through #3. The City has executed a Memorandum of Understanding with the York County Conservation District to outline the roles and responsibilities shared by each group.

• BMP 5.3

Description:

Ensure that controls are installed that shall prevent or minimize water quality impacts. <u>Measurable Goal</u>:

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

Action Plan:

The City has selected to rely on DEP's statewide program for issuing NPDES Permits for

stormwater discharges associated with construction activities to satisfy all requirements under BMPs #1 through #3. The City has executed a Memorandum of Understanding with the York County Conservation District to outline the roles and responsibilities shared by each group.

• BMP 5.4

Description:

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

Measurable Goal:

Within the first year of coverage under this permit, new permittees shall enact and implement a stormwater management ordinance (municipal) or SOP (non-municipal) that meets the requirements of this General Permit.All permittees shall submit a letter signed by a municipal official, municipal engineer or the municipal solicitor as an attachment to their first periodic report certifying the enactment of a stormwater management ordinance that meets the requirements of this General Permit.

Action Plan:

The City adopted an ordinance consistent with the York County Model Act 167 Ordinance on September 20, 2011. The City Planning/Zoning Department and City Engineer are responsible for reviewing permit and land development applications for consistency with this ordinance.

i) Subdivision and land development submittals are reviewed by the City Engineer for stormwater management compliance. The Engineer issues comments to the City Planner who presents the plan to the City Planning Commission and City Council for approval. It is the City Planner's responsibility to ensure all comments are addressed prior to final plan approval and permit issuance. The City Engineer recommends the establishment of financial security to City Council and provides construction inspection for plans requiring stormwater management facilities. It is the City Planner's responsibility to ensure that Operation and Maintenance Agreements and Stormwater As-Builts are recorded for all applicable projects.

ii) Projects not requiring a land development submittal, which propose to install 1,000 ft2 of impervious area or greater, require the submission of a stormwater management site plan. The City Engineer reviews these plans and issues comments to the City Planner. The City Planner ensures all comments are addressed prior to authorizing the issuing of a permit. It is the City Planner's responsibility to ensure that Operation and Maintenance Agreements and Stormwater As-Builts are recorded for all applicable projects.

iii) Projects not requiring a land development submittal, which propose 999 ft2 of impervious area or less are reviewed and approved internally by the Zoning Department through the City's Small Projects process.

• BMP 5.5

Description:

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

Measurable Goal:

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

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

Action Plan:

The Municipality adopted an ordinance consistent with the York County Model Act 167 Stromwater Ordinance on September 20, 2011 which contains multiple requirements related to LID and the protection of natural features.

i) Specifically, Section 937.01.H.3 requires developers: To the maximum extent practicable, incorporate the techniques for Low Impact Development Practices described in the Pennsylvania Stormwater Best Management Practices Manual (BMP Manual).

ii) The Stormwater Management Ordinance also requires the protection of natural features such as floodplains, wetlands, wooded areas, and existing vegetation.

iii) The City of York is already heavily built up with very few undeveloped parcels remaining. To aid with the large amount of untreated stromwater runoff, the City's ordinance only allows developers to take credit for 80% of existing impervious area when redeveloping a site. This will ultimately lead to an increase in pervious area and stromwater treatment as sites are redeveloped.

• BMP 5.6

Description:

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

Measurable Goal:

Within the first year of coverage under this permit, new permittees shall develop and implement a written inspection program to ensure that stormwater BMPs are properly operated and maintained. The program shall include sanctions and penalties for non-compliance. All permittees shall review and update the inspection program annually and shall continue to implement this BMP.An inventory of PCSM BMPs shall be developed by permittees and shall be continually updated during the term of coverage under the permit as development projects are reviewed, approved, and constructed. This inventory shall include all PCSM BMPs installed since March 10, 2003 that discharge directly or indirectly to your regulated small MS4s. The inventory also should include PCSM BMPs discharging to the regulated small MS4 system that may cause or contribute to violation of water quality standard. The inventory shall include:

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

Action Plan:

1) Written Inspection Program: The City began inventorying and inspecting BMPs during the 2011-2012 permit year. At that time, the City Engineer performed an inspection of all known BMPs and issued violation letters to those owners of facilities which required corrective action. The City worked with a majority of these property owners to correct these issues. During the

subsequent permit years, additional BMPs were added to the inventory as they were discovered in the field or were constructed and were also inspected for compliance. The City continues to work with these owners through follow-up inspections to bring all BMPs installed within the City into compliance. Once the City has achieved compliance across all known BMPs which have been installed since 2003, the following inspection protocol will be followed:

i) All PCSM BMPs will be inspected by City Staff at least once in a four year period. The BMP inspections will be divided into the same four inspection areas that the MCM 3 illicit discharge inspections are utilizing.

ii) The field inspector utilizes a BMP inspection form to certify the inspection occurred and document any deficiencies observed at that time. Photos are also taken to include with these reports.

iii) The City will notify each property owner than an inspection has occurred of their BMP. This letter shall include any deficiencies noted during the inspection and require the owner to remediate these issues within a given amount of time.

iv) The City will perform a follow up inspection of all deficient BMPs upon notification from the owner that all items have been corrected. Steps ii through iv will be repeated until the BMP is deemed compliant.

v) In the event a BMP owner does not comply with the City's request to correct noted deficiencies, the City Solicitor will be consulted to aid in enforcement action against this owner. The type of enforcement action may vary dependent upon the Solicitor's guidance.

vi) All records collected during the inspection process are reported to DEP through each annual report process and uploaded to the GIS system for tracking purposes.

2) Inventory of PCSM BMPs: The City utilizes a GIS based inventory system to track PCSM BMPs. Within this system, all inspection and compliance records are stored in addition to the above required information.

The City utilizes the release of public security for stormwater management BMPs as the trigger to add a BMP to the post construction inventory from the construction inventory. The release of security acts as the City's final approval of a BMP to certify that is was constructed per the approved plan. Any BMP for which the City has not yet released security for, is not considered complete and is not inspected as part of this minimum control measure.

ARTICLE 943 Enforcement and Penalties

943.01 Right-of-entry.

943.02 Inspection.

943.03 Notification.

943.04 Enforcement.

943.05 Suspension and revocation.943.06 Penalties.943.07 Appeals.

943.01 RIGHT-OF-ENTRY.

Upon presentation of proper credentials, the Municipality may enter at reasonable times upon any property within the Municipality to inspect the condition of the stormwater structures and facilities in regard to any aspect regulated by this Ordinance. (Ord. 32-2011. Passed 10-4-11.)

943.02 INSPECTION.

SWM BMPs shall be inspected by the landowner, or the owner's designee, including the Municipality for dedicated and owned facilities, according to the following list of minimum frequencies:

- (a) <u>Annually.</u>
 - (1) During or immediately after the cessation of a ten (10)-year or greater storm, i.e., a storm of a estimated frequency of recurrence of ten (10) years or greater interval of time.
 - (2) A report of all inspections shall be submitted to the Municipality annually.
 (3) All inspection records shall be maintained by the landowner and shall be
 - (3) All inspection records shall be maintained by the landowner and shall be made available to the Municipality upon written request (Ord. 32-2011. Passed 10-4-11.)

943.03 NOTIFICATION.

In the event that a person fails to comply with the requirements of this Ordinance, or fails to conform to the requirements of any permit issued hereunder, the Municipality shall provide written notification of the violation. Such notification shall set forth the nature of the violations and establish a time limit for the correction of these violation(s). Failure to comply within the time specified shall subject such person to the penalty provisions of this Ordinance. All such penalties shall be deemed cumulative and do not prevent the Municipality from pursuing any and all remedies. It shall be the responsibility of the Owner of the real property on which any Regulated Activity is proposed to occur, is occurring, or has occurred, to comply with the terms and conditions of this Ordinance.

(Ord. 32-2011. Passed 10-4-11.)

943.04 ENFORCEMENT.

(a) It shall be unlawful for a person to undertake any regulated activity except as provided in an approved SWM Site Plan, unless specifically exempted in Section 937.02.

(b) It shall be unlawful to violate any Section of this Ordinance.

(c) Inspections regarding compliance with the SWM Site Plan are a responsibility of the Municipality. (Ord. 32-2011. Passed 10-4-11.)

943.05 SUSPENSION AND REVOCATION.

(a) Any approval or permit issued by the Municipality pursuant to this Ordinance may be suspended or revoked for:

- (1)Non-compliance with or failure to implement any provision of the approved SWM Site Plan or O&M Agreement.
- A violation of any provision of this Ordinance or any other applicable law, (2)ordinance, rule, or regulation relating to the Regulated Activity.
- The creation of any condition or the commission of any act during the (3)Regulated Activity which constitutes or creates a hazard, nuisance, pollution, or endangers the life or property of others.
- (b) A suspended approval shall be reinstated by the Municipality when:
 - The Municipality has inspected and approved the corrections to the (1)violations that caused the suspension.
 - (2)The Municipality is satisfied that the violation has been corrected.

An approval that has been revoked by the Municipality cannot be reinstated. The (c) applicant may apply for a new approval under the provisions of this Ordinance.

(d) If a violation causes no immediate danger to life, public health, or property, at its sole discretion, the Municipality may provide a limited time period for the owner to correct the violation. In these cases, the Municipality 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 municipality may revoke or suspend any, or all, applicable approvals and permits pertaining to any provision of this Ordinance.

(Ord. 32-2011. Passed 10-4-11.)

943.06 PENALTIES.

Any person, partnership or corporation who or which has violated the provisions (a) of this Ordinance shall, upon being found liable therefore in a civil enforcement proceeding commenced by the Municipality, pay a judgement of not more than one thousand dollars (\$1,000.00). No judgement shall commence or be imposed, levied or payable until the date of the determination of a violation by the district justice. If the defendant neither pays nor timely appeals the judgement, the Municipality may enforce the judgement pursuant to the applicable rules of civil procedure. Each day that a violation continues shall constitute a separate violation, unless the district justice determining that there has been a violation further determines that there has been a good faith basis for the person, partnership or corporation violating the Ordinance to have believed that there was no such violation, in which event there shall be deemed to have been only one such violation. The Court of Common Pleas, upon petition, may grant an order of stay, upon cause shown, tolling the per diem judgement pending a final adjudication of the violation and judgement.

(b) The Municipality 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. (Ord. 32-2011. Passed 10-4-11.)

943.07 APPEALS.

Any person aggrieved by any action of the Municipality or its designee, relevant (a) to the provisions of this Ordinance, may appeal to the City Council within 30 days of that action.

Any person aggrieved by any decision of the Municipality, relevant to the provisions of this Ordinance, may appeal to the York County Court of Common Pleas within 30 days of the Municipality's decision.

(Ord. 32-2011. Passed 10-4-11.)









The City of York Pennsylvania

101 S. George Street & PO Box 509 & York PA 17405 www.yorkcity.org

Honorable C. Kim Bracey, Mayor

September 7, 2016

Wellspan Health 1401 Roosevelt Avenue York, PA 17404

RE: Stormwater Management Facility Re-Inspection Results Engineer's Project No. 0407.5.21.00

Dear To Whom It May Concern:

The City of York's appointed engineer, C.S. Davidson, Inc., conducted a re-inspection of your stormwater management (SWM) facilities, as required by §943.04 of the City of York Code, on June 24, 2016. The inspection was conducted to determine if your SWM facilities are in compliance with operation and maintenance requirements. Thank you for coordinating for the re-inspection and accompanying the inspector.

Based on inspection findings, your stormwater management basin is currently in compliance with the operation and maintenance agreement.

It should be noted that this letter does not relinquish you of your long-term responsibility to maintain your stormwater facilities and to remain in compliance with the required operation and maintenance practices.

We thank you for your compliance with these requirements and hope we can count on your continued cooperation in the future. If you have any questions or concerns, please do not hesitate to contact Mr. Derek Rinaldo, E.I.T., C.S. Davidson, Inc., at (717) 846-4805 or by email at <u>djr@csdavidson.com</u>.

James E. Gross Director of Public Works

JEG/DJR/ems Enclosures: June 24, 2016 Re-Inspection Form Copy: File

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Mr. Tim Graehling United Refrigeration, Inc. 1030 Vogelsong Road York, PA 17401

RE: United Refrigeration, Inc. Stormwater Management Facility Re-Inspection Results

Dear Mr. Graehling:

The City of York's appointed engineer, C.S. Davidson, Inc., conducted a re-inspection of your stormwater management (SWM) facilities, as required by §943.04 of the City of York Code, on June 24, 2016. The inspection was conducted to determine if your SWM facilities are in compliance with operation and maintenance requirements. Thank you for coordinating for the re-inspection and accompanying the inspector.

The City of York

Pennsylvania

101 S. George Street * PO Box 509 * York PA 17405 www.yorkcity.org

Honorable C. Kim Bracey, Mayor

Based on inspection findings, your stormwater management basin is currently in compliance with the operation and maintenance agreement.

It should be noted that this letter does not relinquish you of your long-term responsibility to maintain your stormwater facilities and to remain in compliance with the required operation and maintenance practices.

We thank you for your compliance with these requirements and hope we can count on your continued cooperation in the future. If you have any questions or concerns, please do not hesitate to contact Mr. Derek Rinaldo, E.I.T., C.S. Davidson, Inc., at (717) 846-4805 or by email at <u>djr@csdavidson.com</u>.

incerely

September 7, 2016

James E. Gross Director of Public Works

JEG/DJR/ems Enclosures: June 24, 2016 Re-Inspection Form Copy: File

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Skyline Gymnastics 2185 Pennsylvania Avenue York, PA 17404

RE: Stormwater Management Facility Re-Inspection Results Engineer's Project No. 0407.5.21.00

To Whom It May Concern:

The City of York's designated engineer, C.S. Davidson, Inc., conducted a re-inspection of your stormwater management (SWM) facility, as required by §943.04 of the City of York Code, on July 13, 2016. The inspection was conducted to determine if your SWM facilities are now in compliance with operation and maintenance requirements.

The City of York

Pennsylvania

101 S. George Street & PO Box 509 & York PA 17405 www.yorkcity.org

Honorable C. Kim Bracey, Mayor

September 7, 2016

Based on inspection findings, the following corrective action has not been adequately addressed and requires further attention. The action is required to be completed by **November 1, 2016**:

1. Flushing of the outfall pipe was not sufficient in removing rocks from end of pipe. Manual labor is required for removal.

Maintenance of SWM facilities is required under Article 940 of the City of York Code. Failure to comply may result in civil enforcement action as permitted under §943 of the City of York Code, which may include a monetary penalty.

After the above corrective actions are complete, contact Mr. Derek Rinaldo, E.I.T., C.S. Davidson, Inc., to schedule a follow-up inspection at (717) 846-4805 or by email at <u>djr@csdavidson.com</u>. Please do not hesitate to contact Mr. Rinaldo should you have any questions concerning the required corrective actions.

es E. Gross

Director of Public Works

JEG/DJR/ems

Enclosures: July 13, 2016 Re-Inspection Form Copy: File K:\040752100\documents\BMP Inspections\Skyline Gymnastics\Inspection Letters\2016-08-26 re-inspection Skyline Gymnastics Letter.docx



The City of York Pennsylvania

101 S. George Street & PO Box 509 & York PA 17405 www.yorkcity.org

Honorable C. Kim Bracey, Mayor

September 7, 2016

James Abrial Maintenance Supervisor Protech Powder Coatings, Inc. 939 Monocacy Road York, PA 17404

RE: Protech Power Coatings, Inc. Stormwater Management Facility Inspection Stormwater Management Facility Required Corrective Actions

Dear Mr. Abrial:

The City of York's designated engineer, C.S. Davidson, Inc., conducted a re-inspection of your stormwater management (SWM) facility, as required by §943.04 of the City of York Code, on July 18, 2016. The inspection was conducted to determine if your SWM facilities are in compliance with operation and maintenance requirements.

Based on inspection findings, your stormwater management basin is currently in compliance with the operation and maintenance agreement.

It should be noted that this letter does not relinquish you of your long-term responsibility to maintain your stormwater facilities and to remain in compliance with the required operation and maintenance practices.

We thank you for your compliance with these requirements and hope we can count on your continued cooperation in the future. If you have any questions or concerns, please do not hesitate to contact Mr. Derek Rinaldo, E.I.T., C.S. Davidson, Inc., at (717) 846-4805 or by email at <u>dir@csdavidson.com</u>.

Incerely James E. Gross

Director of Public Works

JEG/DJR/ems Enclosure: July 18, 2016 Re-Inspection Form Copy: File

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Mr. Ed Elscheid HET Enterprises, LLC 1631 Bridge Street New Cumberland, PA 17070

The City of York Pennsylvania

101 S. George Street & PO Box 509 & York PA 17405 www.yorkcity.org

Honorable C. Kim Bracey, Mayor

September 7, 2016

RE: Colony Park Corner Stormwater Management Facility Re-Inspection Results

Dear Mr. Elscheid:

The City of York's designated engineer, C.S. Davidson, Inc., conducted a re-inspection of your stormwater management (SWM) facility, as required by §943.04 of the City of York Code, on July 13, 2016. The inspection was conducted to determine if your SWM facilities are in compliance with operation and maintenance requirements.

Based on inspection findings, your stormwater management basin is currently in compliance with the operation and maintenance agreement.

It should be noted that this letter does not relinquish you of your long-term responsibility to maintain your stormwater facilities and to remain in compliance with the required operation and maintenance practices.

We thank you for your compliance with these requirements and hope we can count on your continued cooperation in the future. If you have any questions or concerns, please do not hesitate to contact Mr. Derek Rinaldo, E.I.T., C.S. Davidson, Inc., at (717) 846-4805 or by email at <u>djr@csdavidson.com</u>.

/ James E. Gross Director of Public Works

JML/DJR/ems Enclosures: July 13, 2016 Re-Inspection Form Copy: File

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The City of York Pennsylvania

101 S. George Street * PO Box 509 * York PA 17405 www.vorkcity.org

Honorable C. Kim Bracey, Mayor

September 7, 2016

Mr. Bill Villani Cintas 1111 Smile Way York, PA 17404

RE: Cintas – Re-Inspection Stormwater Management Facility Required Corrective Actions Engineer's Project No. 0407.5.21.00

Dear Mr. Villani;

The City of York's designated engineer, C.S. Davidson, Inc., conducted a re-inspection of your stormwater management (SWM) facility, as required by §943.04 of the City of York Code, on July 18, 2016. The inspection was conducted to determine if your SWM facilities are now in compliance with operation and maintenance requirements,

Based on inspection findings, the following corrective actions have not been adequately addressed and are required to be completed by November 1, 2016:

- 1. BMP: BR-1 Level Spreader
 - a. Correct sediment collecting in inlet structure
- 2. BMP: S3-Swale
 - a. Clean inlet above outlet pipe

Maintenance of SWM facilities is required under Article 940 of the City of York Code. Failure to comply may result in civil enforcement action, as permitted under §943 of the City of York Code, which may include a monetary penalty.

After the above corrective actions are complete, contact Mr. Derek Rinaldo, E.I.T., C.S. Davidson, Inc., to schedule a follow-up inspection at (717) 846-4805 or by email at dir@csdavidson.com. Please do not hesitate to contact Mr. Rinaldo if you have any questions concerning the required corrective actions.

més E. Gross

Director of Public Works

JEG/DJR/ems

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Enclosures: July 18, 2016 Re-Inspection Forms

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The City of York Pennsylvania

101 S. George Street & PO Box 509 & York PA 17405 www.yorkcity.org

Honorable C. Kim Bracey, Mayor

September 7, 2016

Mr. Michael O'Neill Apple Automotive Group 950 Smile Way York, PA 17404

RE: Apple Automotive Stormwater Management Facility Required Corrective Actions Engineer's Project No. 0407.5.21.00

Dear Mr. O'Neill:

The City of York's designated engineer, C.S. Davidson, Inc., conducted a re-inspection of your stormwater management (SWM) facility, as required by §943.04 of the City of York Code, on July 29, 2016. The inspection was conducted to determine if your SWM facilities are in compliance with operation and maintenance requirements.

Based on inspection findings, your stormwater management basin is currently in compliance with the operation and maintenance agreement.

It should be noted that this letter does not relinquish you of your long-term responsibility to maintain your stormwater facilities and to remain in compliance with the required operation and maintenance practices.

We thank you for your compliance with these requirements and hope we can count on your continued cooperation in the future. If you have any questions or concerns, please do not hesitate to contact Mr. Derek Rinaldo, E.I.T., C.S. Davidson, Inc., at (717) 846-4805 or by email at <u>dir@csdavidson.com</u>.

/James E. Gross Director of Public Works

JEG/DJR/ems Enclosures: July 29, 2016 Re-Inspection Form Copy: File

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Facsimile: 717-845-7457



BMP Name/ID Wellspan Health

Inspection DateTimeIr06/24/168:00AMMTemperature24 Hr Rainfall48 Hr Rainfall67 °FM

Investigator Mandy L. Druck NPDES Permit #

Weather Mostly Cloudy

Overall

Pipes were parged to structures. Sink holes filled in and curlex matting used for stabilization. Inlet was cleaned out. All items have been completed.

Components

Is BMP in E&S Mode? No

Earthen Component: Other

re-inspection of repaired items.

Recommendations

None

Prepared By **CSDatum**

Photo Log



Photo No. 1: 6-24-16 Wellspan BMP (4).jpg

Photo No. 2: 6-24-16 Wellspan BMP (2).jpg





Photo No. 4: 6-24-16 Wellspan BMP.jpg





NPDES Permit

BMP Name/ID B8 United Refrigeration Basin

Inspection Date	Time		
06/24/16	8:30AM		
Temperature 69 °F	24 Hr Rainfall	48 Hr Rainfall	

Investigator Mandy L. Druck

Weather Mostly Cloudy

Overall

Outlet structure cleaned of debris. Pipe ends cleaned of debris. All items corrected.

Components

Is BMP in E&S Mode? No

Earthen Component: Other Repaired punch list items

Recommendations

None

Prepared By **CSDatum**

Photo Log



Photo No. 1: 6-24-16 United Refrigeration BMP 3.jpg

Photo No. 2: 6-24-16 United Refrigeration BMP 1.jpg



Photo No. 3: 6-24-16 United Refrigeration BMP 2.jpg



BMP Inspection CITY OF YORK



BMP Name/ID NPDES Permit # **Skyline Gymnastics** Inspection Date Investigator Time Mandy L. Druck 07/13/16 9:30AM 24 Hr Rainfall Temperature 48 Hr Rainfall Weather Overall (Fair Condition) Flushing not sufficient in the removal of rocks from pipe Components Is BMP in E&S Mode? No Structural Component: Pipe Large rocks still remaining in outfall pipe Recommendations

1. Manual labor will be required for removal of the rocks

Prepared By **CSDatum**

Photo Log



Photo No. 1: 7-13-16 Skyline Gymnastics.jpg


BMP Name/ID

RG5 Colony Park Corner Rain Garden/Bio-retention

Inspection DateTime07/13/1610:00AMTemperature24 Hr Rainfall48 Hr Rainfall78 °F78 °F

Investigator Mandy L. Druck NPDES Permit #

Weather Overcast

Overall (Good Condition)

All corrective actions seem to be completed.

Components

Is BMP in E&S Mode? No

Structural Component: Other inlets

Recommendations

None

Prepared By **CSDatum**

Photo Log



Photo No. 1: 7-13-16 Colony Park Corner 3.jpg

Photo No. 2: 7-13-16 Colony Park Corner 2.jpg



Photo No. 3: 7-13-16 Colony Park Corner 1.jpg



BMP Name/ID



NPDES Permit

Cintas			
Inspection Date 07/18/16	Time 9:30AN	1	Investigator Mandy L. Druck
Temperature 82 °F	24 Hr Rainfall	48 Hr Rainfall	Weather Clear

Overall (Fair Condition)

BR1 - Level Spreader * Looks like system was flushed, but inlet still needs cleaned out at level spreader. Rip Rap still settling and weeds growing over Rip Rap. S3 - Swale * Sediment has been removed from swale. Erosion has been corrected and re-stabilized. Inlet still needs cleaned out.

Components

Is BMP in E&S Mode? No

Earthen Component: Other Punch list items from BMP inspection letter

Recommendations

- 1. Clean out sediment from inlet at Level spreader.
- 2. Clean out inlet at entranceway for Swale S3.

Prepared By **CSDatum**

Photo Log



Photo No. 1: WIN_20160718_09_38_05_Pro.jpg

Photo No. 2: WIN_20160718_09_38_57_Pro.jpg





Photo No. 4: 7-18-16 Cintas Swale S3..jpg





BMP Name/ID

117 Protech Powder	Coatings Infiltration Trench
Inspection Date	Timo

07/18/16	10:00A	M	
Temperature 85 °F	24 Hr Rainfall	48 Hr Rainfall	

Investigator Mandy L. Druck NPDES Permit #

Weather Clear

Overall (Good Condition)

Sediment and vegetation removed from storm trench. Inlet cleaned of sediment and stone.

Components

Is BMP in E&S Mode? No

Earthen Component: Other

Punch list items from 2016 BMP inspection letter.

Recommendations

None

Prepared By **CSDatum**

Photo Log



Photo No. 1: 7-18-16 Protech 2.jpg

Photo No. 2: 7-18-16 Protech 1.jpg





BMP Name/ID

B1 Apple Automotive Collision Center Stormwater Basin

Inspection Date 07/29/16	Time 10:00AM		Investigator Mandy L. Druck
Temperature	24 Hr Rainfall	48 Hr Rainfall	Weather
78 °F	1 in.	1 in.	Clear

Overall (Good Condition)

All punch list items taken care of. Corrected erosion and working to stabilize ground around structures. Cleaned trash out of swales. Cleaned trash at discharge pipes.

Components

Is BMP in E&S Mode? No

Earthen Component: Other Swale cleared of vegetation

Structural Component: Other

Punch list items from letter to Mr. O'Neill.

Recommendations

None

Prepared By **CSDatum**

NPDES Permit

Photo Log



Photo No. 1: 7-29-16 Apple Automotive 2.jpg

Photo No. 2: 7-29-16 Apple Automotive 3.jpg





Photo No. 4: 7-29-16 Apple Automotive 5.jpg



Photo No. 5: 7-29-16 Apple Automotive 4.jpg





NPDES Permit

BMP Name/ID Skyline Gymnastics

Inspection Date 09/21/16	Time 11:30A	M
Temperature 75 °F	24 Hr Rainfall	48 Hr Rainfall

Investigator Mandy L. Druck

Weather Clear

Overall (Good Condition)

No further inspections needed at this time.

Components

discharge pipe (Good) Discharge pipe has been cleaned and rock removed.

Recommendations

None

Prepared By **CSDatum**

Photo Log



Photo No. 1: 9-21-16 Skyline Gymnastics 1.jpg

MCM #6 Appendix

- MCM #6 Project Plan
- BMP 6.1 Attachments
 - City of York Property Map

• BMP 6.2 Attachments

- Storm Inlet Inspections for Annual Report 2016-2017.pdf
- Operation & Maintenance Program Part 1
- Operation & Maintenance Program Part 2
- Photographs of Signage at City Facilities
- York City Property Checklist
- Storm Sewer Inspection Report Form

• BMP 6.3 Attachments

- Summary of Employee MS4 Trainings 2016-2017.pdf
- York City Employee Training Pogram
- Firemen Training Sign-In Sheets
- Managers Meeting Sign-In Sheet, Mar 7 2017
- Stormwater Presentation Quick Sheet, Mar 7 2017
- Police Stormwater Training Roster as of, Mar 9 2017
- MS4 Training Sign-In Sheet, Dec 2016
- MS4 Training Sign-In Sheet, Jan 2017
- MS4 Stormwater Presentation, Dec 14 2016
- MS4 Stormwater Managers Presentation 2016
- MS4 Task Force Meeting Minutes, April 14 2016
- MS4 Task Force Meeting Minutes, July 14 2016
- MS4 Task Force Meeting Minutes, Nov 17, 2016
- Fall 2016 Employee Newsletter
- WINTER 2016-2017 Employee Newsletter
- SPRING 2017 Employee Newsletter

MCM #6 Project Plan

• BMP 6.1

Description:

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

Measurable Goal:

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

Action Plan:

York City has developed an inventory of all City owned facilities. A GIS based map showing their locations is attached to this plan.

PARKS

- Albemarle Park Albemarle, Edison & Lehman Streets
- Allen Park Hay & Tremont Streets
- Allen Fields Hay & Tremont Streets
- Arles Park King & Pattison Streets
- Bantz Park Salem Ave. Extended
- Campus Park S. Duke St. & College Ave.
- Cherry Lane Park Downtown
- Farquhar Park N. Newberry St.
- Foundry Plaza/Codorus Boat Basin West Philadelphia Street
- Girard Park Girard Ave. & E. Maple St.
- Heritage Rail Trail Downtown
- Hoffman Softball Complex Vander & Rockdale Avenues
- Hudson Park Ridge Ave. & Hay St.
- Kiwanis Lake North Newberry St. & Parkway Blvd
- Lincoln Park Roosevelt Ave., Fahs & Lincoln St.
- Little Jimmy's Park Cottage Hill Rd.
- Martin Luther King Park Penn St. & College Ave.
- Noonan Field Parkway Blvd. & Penna. Ave
- Odeon Fields/Rotary College Avenue Extended
- Penn Park 100 West College Ave.
- Renaissance Park- Poplar and Susquehanna St.
- Salem Square Park

- Thackston Park
- Veteran's Memorial Park Boundary Ave. & Edgar St.
- Westminster Park N. Queen & Arch Streets
- Williams Park Cottage Hill Rd.
- Yorktown Park 1059 Kelly Dr.

RECREATION BUILDINGS

- Grimes Gym 125 E College Ave.
- Princess Center 368 West Princess St
- Rotary-Kranich Hall 120 South Lehman St.
- York City Ice Arena 941 Vander Ave
- Yorktowne Center 1059 Kelly Dr.

FIRE STATIONS

- Fire Dept. Headquarters 43 S Duke St.
- Rex/Laurel Fire Station #1 49 S Duke St.
- Vigilant/Union Fire Station #2 273 W Market St.
- Goodwill Fire Station #5 833 E Market St.
- Lincoln Fire Station #9 800 Roosevelt Ave.

PARKING FACILITIES/LOTS

- Market St Garage 41 E Market St.
- Philadelphia St Garage 25 W Philadelphia St.
- King St Garage 15 W King St.
- Lot #1- 40 E Gas Ave.
- Lot #2 300 W King St.
- Lot #3 150 S Duke St.
- Lot #4 Newton & Howard Ave.
- Lot #7 600 W Mason St.
- Lot #8 200 W Philadelphia St.
- Lot #9 100 W King St.
- Lot #11 100 E Princess St.
- Lot #14 St Paul and Penn St.
- Lot #15 300 W. Princess St.
- Lot #17 200 W Market St.

HEALTH BUREAU FACILITIES

• Albert S. Weyer Health Center/Bureau of Health - 435 W Philadelphia St.

PUBLIC WORKS FACILITIES

- Electrical Bureau/Sewer Maint. Building 1625 Toronita St.
- Highway Bureau/Salt Dome 118 N Broad St.
- Parks Office/Parks Maint. Building 900 Vander Ave.
- Waste Water Treatment Plant 1701 Black Bridge Rd.

POLICE FACILITIES

- Police Department 50 W King St.
- Eagle Fire Station/Community Services Jackson & Jessop St.
- George St. Resource Center 426 S George St.
- Reinecke Place Resource Center 327 Reinecke Place

CITY GOVERNMENT FACILITY

• York City Hall - 101 S George St.

The City has identified the following activities which currently occur within the MS4:

ROUTINE MAINTENANCE

- Street Sweeping
- Inlet Cleaning
- BMP Maintenance
- Storm Sewer Inspections
- Leaf and Christmas Tree Collection
- Snow Removal/Deicing
- Neighborhood Focused Clean-ups

EMERGENCY MAINTENANCE

• Spill Response

VEHICLE AND EQUIPEMENT

- Vehicle Maintenance
- Vehicle Fueling
- Vehicle Washing

• BMP 6.2

Description:

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

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

Measurable Goal:

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

Action Plan:

The City has created Operation and Maintenance procedures for the facilities and activities listed under BMP 6.1 above. This plan, along with the tracking and reporting mechanisms currently in place, are attached to this plan.

Description:

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

Measurable Goal:

During the first year of permit coverage, new permittees shall develop and implement a training program that identifies the training topics that will be covered, and what training methods and materials will be used. Renewal permittees shall continue to operate under their existing program. All permittees shall review the training program annually, edit it as necessary, and continue to implement it during every year of permit coverage. Your employee training shall occur at least annually (i.e., during each permit coverage year) and shall be fully documented in writing and reported in your periodic reports. Documentation shall include the date(s) of the training, the names of attendees, the topics covered, and the training presenter(s).

Action Plan:

A list of municipal employees who need to receive MS4 training is captured in the attached York City Employee Training Plan.

Records of all training events attended shall be maintained by the City. This training can include formal or informal training provided by government agencies, non-profit groups, consultants or internal staff. The proposed goals of the training program are outlined in the attached York City Employee Training Plan.



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Date: 222/17 Reported Problem Routine Maint	ate: 2/22/1 Reported Problem Routine Mai
Inlet/Drain/Manhole (circle one)	ılet/Drain/Manhole (circle one)
Location <u>Gunnison + Priorit</u> , NE Problem: #183/	Priority + Kelly NW roblem:
Debris Blocking Inlet Inlet Full	ebris Blocking Inlet Inlet Full
Grate Off Manhole Cover Off	rate Off Manhole Cover Off
$\frac{\text{Main is Blocked}}{\text{Other} Inspective Content }$	lain is Blocked Inlet Needs Rebuilt Other <i>Inspection</i>
Action Taken:	:tion Taken:
Employees:	nployees:
J Johnson R Glover B Ruby	ohnson R Glover B Ruby
M Stell J Laughman A Murray	Stell J Laughman A Murray
R Richards T Outen J Bean	Richards T Outen J Bean
Equipment Used: Damage:	uipment Used: Damage:
Vactor Lateral Camera Property	ctor Lateral Camera Property
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Inflow/Inf. Source Cleaned Line:	low/Inf. Source Cleaned Line:
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Date: 2/23/17 Reported Problem_____ Routine Maint _____

Inlet/Drain/Manhole (circle one)

Location

Kelly + Priority AW #1822 #1823

Problem:

Debris Blocking Inlet _____ Inlet Full___

Grate Off _____ Manhole Cover Off

Main is Blocked _____ Inlet Needs Rebuilt _____

<u>Other Inspection</u>

Action Taken: _____

Employees:

J Johnson _____ R Glover _____ B Ruby _____

M Stell _____ J Laughman _____ A Murray _____

R Richards _____ T Outen _____ J Bean ____

Equipment Used: Damage:

Vactor _____ Lateral Camera _____ Property ___

Harben _____ TV'V Main _____

Camel _____

Other Information:

Dye Test _____

Inflow/inf. Source _____ Cleaned Line _____:

Root Control Applied _____ Cleaned Line _____;

Repair: Main _____ Date Repaired _____

MHID _____ Replace Cover _____ Installed New Frame/Cover _____

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Photos

Cleaned Line :

Storm Sewer Maintenance Report
Date: 2/22/17Reported Problem Routing
inlet/Drain/Manhole (circle one)
Location Kelly + Priority H
Problem:
Debris Blocking Inlet Inlet Full
Grate Off Manhole Cover Off
Main is Blocked Inlet Needs Rebuilt
<u>Other</u> <u>INSPECTIN</u>
Action Taken:
Employees:
J Johnson R Glover B Ruby
M Stell J Laughman A Murray
R Richards T Outen J Bean
Equipment Used: Damage:
Vactor Lateral Camera Property
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Storm Sewer Maintenance Report	m Sewer Maintenance Report
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inlet/Drain/Manhole (circle one)	/ / :/Drain/Manhole (circle one)
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Grate Off Manhole Cover Off	e Off Manhole Cover Off
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Storm Sewer Maintenance Report	Storm Sewer Maintenance Report
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Inlet/Drain/Manhole (circle one)	/ / Inlet/Drain/Manhole (circle one)
Location June + Priority HE Problem: #1798	Location <u>Priority + June</u> HW Problem:
Debris Blocking Inlet Inlet Full	Debris Blocking Inlet Inlet Full
Grate Off Manhole Cover Off	Grate Off Manhole Cover Off
Main is Blocked Inlet Needs Rebuilt	Main is Blocked Inlet Needs Rebuilt
Wother Inspection	Vother Inspection
Action Taken:	Action Taken:
Employees:	Employees:
J Johnson R Glover B Ruby	J Johnson R Glover B Ruby
M Stell J Laughman A Murray	M Stell J Laughman A Murray
R Richards T Outen J Bean	R Richards T Outen J Bean
Equipment Used: Damage:	Equipment Used: Damage:
Vactor Lateral Camera Property	Vactor Lateral Camera Property
Harben TV'V Main Photos	Harben TV'V Main Photos
Camel	Camel
Other Information:	Other Information:
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Inflow/Inf. Source Cleaned Line:	Inflow/Inf. Source Cleaned Line
Root Control Applied Cleaned Line:	Root Control Applied Cleaned Line:_
Repair: Main Date Repaired	Repair: Main Date Repaired
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Installed Rider Installed MH Cushion	Installed Rider Installed MH Cushio
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Date: 2/24// Reported ProblemRoutine MaintDate: 2/24// Inlet/Drain/Manhole (circle one) Inlet/Drain/Manhole (circle one) Inlet/Drain/Manhole (circle one) Location	22/17Reported ProblemRoutine M in/Manhole (circle one) 0 Rif 4 4 June 1 Rif 4 June 1 Rif 4 June 1 Rif 4 June 1 Rif 5 1 Rif 6 1 Rif 6 1 Rif 6 1 Rif 6 1 Rif 7
Inlet/Drain/Manhole (circle one) Location <u>Chancefond</u> + ArioRity NE Location Problem: Debris Blocking Inlet Inlet Full	in/Manhole (circle one) <u>Ritystone</u> HE #18 pocking Inlet Inlet Full
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Employees: Employee	es:
J Johnson R Glover B Ruby J Johnson	R Glover B Ruby
M Stell J Laughman A Murray M Stell	J Laughman A Murray
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Root Control Applied Cleaned Line Root Cont	trol Applied Cleaned Line:
Repair: Main Date Repaired Repair: M	1ain Date Repaired
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OPERATIONS AND MAINTENANCE PROGRAM

PART 1 – STORM WATER FACILITIES OPERATION AND MANTENANCE IMPLEMENTATION

ROUTINE MAINTENANCE

1. STREET SWEEPING

The City of York has a comprehensive street sweeping plan in place. Two Elgin sweepers are maintained to allow for coverage if there is a breakdown. City streets are swept on a regular basis between March and April. Targeted areas are also swept throughout the year as weather permits. Sweeping grit removed from the streets is deposited in a dumpster and disposed of at Modern Landfill in compliance with the York County Municipal Solid Waste Management Act.

2. INLET CLEANING

The City of York inlet cleaning program is achieved by cleaning off the top of inlets before and after significant rain events and on an as needed basis. The material collected is disposed of at Modern Landfill. While inlet tops are being cleaned the operator does a visual inspection to ensure proper working order. The operator will take note on a provided worksheet if the inlet needs to be repaired or vacuumed out. The worksheet is then used to generate a list for repairs and a list for inlets that need vacuumed out. The vactor truck is then used to remove any debris inside of the inlet. This material is also disposed of at Modern Landfill

3. BMP MAINTENANCE

The City of York maintains five drainage basins within the city limits. One is in Memorial Park and the other four are in the Industrial Park. An annual mowing program maintains all these.

An infiltration facility is located at the N.E. corner of N George and Gay. A shallow trench is covered by a plastic plate that is bolted down. The trench empties into a stone infiltration pit. The plate is removed and the trench is cleaned out on a regular basis. The line to the infiltration pit is also cleaned at that time.

The Jackson Street bio retention areas are under construction and will need regular cleaning of trash and litter and care of vegetation in the future. The inlets contained within these areas will also need regular cleaning and maintenance. These bio retention areas have been implemented in 3 intersections of a 4 block stretch of W. Jackson St.

4. INSPECTION ACTIVITIES

Inspection activities of the city's storm water collection and conveyance system takes place regularly. As staff perform their regular maintenance duties of cleaning off inlet tops and mowing around the BMP's inspection of the area is done to determine if maintenance or cleaning is needed.

5. LEAF AND CHRISTMAS TREE COLLECTION

City residents are encouraged to rake their leaves into piles along the curb lines. Public works crews use 3 leaf loaders with dump trucks to collect the leaves throughout the city in both streets and alleyways. Christmas trees are also placed out for collection. Public Works crews use pick up trucks and one ton dump trucks to collect the trees. This organic matter is hauled to the city compost site where it is the picked up by a local vendor and processed into mulch.

6. DEICING OPERATIONS

Road salt applied by operators is done according to manufacturer's recommendations. All trucks are equipped with control boxes that allow the operator to adjust application rates based on the road width, traffic concentration, temperature and other factors to avoid over application

The salt storage area is under roof in our salt dome. Salt is pushed back in as needed throughout the winter. A large clean up of the salt dome area is to be performed each spring.

7. NEIGHBORHOOD FOCUSED CLEAN-UPS

A regularly scheduled program designates areas throughout the city for a "clean sweep". City staff removes all trash and overgrown brush and debris from these areas. Small trash and debris is blown out into the street ahead of the street sweeper. Items that are too large for the sweeper are loaded into dump trucks and hauled to city dumpsters. Brush is sent to a local mulch producer.

EMERGENCY MAINTENANCE

1. SPILL RESPONSE

Upon notification the York City Fire Dept and/or Public Works crews respond to reported spills. Absorbent materials are utilized to prevent oil and other fluids from reaching the storm water collection system. The street sweeper is then used to sweep up the absorbent material.

2. RAIN EVENTS HEAVY

During heavy rain events public works crews respond as needed for flooding. Inlet tops are cleaned of debris or the inlet is vactored out if needed.

OPERATIONS AND MAINTENANCE REPORT

PART 2 – VEHICLE MAINTENANCE, FUELING AND WASHING

1. VEHICLE MAINTENANCE

As noted in our operations program, vehicle maintenance is performed at the city highway garage located at 118 N. Broad St York, PA 17403. All city owned vehicles are maintained at this facility with the exception of all Fire Dept vehicles. The Fire Dept uses a commercial facility to make needed repairs and perform maintenance. Repairs that are beyond the abilities of staff mechanics at the Highway Garage are performed by local commercial repair facilities

Commercial oil dry absorbent material is used to clean up all oil and other fluid spills. It is stored on a skid in the garage

Cintas Services has be retained as a provider of shop rags for the garage. Dirty/oily rags are stored in a metal container provided by the vendor. They are picked up and cleaned on a weekly basis.

Mechanics use drip pans to collect used oil and other spent fluids. This material is collected in 55 gal drums and a caged plastic cube which is later picked up by a local vendor, currently, REC Oil Service. The drums are stored in the garage on concrete away from any storm drains. This area is designated by floor markings and wall sings. The signs indicate where each type of fluid should be disposed of. Used batteries are stored inside the garage on a wooden skid. They are then returned for a core deposit.

2. VEHICLE FUELING

All vehicle fueling takes place at the city highway garage. The city's fueling facility is equipped with double walled fiberglass tanks with interstitial monitoring, double walled piping and suction pumps. The tanks are equipped with overfill protection and have overfill alarms installed in the leak monitoring system. The tanks are inspected every three years and registered annually with the state. Emergency spill procedures and contact numbers are listed on a sign at the pumps. Spill clean-up kits and commercial oil dry is also provided in the fueling area.

3. VEHICLE WASHING

The majority of city owned vehicles are washed at local commercial facilities. Currently, the city has a contract with both Apple Automotive(1090 Marbrook Dr.) and Mister Hotshine(2720 E Market St) for washing vehicles. Maintenance vehicles are washed inside over drains that are connected to the city's sanitary sewer system. There are indoor washing facilities at both the highway garage and the sewer maintenance department. A sign at the highway garage has been posted stating "NO OUTSIDE WASHING". The staff understands why we no longer regularly wash vehicles outside. Exceptions are made for oversized or disabled vehicles only if the street sweeper is used control run off and remove debris.





EMERGENCY PROCEDURE IN CASE OF FUEL SPILL OR FIRE A. USE EMERGENCY STOP BUTTON LOCATED BESIDE GARAGE DOOR **B. REPORT INCIDENT BY CALLING 911** C. REPORT LOCATION LISTED ABOVE D. USE SPILL KIT LOCATED BESIDE GARAGE DOOR






YORK CITY PROPERTY CHECKLIST FOR MS4

CITY PARKS AND OUTDOOR PARKING FACILITIES

*Check all inlets on property. All inlets should be clear and structurally sound.

*Check perimeters of all parks for potential sediment run-off areas.

*Check any creeks banks for erosion and report on vegetation condition

CITY BUILDINGS, STORAGE AREAS AND PARKING GARAGES

*Check all downspouts for possible blockage or connection to SSS

*Check all inlets on property. All inlets should be clear and structurally sound

*Check all floor drains inside of property. All drains should be connected to SSS

HIGHWAY GARAGE

1. Fueling Station

*Emergency Spill Procedure Signs-in place and legible

*Spill Kit and Absorption material -- in place

*Trash Receptacle -- empty

2. Main Yard

*Yard free of loose debris including salt

*Inlets at the rear of the shop clear and cleaned out

*Sand and cold patch under roof

3. Garage

*Drains clear of debris

*Fluid recycling area labeled and in working order

*Inlet in back garage clear and working

4. Salt Dome

*Inlet free of debris

*All salt inside of dome

*All trash picked up and loaded in dumpsters

Storm Sewer Inspection Report
Date:
Inlet / Drain / Manhole (circle one)
Location
Inlet Number
NO Problem
Problem:
Debris Blocking Inlet
Inlet Full
Main is Blocked
Manhole Cover Off
Inlet Needs Rebuilt
Other
Action Taken:
Employees:
J Johnson R Glover B Ruby
M Stell J Laughman A Murray
R Richards T Outen J Bean

Summary of Employee MS4 Trainings 2016-2017

Training of York City Employees will occur once a year, unless more training is needed. A sign in sheet is required to be signed by all trainees. The training consists of a PowerPoint presentation along with a short video produced by the North Central Texas Council of Governments. The Powerpoint presentation includes:

- 1. What MS4 stands for and other definitions
- 2. How MS4 came to York City and why
- 3. A rundown of each MCM in the permit with an explanation and examples of each
- 4. Noted the purpose of BMPs
- 5. Provided a shortened list of ALLOWABLE discharges with explanations for some of them
- 6. Gave examples of ILLICIT discharges and why they are as such
- 7. An entire slide of good housekeeping for City Employees and things to remember. Things we need to stay on top of in our daily routines.
- 8. Showed a list of the creeks that we are responsible for in our NPDES permit and their locations in the city.
- 9. Provided a map of those MS4 creeks with the outfalls documented on the map with an explanation of outfalls and photos of different types of outfalls.
- 10.Included a few slides with examples of illicit discharges that employees may encounter in the field.
- 11.Explained the different procedures to follow if they come across an illicit discharge in the field, complete with MS4 Coordinators' contact information including phone and email. Also provides DEPs' emergency number in case MS4 Coordinator is unavailable.
- 12.A reminder of the information needed to do a thorough investigation Date, Time, Location of illicit discharge and any photos that they are able to take. Stressed that documentation is the most important aspect of an investigation.
- 13.Provided some time for questions before showing the video.
- 14. The training video is named: "Illicit Discharge Detection and Elimination How to Spot and Report Stormwater Pollution" and is about 7 minutes long. This video is geared towards Municipal employees, showing them things to look for while out in the field.

York City MS4 Employee Training Program

The municipality has developed the following employee training program to further the goal of preventing or reducing the discharge of pollutants from municipal operations to the regulated MS4s. The program is designed to be inclusive of all employees that impact the management of the municipality's MS4 Program and Maintenance. Training topics will include operation, inspection, maintenance and repair activities associated with any of the municipal operations / facilities identified under the municipality's MS4 facility and activity inventory.

Training will occur annually and be based upon the frequency interval identified in the subsequent charts. Training will be documented in writing and included in periodic reports. Document shall include the date, time, location, attendance list, and topic of the training.

The training requirements of this BMP can be met in various ways. Training can be formal or informal; conducted on-site or off-site; conducted on-the-job or during dedicated training periods; conducted one-on-one or in a group setting (including with staff from other MS4s); conducted by municipal staff or consultants/volunteers; conducted via oral presentations/instructions and/or via written materials (e.g., SOP's, guidance manuals, tests).

The City will identify one of its employees to be the manager of its MS4 Employee Training Program. This employee's responsibilities should include scheduling training activities, tracking attendance, and maintaining records of completed training. Every effort should be made to clearly document all training. Desirable, but not required, training records include sign-in rosters, materials from presentations, or course completion certificates. Detailed records will assist the Municipality in demonstrating that it is meeting the goals of MCM 6 BMP 3.

TRAINING	SIGN-IN SHEET		
Project:	MS4 Stormwater Training	Meeting Date:	3/06/2017
Facilitator:	Lettice Brown	Place/Room:	Station 9

Name (please print) Department/Platoon DARRY/ MAXHELD ETRE KRAIG SPANGLER EIRE / A Michael Zales Fire/A Charles E Strager Sr Fir /A Johnathan Brown Fire 14 Shawn Caruso File/A . Kevin Pflaum File / EDWIN D. HAMILTON FINE A' KEITH RAMSAY FIRE "A" EMIN SMANSUN FIDE "A" FIRE H William SIGECER Kevin Holtzapple Fire "A RANDY RANGAUSEr

Project:	MS4 Stormwater Training	Meeting Date: 2/23/2017	
Facilitator:	Lettice Brown	Place/Room: Station 2	
Name (pleas	e print)	Department/Platoon	····
SHAWN	FIRESTONE	FIRE 3	
DARL	KINL	PIRA/B	
Donald	Newcomer	Fire / B	
Tran	Flanscha	Fore/B	
Adam	Smith	FIRE /B	
ERIK	SUMANSON	FIRE/A	
KEL	SLIAN-2	Fort I B	
Kevi	n Pflaum	FIRE (A	
GRE	GORY S. ALTLAND	Fire/B	
21; fto	N Frederick	Fire B	
KEITH K	AMSAU	FIRE A	
March att	•	Ere 13	
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TRAINING SIGN-IN SHEET

Project:	MS4 Stormwater Training	Meeting Date:	2/28/2017
Facilitator:	Lettice Brown	Place/Room:	Station 9

Name (please print)	Department/Platoon
Steven Bowman	C
Glenn Jansen JR	C
Robert BIEVENOUN	C
Allen Fuentes	C
Jeff Miller	FD/FR
Gu Kinas	FOLFP
DAVE FERGUSCON	C
Rolando Sucrez	С
Chris Grove	C
Matt Hoblitzell	C
Jonathan Spencer	C
1000 STOUGH	<u> </u>
MARK J Bowman	<
Timothy S. Golden	<u> </u>
/	

Facilitator:	Lettice Brown	Place/Room:	Station 9
Project:	MS4 Stormwater Training	Meeting Date:	2/24/2017
TRAINING	SIGN-IN SHEET		

Name (please print) Department/Platoon KRAEG SPANGLER FIRE IA eve Bowman ire GARY Landis Kevin Pflaum re renshaw Illiam tive Fire hony Caruso FI KAShia Malach" Cochran Sawyer Brandon Fire \bigcirc Byan Smallwood Hire Nill Collins 1-,1e Rose

MEETING SIGN-IN SHEET

Project:	Managers Meeting Training	Meeting Date:	March 7 2017
Facilitator:	Lettice Brown	Place/Room:	City Hall Chambers

Name (please print)	Department
JIM GRUSP	PW
Q. Kim BRACEY	MAYOR'S OFFICE
Chaz Green	PW
Carol Downs Brady	Treasurer
Joe Befcoat	Treasurer
Mamika H. Rascoe	IPYZ)
VERONICA CHANEZ	WWTP-MIPP
Chere Almne	Finance
Wanda Ruffin	Finance
Monica Krugen	Health
CRAIG WART	HEALTH
BarbaraKovacs	iterIth
3. BIFFACE	DECD
Nicole Davis	DECD
Mary Shoth	Parking
Ikbro Prisch	Mayor
EDDWING WASHINGTON	MAYOR
THOMAS A RAM	BALAR

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MEETING	SIGN-IN SHEET	
Project:	Managers Meeting Training	Meeting Date: March 7 2017
Facilitator:	Lettice Brown	Place/Room: City Hall Chambers
Name (pleas	se print)	Department
<u> </u>	TT.MILLAR	W.W.T.R.
Wits	VAMILY .	Pruce
Tim	Uthy	Police
Jas	on Saba	Solicitor
BIANDA	V T. ANDEKSON	WWTP
Cass	ie Dennis	Public Works
Jup	I chanvazir	Controller's office
MIKE SH	ANABROOK-	FIRE/RESCUE
CARD DE	AZDONFT	FIZIZE
DAVIO	Michteli	File/ Rescue
STE	YER BUFFINGTON	PPZ
JA	mes Crosley	Housing
AliceAl	nne Frost	Controller's office
	n K	J.T.
Davre	2 P. Andorph. T	Parí
Franci	ne Jackson	Business Administrator
Michae	1 Diversy	N ()
FRANK	LIE CAMPAGNE	WWTP

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Project:	Managers Meeting Training	Meeting Date:	March 7 2017
Facilitator:	Lettice Brown	Place/Room:	City Hail Chambers
Name (pleas	se print)	Department/Role	
Hidalas	Diaz-	WNTP Publ.	Makes / Specificor
Most	- House	Ringen	1 lbak 1
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Stormwater Presentation Quick Sheet

March 7 2017

- Clean water act DEP's MS4 Program
- General Permit (GEN-13) from DEP
 - New requirements March 2018
- Minimum Control Measures
 - o Public Education and Outreach
 - Public Involvement and Participation
 - o Illicit Discharge Detection and Elimination
 - Construction site runoff control
 - Post-Construction Management
 - Pollution Prevention for Municipalities
- Authorized Discharge Examples
 - o Firefighting activities
 - 0 Irrigation water
 - Diverted stream flows
 - o Air conditioning condensation
- Unauthorized Discharge Examples
 - Discharges from Construction, Industrial and Food Service activities that lead to contamination
 - o Discharges containing hazardous pollutants or toxins
- Best Management Practices for Municipalities
 - Eliminate trash and other objects from getting into storm drains
 - Wash trucks and sweeper indoors
 - o Clean spills up with absorbent and sweep up
 - Keep chemicals in covered areas
 - Properly label storage containers
 - Inspect storage containers for leaks
 - o Repair leaks ASAP
 - What's in our MS4 Area
- What to do if you locate an Illicit Discharge
 - o Document Date, Time and Location of discovery
 - o Call or email MS4 Coordinator with information and photos
 - o Call 911 if it is an emergency and an immediate hazard to safety of public
- Contact Information
 - Lettice Brown (717-324-6532 (cell)
 - <u>lbrown@yorkcity.org</u>
 - o DEP Emergency Line: 866-825-0208

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Student Records 103 Rows, Generated by Roy Kohler 3/9/2017 8:44 AM Eastern Standard Time

semame	Last Name	First Name	Course Number	Section Number	Course Name	Start Date	End Date	Earned Hours	Max Hours	Status ▼	Score
baez	Baez	Andy	17-01	2017	MS4 Stormwater	2/3/2017 10:47:12 AM	2/3/2017 11:03:34 AM	1.000	1.000	Pass	5.00/5.00 - 100.0%
Henty	Henty	Allen	17-01	2017	MS4 Stormwater	2/1/2017 7:33:44 AM	2/1/2017 7:44:54 AM	1.000	1.000	Pass	5.00/5.00 - 100.0%
Riedy	Riedy	Andrew	17-01	2017	MS4 Stormwater	1/31/2017 8:13:11 AM	1/31/2017 2:28:35 PM	1.000	1.000	Pass	5.00/5.00 - 100.0%
Sable	Sable	Alex	17-01	2017	MS4 Stormwaler	2/7/2017 9:21:33 PM	2/7/2017 9:39:45 PM	1.000	1.000	Pass	5.00/5.00 - 100.0%
Shaffer	Shaffer	Andrew	17-01	2017	MS4 Stormwater	2/9/2017 12:48:12 PM	2/9/2017 1:00:22 PM	1.000	1.000	Pass	5.00/5.00 - 100.0%
BEastman	Eastman		17-01	2017	MS4 Stormwater	2/3/2017 1:27:28 PM	2/5/2017 8:38:24 AM	 1.000	1.000	Pass	3.00/5.00 - 60.0%
pengle	Engle	Bradley	17-01	2017	MS4 Stormwater	2/1/2017 7:37:10 AM	2/1/2017 7:47:48 AM	1.000	1.000	Pass	5.00/5.00 - 100.0%
BL.ehman	Lehman	Brian	17-01	2017	MS4 Stormwater	1/30/2017 3:19:17 AM	1/30/2017 3:35:33 AM	1.000	1.000	Pass	4.00/5.00 - 80.0%
BMcBride	McBride	Blake	17-01	2017	MS4 Stormwater	1/30/2017 6:55:56 PM	1/30/2017 7:39:35 PM	1.000	1.000	Pass	5.00/5.00 + 100.0%
BPraster	Praster	Benjamin	17-01	2017	MS4 Stormwater	2/7/2017 10:40:51 AM	2/17/2017 11:18:05 PM	1.000	1.000	Pass	5.00/5.00 - 100.0%
BSeelig	Seelig	Barton	17-01	2017	MS4 Stormwater	2/1/2017 10:22:17 AM	2/1/2017 10:36:51 AM	1.000	1.000	Pass	5.00/5.00 - 100.0%
BSmith	Smith	Ben	17-01	2017	MS4 Stormwater	1/30/2017 3:39:59 AM	1/30/2017 3:54:39 AM	1.000	1.000	Pass	4.00/5.00 - 80.0%
CAmes	Ames	Corey	17-01	2017	MS4 Stormwater	2/1/2017 8:18:30 AM	2/1/2017 8:39:48 AM	1,000	1.000	Pass	4.00/5.00 - 80.0%
CCrumpton	Crumpton	Chuck	17-01	2017	MS4 Stormwater	2/5/2017 2:39:55 AM	2/5/2017 2:41:04 AM	1.000	1.000	Pass	5.00/5.00 - 100.0%
CGlatfel	Glatfelter	Clayton	17-01	2017	MS4 Stormwater	2/1/2017 8:22:29 AM	2/1/2017 8:36:02 AM	1.000	1.000	Pass	4.00/5.00 - 80.0%

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CHusted	Husted	Christopher	17-01	2017	MS4 Stormwater	1/30/2017 2:14:28 AM	1/30/2017 2:31:35 AM	1.000	1.000	Pass	5.00/5.00 • 100.0%
CLosty	Losty	Craig	17-01	2017	MS4 Stormwater	1/31/2017 10;55:15 AM	1/31/2017 11:28:55 AM	1.000	1.000	Pass	4.00/5.00 - 80.0%
CMartin	Martin	Christopher	17-01	2017	MS4 Stormwater	2/2/2017 10:08:24	2/2/2017 10:12:25	1.000	1.000	Pass	5.00/5.00 ~100.0%
CMedeiros	Medeiros	Christian	17-01	2017	MS4 Stormwater	2/2/2017 7:06:38 AM	2/2/2017 7:26:55 AM	1.000	1.000	Pass	5.00/5.00 - 100.0%
CPerry	Perry	Christopher	17-01	2017	MS4 Stormwater	2/2/2017 8:02:54 AM	2/2/2017 8:12:46 AM	1.000	1.000	Pass	4.00/5.00 - 80.0%
CRoosen	Roosen	Christopher	17-01	2017	MS4 Stormwater	1/30/2017 4:06:02 AM	1/30/2017 4:15:16 AM	1.000	1.000	Pass	5.00/5.00 - 100.0%
Cthompson	Thompson	Christopher	17-01	2017	MS4 Stormwater	2/5/2017 7:42:11 AM	2/5/2017 8:26:11 AM	1.000	1.000	Pass	4.00/5.00 - 80.0%
DAikey	Aikey	Daniel	17-01	2017	MS4 Stormwater	2/6/2017 4:20:14 PM	2/6/2017 4:35:09 PM	1. 000	1.000	Pass	5.00/5.00 - 100.0%
DCraven	Craven	Daniel	17-01	2017	MS4 Stormwater	1/31/2017 9:32:32 AM	1/31/2017 9:47:53 AM	1.000	1.000	Pass	5.00/5.00 - 100.0%
DGehron	Gehron	Dustin	17-01	2017.	MS4 Stormwater	2/3/2017 11:17:15 PM	2/8/2017 9:14:01 PM	1.000	1,000	Pass	5.00/5.00 - 100.0%
DKiing	Kling	Daniel	17-01	2017	MS4 Stormwater	2/10/2017 12:03:13 AM	2/10/2017 12:12:17 AM	1.000	1.000	Pass	4.00/5.00 - 80.0%
DLentz	Lentz	Daniel	17-01	2017	MS4 Stormwater	1/31/2017 9:32:59 AM	1/31/2017 9:45:51 AM	1.000	1.000	Pass	4.00/5.00 - 80.0%
DMillhou	Milihouse	Derrick	17-01	2017	MS4 Stormwater	1/28/2017 5:10:19 AM	1/28/2017 5:47:49 AM	3.000	1.000	Pass	3.00/5.00 - 60.0%
EKleynen	Kleynen	Erik	17-01	2017	MS4 Stormwater	2/9/2017 7:40:03 AM	2/9/2017 8:05:14 AM	1.000	1.000	Pass	3.00/5.00 - 60.0%
fclark	; Clark	Frank	17-01	2017	MS4 Stormwater	2/1/2017 7:50:23 AM	2/1/2017 8:01:08 AM	1.000	1.000	Pass	4.00/5.00 -80.0%
GKnauer	Knauer	Glenn	17-01	2017	MS4 Stormwater	1/31/2017 11:06:22 AM	1/31/2017 11:18:09 AM	1.000	1.000	Pass	4.00/5.00
GSchick	Schick	Greg	17-01	2017	MS4 Stormwater	1/31/2017 7:13:38 PM	1/31/2017 7:29:30 PM	1.000	1.000	Pass	5.00/5.00 - 100.0%
		ender och der statisticken	· ·			I					,,,,,,,

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JColahan	Colahan	Joseph	17-01	2017	MS4 Stormwater	1/31/2017 4:12:33 AM	2/5/2017 4:47:03 AM	1.000	1.000	Pass	4.00/5.00 - 80.0%
JFells	Fells	James	17-01	2017	MS4 Stormwater	2/14/2017 10:08:57 AM	2/14/2017 10:30:01 AM	1.000	1.000	Pass	4.00/5.00 - 80.0%
JFultz	Fultz	Jeremy	17-01	2017	MS4 Stormwater	2/7/2017 7:15:56 -AM	2/7/2017 7:22:48 	1.000	1.000	Pass	4.00/5.00 - 80.0%
JGillila	Giliiland	Jeffrey	17-01	2017	MS4 Stormwater	2/8/2017 11:37:37 AM	2/8/2017 12:00:48 PM	1.000	1.000	Pass	3.00/5.00 - 60.0%
JHattere	Hatterer	Jonathan	17-01	2017	MS4 Stormwater	2/1/2017 4;54:08 PM	2/1/2017 4:59:58 PM	1.000	1.000	Pass	4.00/5.00 - 80.0%
jhorvath	Horvath	Jar e d	17-01	2017	MS4 Stormwater	1/31/2017 2:24:10 AM	1/31/2017 2:42:34 AM	1.000	1.000	Pass	5.00/5.00 - 100.0%
JHuncher	Huncher	John	t 7-0 1	2017	MS4 Stormwater	2/28/2017 1:04:28 AM	2/28/2017 1:11:27 AM	1.000	1.000	Pass	5.00/5.00 - 100.9%
JJay	Jay	Jason	17-01	2017	MS4 Stormwater	1/30/2017 3:53:13 AM	1/30/2017 4:09:12 AM	1.000	1.000	Pass	4.00/5.00 - 80.0%
JKnarr	Knarr	James	17-01	2017	MS4 Stormwater	2/4/2017 10:54:15 AM	2/4/2017 11:13:19 AM	1.000	1.000	Pass	3.00/5.00 - 60.0%
JMain	Main	Justin	17-01	2017	MS4 Stormwater	2/3/2017 2;11:21 PM	2/3/2017 2:13:26 PM	1.000	1.000	Pass	4.00/5.00 - 80.0%
JMayer	Mayer	Jeremy	17-01	2017	MS4 Stormwater	2/4/2017 11:15:51 AM	2/4/2017 11:30:11 AM	1.000	1.000	Pass	5.00/5.00 - 100.0%
jreisenw	Reisenweber	' John	17-01	2017	MS4 Stormwater	2/25/2017 8:33:21 AM	2/25/2017 12:20:10 PM	1.000	1.000	Pass	4.00/5.00 - 80.0%
JVeater	Veater	John	17-01	2017	MS4 Stormwater	1/31/2017 10:31:02 AM	1/31/2017 10:40:16 AM	1.000	1.000	Pass	3,00/5.00 - 60.0%
KHower	Hower	Kyle	17-01	2017	MS4 Stormwater	2/20/2017 8:34:32 AM	2/20/2017 9:45:15 AM	1.000	1,000	Pass	4.00/5.00 - 80.0%
KPitts	Pitts	Kyle	17-01	2017	MS4 Stormwater	3/6/2017 10:51:26 AM	3/6/2017 11:00:20 AM	1.000	1.000	Pass	3.00/5.00 - 60.0%
LLawrenc	Lawrence	Larry	17-01	2017	MS4 Stormwater	2/2/2017 5:19:36 PM	2/7/2017 5:45:39 PM	1.000	1.000	Pass	3.00/5.00 - 60.0%
MAdzema	Adzema	Michael	17-01	2017	MS4 Stormwater	1/31/2017 1:09:08 PM	1/31/2017 1:22:39 PM	1.000	1.000	Pass	3.00/5.00 -60.0%

Report

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MDavis	Davis	Michael	17-01	2017	MS4 Stormwater	1/31/2017 7:12:24 PM	1/31/2017 7:26:59 PM	1.000	1.000	Pass	5.00/5.00 - 100.0%
Mirvín	i Irvin	Matthew	17-01	2017	MS4 Stormwater	2/10/2017 12:03:52 AM	2/10/2017 12:11:28 AM	1.000	1.000	Pass	5.00/5.00 - 100.0%
MLeitzel	Leitzel	Matthew	17-01	2017	MS4 Stormwater	2/27/2017 11:53:10 AM	2/27/2017 12:19:47 PM	1.000	1.000	Pass	3.00/5.00 - 60.0%
MMeeker	Meeker	Michael	17-01	2017	MS4 Stormwater	1/30/2017 2:40:39 AM	1/30/2017 2:5 5 :55 AM	1.000	1.000	Pass	5.00/5.00 - 100.0%
MReinert	Reinert	Michael	17-01	2017	MS4 Stormwater	2/1/2017 7:47:22 AM	2/1/2017 8:01:50 AM	1.000	1,000	, Pass	5.00/5.00 - 100.0%
mrykowsk	Rykowski	Michael	17-01	2017	MS4 Stormwater	2/17/2017 9:58:55 AM	3/3/2017 7:37:22 AM	1.000	1.000	Pass	4.00/5.00 - 80.0%
mtunali	Tunall	Mathew	17-01	2017	MS4 Stormwater	1/30/2017 7:16:10 PM	1/30/2017 7:37:48 PM	1,000	1.000	Pass	4.00/5.00 - 80.0%
NFigge	Figge	Nicholas	17-01	2017	MS4 Stormwater	2/4/2017 3:26:49 AM	2/4/2017 3:42:23 AM	1.000	1.000	Pass	5.00/5.00 - 100.0%
ORiccobe	Riccobono	Orazio	17-01	2017	MS4 Stormwater	1/31/2017 10:16:22 AM	1/31/2017 10:29:01 AM	1.000	1.000	Pass	4.00/5.00 - 80.0%
PDehart	Dehart	Paul	17-01	2017	MS4 Stormwater	1/30/2017 12:52:41 PM	1/31/2017 9:35:27 AM	1.000	1.000	Pass	3.00/5.00 - 60.0%
RBlymier	Blymier	Ritchie	17-01	2017	MS4 Stormwater	3/1/2017 9:18:16 AM	3/1/2017 9:38:21 AM	1.000	1.000	Pass	4.00/5.00 - 80.0%
RGoshen	Goshen	Robert	17-01	2017	MS4 Stormwater	1/31/2017 7:98:12 AM	1/31/2017 7:30:35 AM	1.000	1.000	Pass	4.00/5.00 - 80.0%
RKehler	Kehler	Richard	17-01	2017	MS4 Stormwater	2/1/2017 10:24:46 AM	2/1/2017 10:33:31 AM	1.000	1.000	Pass	5.00/5.00 - 100.0%
rkohler	Kohler	Roy	17-01	2017	MS4 Stormwater	1/27/2017 1:31:00 PM	1/27/2017 1:43:45 PM	1.000	1.000	Pass	5.00/5.00 - 100.0%
RNestor	Nestor	Roger	17-01	2017	MS4 Stormwater	2/13/2017 12:33:24 PM	2/13/2017 12:42:35 PM	1.000	1.000	Pass	5.00/5.00 - 100.0%
SAderhol	Aderhold	Stephen	17-01	2017	MS4 Stormwater	2/1/2017 8:06:50 AM	2/1/2017 8:24:09 AM	1,000	1,000	Pass	3.00/5.00 - 50.0%
SButler	Butler	Steven	17-01	2017	MS4 Stormwater	2/8/2017 1:12:45 PM	2/8/2017 1:22:57 PM	1.000	1.000	Pass	3.00/5.00 - 60.0%
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SHaggarty	Haggarty	Sean	17-01	2017	MS4 Stormwater	2/7/2017 10:47;49 AM	2/7/2017 10:52:02 AM	1.000	1.000	Pass	5.00/5.00 - 100.0%
SHansen	Hansen	Sherri	17-01	2017	MS4 Stormwater	2/1/2017 7:15:04 AM	2/1/2017 7:31:51 AM	1.000	1.000	Pass	5.00/5.00 - 100.0%
SKelly	Kelly	Shawn	17-01	2017	MS4 Stormwater	1/31/2017 9:02:08 PM	1/31/2017 9:15:43 PM	1.000	1.000	Pass	3.00/5.00 - 60.0%
SNadzom	Nadzom	Scott	17-01	2017	MS4 Stormwater	2/1/2017 10:44:00 AM	2/1/2017 10:47:47 AM	1.000	1.000	Pass	5.00/5.00 - 100.0%
spickel	Pickel	Steven	17-01	2017	MS4 Stormwater	1/31/2017 3:24:38 PM	1/31/2017 3:32:34 PM	1.000	1.000	Pass	5.00/5.00 - 100.0%
SRosier	Rosier	Sean	17-01	2017	MS4 Stormwater	2/1/2017 7:16:31 AM	2/1/2017 7:35:47 AM	1.000	1.000	Pass	4.00/5.00 - 80.0%
SRoss	Ross	Scott	17-01	2017	MS4 Stormwater	1/31/2017 2:08:14 AM	1/31/2017 2:27:40 AM	1.000	1.000	Pass	4.00/5.00 - 80.0%
tbankert	Bankert	Тгоу	17-01	2017	MS4 Stormwater	2/2/2017 4:33:05 PM	2/2/2017 4:48:07 PM	1.000	1.000	Pass	4.00/5.00 - 80.0%
TClymer	Clymer	Timothy	17-01	2017	MS4 Stormwater	1/31/2017 9:58:22 AM	1/31/2017 10:05:53 AM	1,000	1,000	Pass	3,00/5.00 - 60.0%
tpitts	Pitts	Tiffany	17-01	2017	MS4 Stormwater	1/31/2017 9:27:25 AM	1/31/2017 9:35:44 AM	1.000	1,000	Pass	4.00/5.00 - 80.0%
TShermey	Shermeyer	Timothy	17.01	2017	MS4 Stormwater	2/3/2017 7:06:41 AM	2/3/2017 8:05:48 AM	1.000	1.000	Pass	3.00/5.00
TSowers	Sowers	Travis	17-01	2017	MS4 Stormwater	1/31/2017 3:44:08 PM	1/31/2017 4:00:09 PM	1.000	1.000	Pass	4.00/5.00 - 80.0%
TUtley	Utley	Timothy	17-01	2017	MS4 Stormwater	2/6/2017 9:39:22 AM	2/6/2017 10:01:25 AM	1.000	1.000	Pass	4.00/5.00 + 80.0%
VMonte	Monte	Vincent	17-01	2017	MS4 Stormwater	2/10/2017 12:04:00 AM	2/10/2017 12:12:56 AM	1.000	1.000	Pass	4.00/5.00 - 80.0%
WWentz	Wentz	William	17-01	2017	MS4 Stormwater	1/28/2017 6:15:47 AM	1/31/2017 3:25:56 PM	1.000	1.000	Pass	5.00/5.00 - 100.0%
zpelton	Pelton	Zach	17-01	2017	MS4 Stormwater	2/7/2017 10:53:14 AM	2/7/2017 11:01:04 AM	1.000	1,000	Pass	3.00/5.00 + 60.0%
AFetrow	Fetrow	Anthony	17-01	2017	MS4 Stormwater	•	: : :	0.000	1.000	In Progress	0.00/5.00 - 0.0%

BMayberry	Mayberry	Bryon	17-01	2017	MS4 Stormwater	÷	0.000	1.000	In Progress	0.00/5.00 - 0.0%
DDavis	Davis	Donald	17-01	2017	MS4 Stormwater		0.000	1.000	ln Progress	0.00/5.00
DHartman	Hartman	Derek	17-01	2017	MS4 Stormwater	2/25/2017 1:47:35 PM	0.000	1.000	in Progress	4.00/5.00 - 80.0%
	*		· · · · · · · · · · · · · · · · · · ·		M\$4		0.000	1 000	រព	0.00/5.00
DWoodring	Woodring	Dean	17-01	2017	Stormwater				Progress	-0.0%
GRipley	Ripley	George	17-01	2017	MS4 Stormwater		0,000	1.000	ln Progress	0.00/5.00 - 0.0%
jbowman	Bowman	Jan	17-01	2017	MS4 Stormwater		0.000	1.000	in Progress	0.00/5.00 - 0.0%
JPhillips	Phillips	Joshua	17-01	2017	MS4 Stormwater	2/9/2017 2:19:32 AM	0.000	1.000	ln Progress	4.00/5.00 • 80.0%
JSpence	Spence	Jeffrey	17-01	2017	MS4 Stormwater		0.000	1.000	in Progress	0.00/5.00 • 0.0%
kcollins	Collins	Кајі	17.01	2017	MS4 Stormwater		0,000	1.000	In Progress	0,00/5.00 - 0.0%
MEbersol	Ebersole	Michael	17-01	2017	MS4 Stormwater		0.000	1.000	In Progress	0.00/5.00 - 0.0%
MLuchko	Luchko	Matthew	17-01	2017	MS4 Stormwater		0.000	1.000	In Progress	0.00/5.00 - 0.0%
MMcCartn	McCariney	Mark	17-01	2017	MS4 Stormwater		0.000	1,000	in Progress	0.00/5.00 - 0.0%
PThorne	Thorne	Paul	17-01	2017	MS4 Stormwater		0.000	1.000	In Progress	0.00/5.00 - 0.0%
RBarth	Barth	Richard	17-01	2017	MS4 Stormwater	3/1/2017 3:03:48 PM	0.000	1.000	ln Progress	0.00/5.00 - 0.0%
rdickers	Dickerson	Rhoda	17-01	2017	MS4 Stormwater		0.000	1.000	in Progress	0.00/5.00 - 0.0%
rsmith	Smith	Renee	17-01	2017	MS4 Stormwater		0.000	1.000	In Progress	0.00/5.00 -0.0%
SHooper	Hooper	Sheldon	17-01	2017	MS4 Stormwater	r]	0.000	1.000	In Progress	0.00/5.00 - 0.0%
swoodyar	Woodyard	Serena	17-01	2017	MS4 Stormwate	بي بندي من المراجع المراجع المراجع المراجع المراجع المراجع	0.000	1.000	in Progress	0.00/5.00 - 0.0%
tgroff	Groff	Tina	17-01	2017	MS4 Stormwate		0,000	1.000	In Progress	0.00/5.00 3 - 0.0%
Wkahiey	Kahley	Wesley	17-01	2017	MS4 Stormwate	r	0.000	1.000	In Progres	0.00 /5.0 0 s - 0.0%

Sign in Sheet for Training December 2016

Parks and Rec

Bruce Buchanan

Paul Hibner

Pete Rodriquez

Melvin Boanes

George Jennings

Andy Mullins

Joel Collier

Ray Smith

<u>Highway</u>

John Bean

Mark Stell

Riccardo Richards

Bill Ruby

TRAINING SIGN-IN SHEET

Project:	Stormwater Training Presentation	Meeting Date:	1/20/2017
Facilitator:	Lettice Brown	Place/Room:	City Hall Council Chambers

Name	Department
Ralph Glover Jr	Highway
Jehu Johnson	Highway
Kathy Arnold	Parks/Rec
Keith Kunkle	Fleet Maintenance
John Heprich	Fleet Maintenance
David Shirey	Parks/Rec
Albert Murray	Highway
Chris Maldonado	Parks/Rec
Jeff Laughman	Highway

Wednesday December 14 2016

Stormwater training for city employee's attendance sheet:

Parks and Recreation Department: Bruce Buchanan Paul Hibner Pete Rodriquez Melvin Boanes George Jennings Andy Mullins Joel Collier Ray Smith

Highway Department: John Bean Mark Stell Riccardo Richards Bill Ruby Video used for training:

https://www.youtube.com/watch?v=hnXMaImmcKo





MS4 STORMWATER PRESENTATION

BY LETTICE BROWN MS4 COORDINATOR



DEFINITIONS

MS4 – MUNICIPAL SEPARATE STORM SEWER SYSTEM

STORMWATER – WATER FROM PRECIPITATION THAT FLOWS ACROSS THE GROUND AND PAVEMENT WHEN IT RAINS OR WHEN SNOW AND ICE MELT.

STORM DRAINS – WHERE STORMWATER RUNS INTO, CAN BE A BASIN OR WHERE IT GOES INTO UNDERGROUND PIPES, CAN BE AN ENCLOSED PIPE OR AN OPEN CHANNEL.

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OUTFALL – A DISCHARGE POINT OF STORM WATER INTO A BODY OF WATER





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YORK CITY BOUNDARY WITH OUTFALLS





TYPES OF OUTFALLS



ILLICIT DISCHARGE EXAMPLES



59 E. Market Street



223 E. Chestnut Street *water carrying excessive sediment



223 E. Chestnut Street 2 *sediment build up

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- EMAIL: LBROWN@YORKCITY.ORG
- DEP EMERGENCY LINE 866-825-0208









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Sign in Sheet for Managers Meeting

12/1/2016

James Gross - Public Works Director India Banks – Operations Manager Chaz Green – Deputy Director Cassie Dennis – Environmental Services Supervisor Thomas Landis – Highway and Parks and Rec. Superintendent Dave Rudolph – Sewer Maintenance Supervisor Michelle Cocklin - Secretary Lettice Brown





MS4 STORMWATER PRESENTATION

BY LETTICE BROWN MS4 COORDINATOR



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YORK CITY BOUNDARY WITH OUTFALLS





TYPES OF OUTFALLS



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NEXT MEETING JULY 14, 2016 @ 2:00 P.M. At C.S. DAVIDSON

OPENING

A Municipal Separate Storm Sewer System (MS4) Permit Task Force meeting was held April 14, 2016 at 2:00 p.m. at 101 South George Street, Room 205. The purpose of the task force is to ensure compliance with the City of York's MS4 National Pollution Discharge Elimination (NPDES permit. The Director of Public Works, James E. Gross, chaired the meeting. In attendance were:

Director of Public Works, James E. Gross City Engineer, Jeff Shue, C.S. Davidson, Inc. Engineering Technician, Derek Rinaldo, C.S. Davidson, Inc. Environmental Bureau Manager, Cassie Dennis Pretreatment Permit and Compliance Manager, Veronica Chavez Supervisor of Sanitary Sewer Maintenance, Jack Longstreet

MCM Written Plan Review

MCM written plans require an annual review and update. Plans were distributed and assigned as follows: MCM 1 and 2, Cassie Dennis; MCM 3, Veronica Chavez and Jack Longstreet; MCM 4 and 5, Permits, Planning and Zoning to be distributed by Jim Gross; MCM 6, Michael Smith (new Highway Superintendent to begin employment in early May) and Jim Gross. Staff will review and verify the written plans and submit changes to Derek Rinaldo. The MCM 3 plan was updated by Veronica Chavez, and submitted, during the meeting.

Permit Cycle BMP Inspections

C. S. Davidson, Inc. completed BMP inspections located in Quadrant 1. The area covers the City's northwest area. Some sites are non-complaint. Staff discussed the following items related to non-compliance: the need for enforcement; benefits of meeting on site with the owner/tenant for inspections, and notification.

MS4 Module on CSDatum

C. S. Davidson staff demonstrated the new MS4 module on their client information web portal. The MS4 module has mapping and document components. MS4 MCM requirements can be accessed. Municipal information can be uploaded to the site, and some querying capabilities are present. The portal will help compile annual reports. Different permission levels can be set for each invited user.

Annual Report

Please submit annual report items to Derek Rinaldo.

Construction and Demolition Projects

The relationship between construction, land development plans, and demolition projects was discussed. The recent erosion and sediment control complaints related to structure demolitions were reviewed. The events and lessons learned have prompted Permits, Planning and Zoning staff to evaluate how these activities can best be addressed.

ADJOURNMENT

The meeting adjourned at approximately 3:00 p.m.

MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) PERMIT TASK FORCE Summary of Meeting –July 14, 2016

NEXT MEETING Thursday, October 13, 2016 @ 2:00 P.M.

At York City Hall

OPENING

A Municipal Separate Storm Sewer System (MS4) Permit Task Force meeting was held July 14, 2016 at 2:00 p.m. at CS Davidson, 50 North Duke Street, 4th floor conference room. The purpose of the task force is to ensure compliance with the City of York's MS4 National Pollution Discharge Elimination (NPDES) permit. The Director of Public Works, James E. Gross, chaired the meeting. In attendance were:

Director of Public Works, James E. Gross City Engineer, Jeff Shue, C.S. Davidson, Inc. Deputy Director, Permits Planning & Zoning, Steve Buffington Engineering Technician, Derek Rinaldo, C.S. Davidson, Inc. Environmental Bureau Manager, Cassie Dennis Planner, Nicole Gallup Pretreatment Permit and Compliance Manager, Veronica Chavez Supervisor of Sanitary Sewer Maintenance, Jack Longstreet Zoning Officer, Cheryl Rascoe

Jordan Goode, CS Davidson, was in attendance to demonstrate CSDatum.

Annual Report

The annual report was submitted by the deadline. The Pennsylvania Department of Environmental Protection (PADEP) is now reviewing annual report submissions using a check list. Derek Rinaldo will issue a year-end annual report review letter after PADEP's report is received.

MS4 Module on CSDatum

CS Davidson staff demonstrated the new MS4 module on their client information web portal. The MS4 module has mapping and document components. MS4 MCM requirements can be accessed. Municipal information can be uploaded to the site, and some querying capabilities are present. The portal will help compile annual reports. Different permission levels can be set for each invited user. Users can upload items throughout the year. The group walked through the outfall and BMP inspection modules in particular, as well as document uploading and data storage. It was suggested that an 'attachment button' be added adjacent to the 'photo button' in the outfall inspection section to allow analytical reports or other documents to be linked to the appropriate outfall.

ADJOURNMENT

The meeting adjourned at approximately 3:00 p.m.

<mark>NEXT MEETING</mark>

JANUARY 19, 2017 2:00 P.M. PULLO CONFERENCE ROOM

OPENING

A Municipal Separate Storm Sewer System (MS4) Permit Task Force meeting was held November 17, 2016 at 2:00 p.m. in City Hall located at 101 S. George Street, 2nd floor conference room. The purpose of the task force is to ensure compliance with the City of York's MS4 National Pollution Discharge Elimination (NPDES) permit. The Director of Public Works, James E. Gross, chaired the meeting. In attendance were:

Director of Public Works, James E. Gross City Engineer, Jeff Shue, C.S. Davidson, Inc. Deputy Director, Permits Planning & Zoning, Steve Buffington Engineering Technician, Derek Rinaldo, C.S. Davidson, Inc. Environmental Bureau Manager, Cassie Dennis Planner, Nicole Gallup Pretreatment Permit and Compliance Manager, Veronica Chavez Zoning Officer, Cheryl Rascoe Operations Manager, India Banks Acting Highway Superintendent, Tom Landis MS4 Coordinator, Lettice Brown Assistant Director of Public Works, Chaz Green

MS4 ASSIGNMENT CHANGES

MCM.1 – Public Education and Outreach has been assigned to the MS4 Coordinator. It was mentioned that there is a newsletter that goes out to the public about once a year, and that they have done sewer bill inserts in the past. It is up to the MS4 Coordinator to plan and either continue with this or develop other ideas for this area. Cassie is still going to do the school part of the outreach program. India was asked by Jim if Lettice could be trained and have access to update the city's website. India says she will look into it and see when IT can train her.

MCM.2 – Public Involvement was also given as a responsibility to MS4 Coordinator. She was guided in making an agenda for public events and considering the ones they have had in the past.

MCM.3 – IDDE was assumed to be the MS4 Coordinators primary responsibility. Derek stated that it will be imperative for Lettice to ensure the maps are as up to date as possible.

MCM.4 – Construction Site Stormwater Runoff Control – This will remain with the York County Conservation District. It was suggested that Cheryl will do her necessary duties to ensure any construction activities have the permits needed, but when the project is complete the MS4 Coordinator should sign off. This will signal that the project is complete and is now covered under MCM 5. The MS4 Coordinator will ensure the requirements of MCM 5 are completed (with the assistance of CS. Davidson). This will then lead the MS4 Coordinator into MCM.5

MCM.5 – Post Construction Stormwater Management was given to the MS4 Coordinator. The MS4 Coordinator will manage activities with CS Davidson conducting the inspections.

MCM.6 – Pollution Prevention for Municipalities duties will continue to be done by the Public Works department as a collective. It was suggested that the MS4 Coordinator determine how much training each employee needs and ensure it gets done in the required timeframes. The MS4 Coordinator was also tasked to eventually evaluate the MS4 Task Force to ensure its efficiency and make changes as seen fit.

<u>New Permit</u>

The new permit comes out in March of 2018 so our Notice of Intent is due on September 16th 2017. For the new permit NEW outfalls will need to have prior approval by DEP. It was suggested that all the outfalls be identified before the NOI submission. Another vague addition is that there will be a new requirement to form and label sewersheds and to delineate outfalls into quadrants.

General Discussion

The requirements for MCM6 were discussed placing emphasis on sharing what activities occurred in the past to give guidance to the new Acting Highway Superintendent. It was decided that if there were any repairs to be made to an inlet that he would email the MS4 Coordinator once per week with those updates. It was requested that his men take before and after photos, and make sure they document everything they did and why.

ADJOURNMENT

The meeting adjourned at approximately 2:46 p.m.



CITY OF YORK EMPLOYEE FALL NEWSLETTER SEPTEMBER • OCTOBER • NOVEMBER

AROUND THE TOWN WITH MAYOR BRACEY



Mayor Bracey enjoys time on the field at PeoplesBank Park with children from Recreation's summer parks program for PlayBall.





Mayor Bracey and Shilvosky help celebrate the opening of the Second Chance Development Foundation Cyber Café at the Yorktowne Community Center with founders Rev. and Tammy Bethea.

Mayor Bracey meets residents at the Lincoln Fire Station during City Hall for a Day.



Mayor Bracey attended the York Fresh Food Farms open house event held on August 30, 2016.



SEPTEMBER 2016

1	Deb Busch	Mayor's Off.
	Tiffany Pitts	Police
3	Gregory Altland	Fire
	Jeffery Spence	Police
4	Erik Swanson	Fire
7	Renee Nelson	City Council
8	Bryan Smallwood	Fire
9	Thomas Landis	Env. Bureau
	Larry Lawrence	Police
	John Stoudt	WWTP
	Erin Longstreet	WWTP
10	Victoria Dapp	Env. Bureau
	Jonathan Spencer	Fire
11	Cindy Mendoza	Police
12	James Hoffnagle	Sewer Maint.
13	Tina Groff	Police
14	David Michaels	Fire
	Kameo Neal	Police
16	Barton Seelig	Police
	Timothy Weaver	Fleet Maint.
	Ronald Shaffer	WWTP
	Christopher Maldonado	Recreation
17	Clifton Kern	WRCT
18	Craig Losty	Police
	Darryl Maxfield	Fire
	Jack Longstreet	MIPP
21	Richard Kinnard	Parking
	Jason Sabol	Solicitor
	Paul Dehart III	Police
	Kiara Michaels	Bldg. Maint.
23	Randy Rauhauser	Fire
	Trisha Melikian	Finance

25	Chad Deardorff	Fire
25	George Jennings	Parks & Rec
	Tommy Williams	Bus. Admin.
28	John Huncher	Police
29	Marc Ott	Fire
	Kittrell Barnes	Finance

OCTOBER 2016

1	Elfreda Hernandez	Parking
	Jeffrey Miller	Fire
4	Timothy Shermeyer	Police
7	Jean Randle	Bus Admin
	Blake McBride	Police
10	Jesse Altland	WWTP
11	Michael Rykowski	Police
	Sean Haggarty	Police
12	Andrew Shaffer	Police
13	Bruce Buchanan	Env. Ser.
	Derrick Millhouse	Police
	Crystal Fealtman	Finance
15	Jared Horvath	Police
14	Kristen Sandmeyer	IS
17	Lendorph Ramos	Parking
18	Barb Kovacs	Health
	Anthony Caruso	Fire
	Richard Kehler	Police
20	Brandon Anderson, Sr.	WWTP
21	Mack Wynegar	Recreation
22	Joseph Colahan	Police
	Troy Cromer	Police
24	Lorie Buchanan	Bldg. Maint.
	Angela Jordan	Finance
26	Rolando Suarez	Fire
28	Michael Davis	Police
	Christopher Thompson	Police
30	Debra Stoops	Health

NOVEMBER 2016

1	Darryl King	Fire
2	Michael Smith	Highway
3	John Veater	Police
	Allen Fuentes	Fire
4	Ed Freeland	Recreation
6	Eugene Lewis	WWTP
	Michael Kinard	WWTP
7	Vincent Monte	Police
14	Melanie Quigley	Health
	Maria Ramos	Finance
16	Dany LaRouche	WWTP
18	Keith Kunkle	Fleet Maint.
21	Sherri Hansen	Police
	Carol Hill-Evans	City Council
25	Ritchie Blymier	Police
	George Ripley	Police
27	Edquina Washington	Mayor's Off.
28	Bernard Baxter	Fire
	Derek Hartman	Police



TO THE FOLLOWING EMPLOYEES THAT HAVE GIVEN AT LEAST 10 YEARS OF SERVICE TO THE CITY OF YORK

SEPTEMBER 2016

Charly Forrest	10 years	PP&Z
Andy Baez	16 years	Police
Larry Lawrence	17 years	Police
Travis Sowers	17years	Police
Nicholas Hansel	18 years	Police
Michael Davis	18 years	Police
Troy Cromer	18 years	Police
Sean Rosier	20 years	Police
Barton Seelig	20 years	Police
Shawn Kelly	20 years	Police

Ritchie Blymier 20 years Police Matthew Luchko Police 23 years Sherri Hansen Police 25 years John Veater 25 years Police Police Roy Kohler 27 years Police Glenn Knauer 28 years Cassie Dennis 28 years Env. Ser. 29 years Melanie Quigley Health Keith Kunkle 31 years Fleet Main Carol Godfrey WWTP 35 years 38 years Jean Randle Bus. Admin. Cass Wile 39 years Highway Cherie Alwine Finance 38 years

OCTOBER 2016

Edward Freeland	22 years	Recreation
Mark Stell	27 years	Recreation
Wesley Kahley	28 years	Police
John Bean	30 years	Highway
Deb Painter	41 years	Housing

NOVEMBER 2016

Jim Gross	17 years	Public Works
Jason Winters	18 years	IS
Debra Stoops	23 years	Health
Maribel Otto	25 years	Finance
Mack Wynegar	32 years	WWTP



Please take the time to introduce yourself and welcome our new employees!

Probationary Police Officers, Frank Clark, Brad Engle, Steven Pickle, and Christopher Thompson. WWTP Operators, Eugene Maszczak and Richard Mathieu. Community Health Specialist Paige Nenstiel and Property Maintenance Inspector Shelton Scott



The United Way of York County serves the community by organizing a network of volunteers, agencies and contributors to provide for the vital health and human service needs of York County residents.

Designating your donation to The Community Fund is the best way that we, as a community, can address the issues that affect us all. Through the Community Fund, contributions are invested in three Focus Areas identified as key to a healthy community: Education, Income and Health. Volunteers work hard to ensure that only programs that demonstrate a measurable impact on people's lives are trusted with United Way dollars — making our community stronger, safer and healthier.

You are eligible to enter the United Way Campaign Drawing with a donation of any amount, just complete the official entry form and return it along with your pledge form.

This year's prizes include:

Grand Prize:



2017 Harley-Davidson Iron 883 motorcycle, donated by the Harley-Davidson Motor Company

First Prize: \$3,000, travel voucher, sponsored by AAA Southern PA

Second Prize: Large Screen TV Valued at \$1699 by DOCEO Office Solutions



Third Prize: 75,000 Wyndham reward points (value of a 5 night stay) at any Wyndham property

Fourth Prize: The Hershey Experience \$1,500 in gift cards towards Hershey Entertainment and Resorts

sponsored by

HEALTHSOUTH

Fifth Prize: Security install and monitoring valued at \$1,500 sponsored by Kleppers Security Source



Sixth Prize: \$1500 gift card donated by Giant Foods



Seventh Prize: Jewelry valued at \$1,300 donated by Garrick Jewelers



Gettle

Eighth Prize: Season dugout tickets donated by York Revolution Baseball, value \$1,289

Ninth Prize: \$1,000 Visa gift card, sponsored by Gettle Inc

Tenth Prize: \$1,000 Bon Ton shopping spree



Eleventh Prize - 10 winners

5 unlimited car wash club (\$381 each); 5 complete detail service



(\$199 each) donated by Apple Automotive

BACK THIS YEAR - EIGHT MORE CHANCES TO WIN FOR CITY EMPLOYEES!!!!

If you donate to the United Way Campaign, your name will be entered in a drawing to win one of eight \$25 gift cards to a downtown restaurant. So be sure to fill out your pledge form and return it to your department's United Way Coordinator.

Remember, your donation stays right here in the York community to help your friends, family and neighbors.

EMPLOYEE NEWS



I want to share my gratitude and appreciation to those who donated their personal sick time on my behalf. My

surgery was a success and I am grateful. Thanks again for your selfless act. It goes to show our organization is truly a team when someone is in need!!! *Cindy Mendoza*



Parking Enforcement Officer Danyiell Newman was on patrol when she found a stray dog wondering the streets. To secure the dog for animal control she put him in the car and then took this pic. What a cutie! Good luck and best wishes to Danyiell who has since left city employment to pursue other interests.



Human Resources surprised their intern, Jaiden Torres (Jackie Marrero's son), for his 17th birthday on July 26th. Left to right: Tom Hunt, Jaiden, Helen, Tom Ray and April.



Tammy Harvey-Bethea, (Housing) and her husband, Rev. Bethea, a YC Police Chaplain, have opened the Second Chance Development Foundation Cyber Café at the Yorktowne Community Center. The center provides a creative and safe out-of-school learning environment where young people from underserved communities work with adult mentors to develop new skills and build confidence in themselves through the use of technology.



Brian Riley, IT, enjoying the boardwalk at Wildwood, NJ with family.

Brian and his wife at the Reggae Fest at the Moon Dance Wine Vineyard in Wrightsville, PA.



Quilt on Display



NENA President Cecilia Keesey with Helen Gyimesi, Children's Home of York

During the month of August a quilt/banner which was created in honor of the North East Neighborhood Association's (NENA) National Night Out events held at the Children's Home Bridges Program was on display in the lobby at City Hall. The quilt/banner is a photographic compilation of events and handprints made by local children in the neighborhood.



Maddie Holm, granddaughter of Deb Busch, got to cheer with the Eagles cheerleaders during a Saturday morning practice. The session ended with a cheer on the 50 yard line! GO EAGLES!



The big day has arrived...King's first day of pre-K! His Mom, Edquina Washington is so proud of her little guy!



Be sure to stop by the new French bakery at 24 South George. The official ribbon cutting was Sept 2nd.

BIKE NIGHT

Friday September 23rd 6:00 to 10:00 p.m. Downtown York



This street party features a 2,000-motorcycle parade, live entertainment on three stages, and food vendors in downtown York. Market Street, from Pershing to Duke, and George Street, from Philadelphia to King are closed for this event. KEEP YORK BEAUTIFUL and YORK CITY CITYWIDE LITTER CLEANUP Saturday, September 24th Volunteers meet at 101 S George St. parking lot between 7:30-8:00 AM. The cleanup runs from 8:00 AM-11:00 AM.





Friday, October 7, 2016 FIRST FRIDAY JAZZ IS BACK!

Jazz in the City will kick off on **Friday October 7**th. Concerts are held the first Friday of every

month from October 2016 thru June 2017, featuring performers from around the region. The event is located in The Studio at the Strand, 50 N. George Street, from 5pm - 7pm. There is a \$3.00 cover fee or free entrance with student id.

WALK A MILE IN HER SHOES



There is an old saying: 'You

can't really understand another person's experience until you've walked a mile in their shoes.' Walk a Mile in Her Shoes® asks men to literally walk one mile in women's high-heeled shoes. It's not easy walking in these shoes, but it's fun and it gets the community to talk about something that's really difficult to talk about: gender relations and men's sexualized violence against women.

The YWCA is asking the men of our community to join them on October 7, 2016 for a one mile walk through downtown York City that begins and ends at LSC Design, 320 North George Street. **Registration** begins at 4:30 pm, **Race** starts at 6 pm and the **Kick Off Your Heels After Party** is at 6:30 pm. All proceeds benefit YWCA York's Victim Assistance Center and ACCESS-York.

Register a team or donate at <u>www.ywcayork.org</u>



Take a Seat at the Table

Celebrate the harvest season with the annual Farm To City Dinner in downtown York! Join us in the center

of Beaver Street, just outside of the Central Market House, on Sunday October 2nd at 2:30 pm. Beaver Street will be shut down for a beautiful afternoon of food, drink, laughter, friends and neighbors.

Tickets are available individually and by the table. With each seat, you'll receive a familystyle dinner with four entrees and sides, three family-style desserts and two complementary drink tickets. Vegetarian and vegan options are available.

Tables topped with the finest fall harvest from local farms, wineries and pastures will be the backdrop to this memorable experience.

Music and laughter will fill the city as the community gathers to enjoy the feast in addition to the silent auction, and live entertainment. This is an event you really can't miss. Rain location is inside the Central Market York.

The Farm to Table Dinner is the annual fundraiser for York Buy Fresh Buy Local. Menu information and tickets are available at: <u>http://farmtocityyork.com/shop/</u>.





Sunday, October 30, 2:00 PM

York's Halloween Parade has been marching thru downtown York since 1949! The tradition continues this year as



Eventive, a partnership between York Traditions Bank and Revolution Baseball produces the parade.

In honor of York City's 275 Anniversary, the theme for this year's parade is "Dreams for a Future York". Parade entries are encouraged to decorate their floats and identify their groups with the parade theme by displaying their vision of York's momentous future. What great surprises does York hold in the year 2041 when the city celebrates its 300th year?

Don't miss the Family Fun Zone presented by CGA Law Firm: On the corner of Market Street and Pershing Avenue from 1 p.m. to 3 p.m. featuring inflatables, games, activities and music! Plus one really cool and super fun attraction.



Trick or Treat in the City of York will be held on Halloween, Monday, October 31, from 6 - 8 pm.



Ray Crenshaw Neighborhood Awards

On Saturday November 5, 2016, 5:00 p.m. at the Voni Grimes Gym, located at 125 E. College Avenue, York, PA, the City of York will host the Inaugural Ray Crenshaw Neighborhood Awards.

The event will be held in honor of the legacy of service and dedication that Mr. Ray Crenshaw gave to the City of York. The event will highlight and celebrate City of York community members, businesses, and organizations that have made our community the lively, diverse, and robust York that it is today. The semi-formal event will feature entertainment, refreshments, and award recognitions. The event fee is \$40.00 per person. Tickets can be purchased at York City Hall, 101 S. George Street, York, PA.

Nominations for your favorites can be entered on <u>www.yorkcity.org</u>

A portion of the event proceeds will be utilized for the renovation of Voni Grimes Gym.



Daylight Saving Time Ends Remember, Sunday, November 6, is the time to "fall back" - turn your clocks back one hour.
PUBLIC WORKS DEPARTMENT



Cassie Dennis, Environmental Bureau Manager talking to residents at Station 9 during "City Hall for a Day"

YARD WASTE FACILITY (Memorial Stadium) This site is open on the first Saturday of each month 10 AM - 2 PM, weather permitting. (Bring proof of residency) NO GRASS PLEASE! Open: 10/1; 11/5; 12/3. Closed: January, February & March

CITY OFFICES are closed Thursday



November 24 & Friday the 25 for the Thanksgiving Holiday.

Holiday Collection Schedule

Thanksgiving Day - No collections on Thursday, 11/24 All collections (Thurs - Fri) will be delayed 1 day this week only

LARGE-ITEM COLLECTION



843-1240 York City Curbside

Customers may call Mon-Thurs, 9:00 AM-3:30 PM to schedule up to 5 normal household furniture/appliance items. Some items are excluded from this service and must be handled privately. Items with dead or alive BEDBUGS must be bagged and sealed before scheduling. Large "mattress bags" are sold at U-HAUL.



MEDICATION, unless indicated otherwise on the package, may be disposed of in your regular household trash after removing it from the container and mixing it with something undesirable such as coffee grounds or kitty litter. Do not flush medication down the toilet. Medications can also be disposed of at the Police Dept., 50 West King

SHARPS are needles/lancets used at home to inject medicine into people or pets. Properly dispose of "sharps" in small quantities: a) place sharps in a thick plastic laundry bottle; b) clearly mark bottle "SHARPS"; c) seal lid tightly; d) discard of container with trash in a securely tied trash bag and place for normal curbside collection.

TRASH PICK UP GUIDELINES

Securely Tied Bags Help Prevent Litter

Place trash in plastic or metal cans with a lid and handles (best practice: all trash contained in a securely tied trash bag inside) or place trash in securely tied trash bags at the curb (Max: 32gals; 40lbs; contents should never exceed over the top edge of the container).

DO NOT use for trash storage: Contractor bags, leaf bags, grocery bags, large "tote" cans or any trash cans over 32-gallons, plastic/metal drums, cardboard boxes, milk crates, storage totes and laundry baskets. Illegal containers may be disposed and refunds/replacements will NOT be given.



CONTAINERS & BAGS

Are for sale to individual residents for their specific York City property. Quantities will not



be sold to landlords or management companies.

Green Recycling Bin and Yard Waste Cans are **\$3.00/each**.

Yard Waste Kraft Paper Bags are **\$5.00** for a pack of 10.

The items above are available at the Public Works Department, <u>101 S George Street</u>, 2nd <u>floor</u>, M-F, 8 a.m. - 5 p.m. Customers must show proof of residency. Yard waste cans/bags are <u>not</u> available December-February. <u>Recycling</u> containers must remain with the property.

ELECTRONICS RECYCLING

Effective January 24, 2013 certain items may not be discarded in the normal trash: 1)TVs; 2) Computers; 3) Items that connect to computers (such as printers, modems, keyboards,



etc). These items <u>must be taken by the</u> <u>customer to an Electronics program</u> for proper handling. The York County Solid Waste Authority opens their site to all York County residents every week (thru the end of 2016) on Tues, Wed & Thurs from 3-6:30 pm. For more information call YCSWA at 845-1066 or go to the YCSWA website at <u>www.ycswa.com</u>

FALL LEAF COLLECTION



Vacuuming of loose leaves from curbs depends on the weather and usually begins mid to late October and continues into early December, weather

permitting. In the case of a significant snow event, equipment would be changed over for the season to snow removal.

FINAL CURBSIDE YARD WASTE COLLECTIONS

Curbside collection of paper yard waste bags/yellow cans/bundles of yard waste and fall leaves will continue, weather permitting, into mid-December.

Final curbside collections of yard waste will be:

<u>Monday, December 12th</u> in the Monday Refuse District

<u>Tuesday, December 13^{th} in the Tuesday Refuse</u> District

IMPORTANT STORMWATER INFORMATION!

Water INSIDE Buildings Sinks (cleaned/treated) Toilets (cleaned/treated) Showers (cleaned/treated) Washer (cleaned/treated) -VS-Water OUTSIDE Buildings Rain/Snow/other precipitation Water from carden base

Water from garden hose Water from pool/pond/buckets

Water OUTSIDE does <u>NOT</u> get cleaned! Like most cities, York's <u>storm water is NOT</u> <u>treated or cleaned</u>. Whatever goes into storm drains ends up in our Codorus Creek. The water on the outside of your home/business will pick up and carry contaminants to the creek, such as soil, vegetation, animal wastes, litter/trash, oil/chemicals, street grit, etc. Please do your part to keep the water going into drains and the creek clean of harmful items.





Presented by the City of York and the York City Human Relations Commission

Interested in becoming a real estate investor? Think you have what it takes to be an outstanding landlord? Landlord University is an eight week certified course to teach you the ins and outs of investing in rental real estate.

Students will learn about a variety of topics related to owning rental investment properties, all taught by local experts in their related field. From how to insure their properties, avoid legal pitfalls, to how to make rentals an investment in your future. Upon completion of the course each student will receive a certificate. You must attend all classes to receive your certification.

- FINANCING FOR INVESTORS
- AVOIDING LEGAL PITFALLS
- PROTECTING YOUR INVESTMENT
- ENSURING QUALITY HOUSING
- REHAB & CONSTRUCTION/FAIR
 HOUSING
- UNDERSTANDING OPPORTUNITY
- UNDERSTANDING SETTLEMENTS
- FINDING & INVESTING IN YOUR FUTURE

Classes start September 15th and run 8 weeks till November 3rd, 6pm-9pm. All classes will be held in the newly opened Cod Gallery by Murphy &Dittenhafer, at 228 West Market Street, York. Free parking is available on the street or in the City parking lot at 234 West Market Street.

Program Fee: \$100 (Non-refundable) You will receive a certificate upon successful completion of the workshops. Proceeds will benefit the Human Relations Commission. **To Register For This Course:** Contact Tonya Thompson-Morgan at (717) 846-2926 or via email <u>tthompso@yorkcity.org</u>

Human Resources Announces New Health Service Benefit

Telehealth services are now available, if you have a smartphone, tablet, or computer, you can see a doctor anytime, anywhere!

During video appointments, doctors can diagnose common illnesses and write prescriptions that go straight to your pharmacy. Video doctor visits — telehealth services — are a covered benefit on most Capital BlueCross health plans.¹

Why use telehealth services?



Convenient and easy Less costly than a trip to an urgent care center or emergency room Helpful when: You need to see a doctor, but can't fit it into your schedule Your doctor's office is closed You feel too sick to leave the house You become sick while traveling

Doctors are available 24/7/365 through Amwell mobile app or website; no appointment necessary

 Three ways to sign up: Download the free Amwell app Visit amwell.com Call 855.818.DOCS

• Use service key CAPITALBLUE

<u>Learn More</u>

Visit **capbluecross.com/telehealth** to learn more about video visits and how to find local network doctors.



FIRE DEPARTMENT NEWS

AWARDS CEREMONY

The Department of Fire/Rescue Services' Awards Ceremony was held on Wednesday, August 10, 2016, in Council Chambers. During the ceremony, we recognized several members for service. We had a firefighter promoted to Captain, recognized a member of the Department who recently retired and recognized a member of the York City Public Works Department. The ceremony concluded with the announcement of the 2015 Career and Volunteer Firefighters of the Year.

2015 FIREFIGHTER OF THE YEAR

The Department of Fire/Rescue Services

announced Firefighter Matthew Hoblitzell as the 2015 Firefighter of the Year. Firefighter Hoblitzell's award read:

Since joining the



department in 2010, he has demonstrated a positive attitude and a sincere desire to serve your community.

He is prepared to perform his job as is evident of the rescue of a civilian from a fire on McKenzie Street in 2015. He did not hesitate and reacted immediately when confronted with a person hanging from a 2^{nd} floor window. Realizing the person was trapped by fire and smoke, he raised a ground ladder to the window and helped the civilian to safety.

He has set high standards for himself and continues to train to better himself and the

Department. He is trained in high angle and confined space rescue. As a certified instructor, he passes his knowledge on to others.

He continues to serve Local 627 as a Union Steward and Assistant Secretary. He gives back to the community by volunteering with charity events including the Easter Food Drive and raising money for the Muscular Dystrophy Association. He routinely uses his skills and talent to assist with the maintenance of the Department's equipment. He is in charge of the Department's handlights and assists with the maintenance of Department vehicles.

PROMOTION OF CAPTAIN ADAM SMITH

Captain Smith began his career with the Department on August 9, 2010. Captain Smith has



obtained numerous nationally recognized certifications since joining the Department, including EMT/B, Firefighter I & II, and Fire Instructor I & II. Captain Smith holds a bachelor's degree from Towson University and recently graduated from Millersville University with a Master's degree in Emergency Management.

Before his promotion, Captain Smith worked at



Station 1 on D Platoon. Captain Smith will serve as the Captain of B Platoon in his new assignment. Captain Smith resides in

York City with his wife Brittany.

CHIEF'S LETTERS OF COMMENDATION

Bill Ruby (York City Public Works Employee) received the Chief's Letter of Commendation for his role of assisting a civilian found lying in the street with a broken leg for over 30 minutes during the crippling snow storm in January 2016. Without his assistance, the patient risked being struck by a vehicle or succumbing to hypothermia.

While off duty on March 11, 2016, firefighter **Keith Ramsay** was off duty at the Sheetz store on Arsenal Rd. He observed a woman screaming inside of a vehicle and found a naked male subject attempting to get into her car. Firefighter Ramsay immediately intervened and assisted another by-stander in subduing the subject until the arrival of the Police at which time they took the male subject into custody.

On October 21, 2015, at 1739 hours, firefighter **Kevin Holtzapple**, along with members of A platoon, were dispatched to a reported structure fire at 330 E Poplar St. On arrival, FD personnel found heavy smoke and fire visible from the rowhome. Firefighter Holtzapple and other members witnessed civilians throwing personnel effects out of the 2nd floor window. Firefighter Holtzapple continued to prepare the ladder truck to maneuver to assist with the rescue in the event the subjects needed to be rescued from the window.

Firefighter Holtzapple noted rapid and Firefighter deteriorating fire conditions. Holtzapple immediately realized crews were inside on the 2nd floor conducting a search for additional victims and that the fire had now cut off the other firefighters egress from the 2nd floor. Firefighter Holtzapple immediately called for a MAYDAY indicating to others on the scene that firefighters were in danger. Due to the quick actions of Firefighter Holtzapple, personnel were able to evacuate the building with minor burns. If it weren't for the quick actions of Firefighter Holtzapple, the outcome of that incident could have been drastically worse.

On April 30, 2016, firefighter Randy Rauhauser was reporting to work at Station 9 and noticed two subjects in the fire station parking lot looking into the on-duty firefighter's parked vehicles. He engaged in conversation with the subjects by requesting to know what they were doing in which one of the subjects was not cordial. One of the subjects pulled a handgun out and brandished it at Firefighter Rauhauser. Firefighter Rauhauser remained calm and stayed in his vehicle and the subjects walked towards Roosevelt Ave. He immediately called 911 and reported the situation as he followed the subjects in his vehicle from a safe distance. Due to the guick response of the York City Police Department and the concise information given by Firefighter Rauhauser, the subjects were apprehended in a short time.

It was later found out that the subject who had the gun was a convicted felon and the gun was stolen with a bullet in the chamber and the hammer cocked.

On April 29, 2016, firefighter **Brandon Hyder** was on duty at Station 2. Firefighter Hyder walked back to the Vigilant Social Club behind the fire station to use the ATM machine and found a female choking.

Firefighter Hyder immediately assessed the patient and found that her airway was blocked and immediately performed the Heimlich maneuver on the patient while having others summon 911. Firefighter Hyder continued with the Heimlich maneuver until the food became dislodged and the patient started breathing on her own.



L to R: VFF Arthur Harman, FF Keith Ramsey, FF Kevin Holtzapple, FF Randy Rauhauser, Public Works Employee Bill Rudy, FF Brandon Hyder and FF Matthew Hoblitzell

Congratulations to all of our award recipients. They continue to uphold the proud tradition of the City of York and the City of York Department of Fire/Rescue Services.

YORK UNITED EVENT

On Thursday August 4, 2016, members of the Department of Fire/Rescue Services participated in the York United Event that was organized by **Councilwoman Sandi Walker**. This unity event was organized to show the communities support to our friends in blue from the York City Police Department. Thank you to Councilwoman Walker for organizing this successful event.





Smoke Detector Program Update

Since the rebirth of the Department's smoke detector program in September of 2013, the Department has installed a total of 1,997 smoke detectors and 185 batteries. The program has benefited approximately 267 City residences.

Please remember to test your smoke detectors monthly.

WAHL COMMERCIAL SHOOT

In May, we received an interesting message on the Department's website requesting if there was



interest in the Department being featured in a commercial for Wahl hair clippers. We conducted an interview with representatives from Wahl and the advertising agency. During the interview, we discussed the history of the City of York and the City of York Department of Fire/Rescue Services. We were ultimately chosen over many other departments for this shoot.

The week of August 1st, seven (7) people arrived in York to begin the commercial shoot. Throughout the week, they toured the City with our personnel seeing what the life of a firefighter was like. They attended, and shot excellent footage of Fire Department personnel interacting with the public at National Night Out, as well as responding on some incidents with our personnel. On Thursday August 4, 2016, excellent footage was obtained at the York County Fire School to depict what our personnel do. This was able to be accomplished thanks to Firefighter Matthew Hoblitzell, Firefighter Jonathan Spencer and Firefighter Malachi Cochran. Also while they were here, they got to see what beautiful and fun things the City of York has to offer. They were extremely impressed with our City and they all stated they would like to come back and visit with their families

The commercial will be aired starting in the fall on many major national channels such as ESPN, ESPN 2, History Channel, etc. Plus there will be a few 2 $\frac{1}{2}$ minute videos on the Wahl website.

2016 NATIONAL NIGHT OUT

The Department of Fire/Rescue Services visited a total of 23 sites for National Night Out on August 2, 2016. The crews enjoyed fun times with many different communities in the area. This included Firefighter William Crenshaw being involved in a tense game of Jenga. Firefighter Crenshaw did eventually win the game, but not without difficult competition from his competitor.



Great picture of Sully Pinos, Rep. Schreiber's Chief of Staff with the FD guys. FF Crenshaw & Deputy Chief Deardorff Chief Michaels, FF Suarez & FF A. Caruso



Future firefighter sitting in the firetruck at Lincoln Charter School..none other than Edquina's little boy.



FF Crenshaw involved in a game of Jenga with a fierce competitor.



Firefighter Malachi Cochran and Kristen (Potter) Cochran. Mr. & Mrs. Cochran were married on Saturday June 25, 2016, in a traditional Catholic ceremony that was held at St. Thomas the Apostle Church in Elkland, PA. Firefighter Cochran started with the Department on February 29, 2016, and Kristen works as a

Veterinary Technician. The Cochran's now reside in York City. Congratulations to the newlyweds and we wish them a lifetime of happiness together.



FALL SAFETY TIPS

As summer turns to fall, it's a good idea to refresh your memory on fall fire safety tips. Some safety tips are the same regardless of the time of year, but many safety concerns are seasonal, particularly those that involve keeping your home warm.

Time Changes Mean Battery Changes

Change the batteries in your smoke alarms and carbon monoxide detectors when you turn back your clock for Daylight Saving Time. Make sure to check the alarms with the new batteries installed. It is also a good idea to make it standard procedure in your household to verify that all fire extinguishers are fully charged and in working order when you adjust the clocks each season.



Home Heating Tips

No matter what type of device you use to heat your home, making sure your

heating devices and/or systems are in good working order is an important part of learning some fall fire safety tips. Many things can go wrong with heating equipment during the spring and summer months. Verify that everything you need to keep your home warm throughout fall and winter is in good working order before you experience the first cold snap of the season.

Central Heating System Safety Tips

- Get your central heating system cleaned, inspected, and serviced by a certified HVAC (heating, venting and air conditioning) contractor every year before using it.
- If you have a gas heater, make sure that you have sufficient quantity of fully functioning carbon monoxide detectors installed in your home.

Space Heater Safety Tips



• Make sure that any space heaters are surrounded by at least three (3) feet of empty space.

• Never place clothing or any other objects on a space heater

- Do not place space heaters near furniture or drapery.
- Turn space heaters off when you leave the house or go to bed.
- Avoid storing any combustible items near heaters.

Fireplace Safety Tips

 Get your chimney inspected each year to make sure that it is safe.



- Hire a chimney sweep to clean out your chimney every fall.
- Repair any cracks in fireplaces.
- Use fireplace screens to keep sparks and fire debris inside the fireplace.
- Do not ever use gasoline to start a fire in the fireplace.
- Never leave a fire unattended.
- Make sure that combustible materials are not stored within three (3) feet of your fireplace.
- For natural gas fireplaces, get all connections and lines inspected before use each season.
- Remember that outdoor fireplaces can be just as dangerous as indoor units, and observe all safety precautions when using them.

Exercise Candle Caution Candles are a great way to give a room that warm glow, but they can also cause fires. According to the National Candle Association, almost 10,000 home fires start with improper candle use. Never leave candles burning if you go out or go to sleep, and keep your candles away from pets and kids.

Fire Safety Tips for Holiday Decorations

- Do not use candles in Halloween jack-olanterns. Flashlights are much safer.
- Make sure that children's costumes are made with fire retardant materials.
- Use only fire retardant holiday decorations



Verify that all holiday lights and extension cords have been tested by an organization such as Factory Mutual or Underwriters Laboratory.

Family Fire Safety Tips

- Teach your kids how to respond in the event of a fire.
- Make sure young children know how to dial 9-1-1.
- Establish and practice a fire escape plan with your family that includes a designated meeting area outside the home.
- Practice stop, drop, and roll with your children so they learn how to escape beneath a fire.
- Teach everyone in your family multiple ways to escape from every room in the event of a fire.
- Make sure that there is a sufficient quantity of smoke detectors in your home.

- Verify each month that smoke detectors are in working order.
- Make sure everyone in your family knows how to use a fire extinguisher.
- Do not place lit candles where they can be reached by children.
- Never leave burning candles unattended.
- Do not leave candles burning when you go to sleep.
- Don't leave cooking food unattended on the stove.
- Keep everything that might be flammable away from your stove.
- Make sure all flammable substances are properly stored in safe containers and out of reach of youngsters.

Outdoor Fall Fire Safety Tips

Clear your roof and gutters of unnecessary buildup of debris, such as pine needles and leaves. Learn the outdoor burning regulations in your area and do not engage in illegal burning of leaves and other outdoor debris.

Safety Matters

There is nothing more important than the safety of your family. Everyone in your home needs to



know how to behave responsibly to reduce the likelihood of experiencing a fire. However, because fires can start at any time without warning, it is also very important that the members of your household know how to react in the event of a fire. It's a good idea to review fire prevention and safety tips with your family every fall, and several other times throughout the year.



York City Police Department

Citizen's Police Academy Announced

The York City Police Department is accepting applications for the 2016 Citizen's Police Academy.

The Citizen's Police Academy class is scheduled to occur Tuesday, October 25, 2016 - Thursday, November 17, 2016. The 8-session program will meet every Tuesday and Thursday, beginning at 6 pm, located at York City Police Department, 50 W. King Street, York, PA.

The Citizen's Police Academy provides individuals residing in our community with a first-hand overview of both law enforcement and community-related functions of The York City Police Department.

Instructors for the Citizen's Police Academy are highly trained and experienced York City Police Officers. Participants will experience role playing exercises, take tours and interact with Police Officers while on duty.

All candidates must be 18 years of age or older, complete an application and provide a valid college or government issued identification card. Also, a criminal history background check will be performed on all applicants.

There is no fee for training, however The York City Police Department requests that each participant be committed to the full length of the training. The class size will be limited to 40 students. Applications are available at the York City Police Department front desk or www.yorkcity.org. Instruction topics will include:

Introduction to Policing SWAT **Community Services** Crime Scenes Use of Force **Detective Bureau** Scams/Fraud Police Vehicles Patrol Operation Narcotics Animal Enforcement Officer Taser Crime Prevention 911 County Control Motor Vehicle Stops Active Shooter Response SRO's Q&A Officer Panel

NATIONAL NIGHT OUT FUN



Chief Kahley takes a turn at the grill.

CITY HALL FOR A DAY AT LINCOLN FIRE STATION



Chief Kahley and Capt. Utley signing up a new recruit.



Lt. Fells mans the information table during the recent City Hall for a Day event that was held at the Lincoln Fire Station on Roosevelt Avenue.



The Community Services Division of the York City Police Department will again be hosting a Crime

Prevention Booth at the York Fair. The booth will be located in the Memorial Building, West Hall (South West Corner)

The booth will have brochures, flyers and pamphlets on crime Prevention, bullying, personal and home safety. As well as items for gun safety, underage drinking prevention and information for free bike helmets.

Wide Load Comin' Through!





On Thursday, July 7th 2016 at 6:00pm, Edwards Moving and Rigging transported two oversized boilers through the western section of the City of York. The boilers traveled with a police escort south in the 100 block of North Hartley Street from the rail yard adjacent to Precision Components to West Market Street, and then west on Market Street into West York Borough. Thank you to **Mike Shanabrook**, Emergency Management Planner for providing the photos.



BUREAU OF HEALTH NEWS

PHOTO ALBLUM



The Bureau of Health staff attended the York Fresh Food Farms open house event held on August 30, 2016. The City of York - Bureau of Health supported the York Fresh Food Farms project by applying for and receiving PA DOH grant funds to advance urban farming initiatives in the City of York.



Craig Walt, Community Health Services Supervisors congratulates Sang Woo Lee the owner of Lee's Food Market. Lee's Market is the first corner store to join York's Healthy Corner Store Initiative. The initiative provides support to neighborhood corner stores so they are able to offer and promote healthier fresh food options to their customers.



Graduates from our most recent A Matter of Balance program at White Rose Senior Center. Bureau of Health staff work with community volunteers to provide falls prevention programs throughout York.



Eva Walker, Community Health Nurse, performing blood pressure screenings at the BTCC Women's Healthy Hangout held at Bible Tabernacle Christian Center on August 27, 2016.



The Health Bureau held a Shingles Clinic on September 9th in Council Chambers. for city employees and county residents 50 years of age and older as an emergency preparedness exercise. Eva is pictured checking her supplies before the next patient.



Health Bureau staff participated in several National Night Out events on August 2, 2016.

September is National Preparedness Month

Are you prepared to survive a major earthquake, blizzard, fire, flood, act of terrorism or other disasters? The time to start thinking about what to do in an emergency is before it happens. By following some simple guidelines you can help prepare your family, neighborhood, business or school to be better prepared and self-sufficient to deal with a disaster.

The County of York and York City, maintain formal disaster plans designed to coordinate emergency services provided by county, state, federal and volunteer agencies. Every effort will be made to preserve basic services to York County and City residents but survival during a disaster depends on individual and family preparedness. Four key steps to preparedness include: having a plan, keeping supplies, staying informed and being involved.

Family Emergency Plan

A good place to begin emergency preparedness is by writing a Family Emergency Plan.



Your Plan should include every member of your

household - including pets! Ten essential actions include:

- 1. Learn the threats in your area
- 2. Identify meeting places
 - Outside your home
 - Outside your neighborhood
- 3. Select your out-of-state contact
- 4. Know your evacuation routes
 - Exits and alternative ways to leave home
- 5. Know the location of utility shut-offs
- 6. Know the emergency policies of schools and adult-care centers
 - Emergency shelter/supplies
 - Transportation
- 7. Identify safe spots in each room to take cover, if needed
 - Under sturdy tables and desks
 - Against interior walls
- 8. Extra medications
- 9. Make special provisions for
 - Children
 - Seniors
 - Pets
 - People with disabilities
 - Non-English speaking
- 10. Schedule annual disaster drills

A good plan also includes preparing for situations when you might have to evacuate. Ten essential items for an evacuation kit include:

- 1. Emergency Supply Kit
- 2. Out-Of-State contact list
- 3. Cash and credit cards
- 4. Important documents
 - Social Security card
 - Drivers license
 - Passport
 - Medical card and records
 - Insurance information
- 5. Change of clothing (for each family member)
- 6. Personal hygiene items
 - Toothbrush & toothpaste

- Lotion
- Deodorant
- Facial and toilet tissue
- 7. Family photos
- 8. Baby items
 - Diapers
 - Formula
 - Food
 - Change of clothing
- 9. Mobility/assistive devices and medications
 - Wheelchair, canes, walkers
 - Medications
 - Hearing aids, extra batteries
- 10. Pet care items
 - Identification & immunization records
 - Carrier or cage
 - Muzzle and leash
 - Food & water

Emergency Supplies



At a minimum, your emergency supplies should include these 10 essential items:

- Water for 3-10 days (1 gallon per person per day)
- Food for 3-10 days; non-perishable such as canned meat, protein bars, peanut butter, etc. (include pet food)
- 3. First Aid Kit and instructions
- 4. Flashlights (and extra batteries)
- 5. Radio (and extra batteries)
- 6. Medications (prescriptions and nonprescriptions
- Cash and important documents (small bills and coins, birth certificates, tax returns, deeds, titles, insurance papers, medical cards)
- 8. Clothing and sturdy shoes
- 9. tools (wrench, duct tape, sturdy gloves, whistle)
- 10. Sanitation and hygiene supplies (diapers)

Stay Informed

It is important to know how you would be informed in the event of an emergency or disaster. Broadcasters,



including television, radio, cable operators, satellite television and satellite broadcast radio will transmit emergency alert messages from the York City Emergency Management Authority or the Mayor. Area radio stations monitor emergency broadcasts from a variety of sources including the York County Emergency Alert System, NOAA Weather Radio, Pennsylvania Health Alert Network, Pennsylvania Emergency Management Agency, (PEMA) and the Federal Emergency Agency (FEMA) Radio.

Be Involved

Know what's available in your neighborhood and if there is an organized neighborhood association for coordinating preparedness activities. Become a Community Emergency Response Team (CERT) member. The CERT program trains residents on disaster preparedness and hazards that may impact their area. You learn basic disaster response skills, such as fire safety, light search and rescue, team organization, and disaster medical operations. Using classroom training and practical exercises, CERT members learn to assist their neighbors and co-workers after a disaster when professional responders are not immediately available to help.

For more information on CERT programs contact the City Emergency Planner, Mike Shanabrook at 849-2441.

Resources and information: <u>www.ready.gov</u> <u>www.health.state.pa.us</u> <u>www.pema.state.pa.us</u> <u>www.redcross.org</u>



CITY OF YORK

WINTER EMPLOYEE NEWSLETTER









Mayor Bracey's Merchant of the Month for September was **JR's Fresh Cut Fries** located at Central Market. Jesse Altland, one of the owners (pictured on the right) is a city employee working at the WWTP.

MAYOR BRACEY ON THE MOVE



Mayor Bracey enjoys lunch with Lincoln Charter School students during National School Lunch week.



Wow! Have you ever seen this many people on Market Street! Over 5,000 people showed up on Thanksgiving morning for the annual Turkey Trot. Mayor Bracey was on hand bright and early to welcome the runners, perched atop the Fire Department's Truck 99-2. What a view!

HAPPY BIRTHDAY TO YOU !



DECEMBER 2016

1	Matthew Hoblitzell	Fire
	Channon Rivera	WWTP
2	Eric Harris	Sewer Main
3	Timothy Golden	Fire
4	Alex Sable	Police
7	Gladys Zimmerman	Police
8	Steve Bowman	Fire
	Kimberly Hall	Health
10	Robert Goshen	Police
	Donald Hoyt	Solicitor
	Johnathan Brown	Fire
13	Zachary Pelton	Police
14	Michael Zaler	Fire
15	Zachary Anthony	Fire
	Benjamin Praster	Police
17	Christopher Husted	Police
20	Shawn Caruso	Fire
22	Paul Bievenour	B&E Main
25	Imani Nesbit	Finance
27	James Fells	Police
	Paul Hibner	Parking
28	Jeffrey Sunday	Fleet Main
30	Chuck Crumpton	Police
	Nicole Gallup	PP&Z



JANUARY 2017

2	Sean Rosier	Police
3	Tammy Souders	Police
5	Kim Bracey	Mayor
	William Wentz	Police
6	Jason Winters	Info Systems
	Frank Rodgers	Env. Services
7	Richard Mathieu	WWTP
8	Tamika Rascoe	PP&Z
10	Jody Trimmer	Recreation
13	Todd Stough	Fire

13	Travis Sowers	Police
14	Roy Wolfhope	B&E Main
15	James Crosby	Housing
16	Brisa Dean White	Treasurer
17	John Reisenweber	Police
	David Ferguson	Fire
	Benjamin Smith	Police
	Miguel Salazar	Police
	Joshua Phillips	Police
18	Serena Woodyard	Police
	Robert Lambert	Controller
21	Renae Kent	Police
22	Esther Van O'Linda	Police
23	Andrew Mullins	Recreation
24	Cheryl Rascoe	Zoning
	Thomas King	IS
	Holly DeKarske	EC Dev
25	William Collins	Fire
26	Wade Fleming	Fire
27	David Rudolph	B&E Main
	Donald Newcomer	Fire
28	Shelby Pierre	Police
30	James Rawlinson	WWTP



FEBRUARY 2017

1	Carlos Santiago	PP&Z
2	Ronald Schrum	B&E Main
	Moises Caraballo Cuba	Health
	Eugene Maszczak	WWTP
3	Brandon Sawyer	Fire
4	Michelle Painter	PP&Z
	Melvin Collier	Park & Rec.
6	Christopher Grove	Fire
	Kevin Westover	Fire
	Anthony Nguyen	Parking
	Jason Sandmeyer	PP&Z
7	Jeffrey Laughman	Highway
	Matthew Irvin	Police
	Jimmy Snyder	Parking
	Wanda Rios Martinez	WWTP
10	Brian Eastman	Police
	Bradley Engle	Police
11	Sandie Walker	City Council

13	Ivan Flanscha	Fire
16	William Crenshaw	Fire
16	Monica Kruger	Health
17	Charles Sleeger	Fire
19	Gregory Schick	Police
	Joseph Yeatts	Sewer Main.
20	Roy Kohler	Police
21	Steven Nicholas	Police
22	Scott Millar	WWTP
22	Raymond Smith	Parks & Sanit
23	John Bean	Highway
	Kyle Pitts	Police
25	Kaji Collins	Police
26	Gary Landis	Fire
27	Gil Kimes	Fire
	David Bowman	Fire
28	Karissa Handcock	Finance
	Shawn Firestone	Fire

CONGRATULATIONS TO THE FOLLOWING YORK CITY EMPLOYEES WITH 10 OR MORE YEARS OF SERVICE !

December 2016

Michael Reinert	Police	10 years
Gary Landis	Fire Dept.	24 years
John Hedrick	Fleet Maint	26 years
Jody Trimmer	Recreation	32 years
Chhoeuth Yeng	WWTP	32 years

January 2017

Michelle Painter	PP&Z	10 years
Clayton Glatfelter	Police	11 years
Raymond Ferguson	B&E Main	11 years
Christopher Perry	Police	12 years
John Reisenweber	Police	12 years
Michael Rykowski	Police	12 years
Allen Henty	Police	13 years
Stephen Aderhold	Police	13 years
Michael Ebersole	Police	13 years
Debra Busch	Mayor	15 years
Serena Woodyard	Police	16 years
Jeremy Mayer	Police	16 years
Matthew Leitzel	Police	17 years

Troy Bankert	Police	18 years
Paul Dehart	Police	19 years
George Ripley	Police	19 years
Roger Nestor	Police	19 years
Andrew Shaffer	Police	20 years
Robert Goshen	Police	20 years
James Knarr	Police	22 years
Veronica Chavez	MIPP	22 years
Orazio Riccobono	Police	23 years
Daniel Aikey	Police	23 years
Donald Hoyt	Solicitor	23 years
Steven Nicholas	Police	24 years
Scott Ross	Police	25 years
Craig Losty	Police	25 years
Steven Butler	Police	27 years
Marilou Yingling	Health	27 years
Jeffrey Spence	Police	28 years
Patrick Rose	Fire Dept.	29 years
Anthony Fetrow	Police	29 years
Blake McBride	Police	29 years
India Banks	Public Works	30 years
Tammy Souders	Police	32 years
Edwin Hamilton	Fire Dept.	37 years

February 2017

Robert Bievenour	Fire	14 years
Christopher Grove	Fire	14 years
Kevin Westover	Fire	14 years
Shawn Firestone	Fire	14 years
Ivan Flanscha	Fire	18 years
Pam Yeaple	Finance	19 years
Dianna Thompson	City Council	20 years
Mark Bowman	Fire	23 years
William Wentz	Police	26 years
David Rudolph	B&E Main	32 years
Roy Wolfhope	B&E Main	32 years
Scott Millar	WWTP	34 years
Michael Shanabrook	Planning	40 years

WELCOME TO OUR NEW CITY EMPLOYEES!!!!

Welcome to our newest City employees! **Rose Knight**, Janitor, B&E; **Kimberly Hall**, Community Health Specialist, Health Bureau; **Anthony Jones**, Firefighter, Fire Department; **Glenn** Jansen, Firefighter, Fire Department; Ricardo Richards, Equipment Operator II, Highway; Chaz Green, Deputy Director, Public Works; Chastity Frederick, Community Health Specialist, Health Bureau; Lettice Brown, MS4 Coordinator, Public Works; Sara Hoh, Compliance Officer II, Public Works; Cary Hollis, Community Health Specialist, Health Bureau. Welcome back to Josh Houston, Network Administrator, IS.



It is always exciting when the Christmas tree arrives downtown. Mr. Brent Hatterer of York and Life Path Ministries are credited with donating the 30-foot blue spruce.

Thank you to Kinsley Construction and our City of York Public Works crew for getting the tree here safely and ready for Light Up York.





Congratulations to **Charly Forrest**, **Permits Technician** in PP&Z for being named to the Dean's List. Charly is attending classes at Harrisburg Area Community College (HACC) for her degree in Business Management.



Paul Hibner, Public Works Employee (Parks & Sanitation) was recently elected the Right Worshipful Junior Grand Warden of the Most Worshipful Prince Hall Grand Lodge of Pennsylvania Masons. Congratulations!



Ring in the New Year with the entire family! The **Children's Countdown** at Central Market is complete with complimentary hats and noisemakers for youngsters, family-friendly entertainment, inflatables, photo backdrops and props, glitter tattoos, face painting, and a balloon drop countdown. Select Central Market vendors will also be open with food and beverages for sale.



For those that can make it till midnight, join in the Countdown at Continental Square to watch the white

rose drop, and a fireworks display to celebrate the arrival of 2017!



WHAT ARE YOU GOING TO EAT FOR GOOD LUCK IN THE NEW YEAR?

For many, the New Year offers an opportunity to forget the past and make a clean start. But instead of leaving everything up to fate, why not enjoy a meal to increase your good fortune? There are a variety of foods that are believed to be lucky and to improve the odds that next year will be a great one. Traditions vary from culture to culture, but there are striking similarities in what's consumed in different pockets of the world: The six major categories of foods are grapes, greens, fish, pork, legumes, and cakes. Whether you want to create a full menu of lucky foods or just supplement your meal, here is a list, guaranteed to make for a happy new year, or at the very least a happy belly.



Grapes

New Year's revelers in Spain consume twelve grapes at midnight—one grape for each stroke of the clock. This dates back to 1909, when grape growers in the Alicante region of Spain initiated the practice to take care of a grape surplus. The idea stuck, spreading to Portugal as well as former Spanish and Portuguese colonies such as Venezuela, Cuba, Mexico, Ecuador, and Peru. Each grape represents a different month, so if for instance the third grape is a bit sour, March might be a rocky month. For most, the goal is to swallow all the grapes before the last stroke of midnight, but Peruvians insist on taking in a 13th grape for good measure.



Cooked Greens

Cooked greens, including cabbage, collards, kale, and chard, are consumed at New Year's in different countries for a simple reason — their green leaves look like folded money, and are thus symbolic of economic fortune. The Danish eat stewed kale sprinkled with sugar and cinnamon, the Germans consume sauerkraut (cabbage) while in the southern United States, collards are the green of choice. It's widely believed that the more greens one eats the larger one's fortune next year.

Legumes

Legumes including beans, peas, and lentils are also symbolic of money. Their small, seed like



appearance resembles coins that swell when cooked so they are consumed with financial rewards in mind. In Italy, it's customary to eat *cotechino con lenticchie* or sausages and green lentils, just after midnight—a particularly propitious meal because pork has its own lucky associations. Germans also partner legumes and pork, usually lentil or split pea soup with sausage. In Brazil, the first meal of the New Year is usually lentil soup or lentils and rice, and in Japan, the *osechi-ryori*, a group of symbolic dishes eaten during the first three days of the new year, includes sweet black beans called *kuro-mame*.

In the Southern United States, it's traditional to eat black-eyed peas or cowpeas in a dish called hoppin' john. There are even those who believe in eating one pea for every day in the New Year.



The custom of eating pork on New Year's is based on the idea that pigs symbolize progress. The animal pushes forward, rooting itself in the ground before moving. Roast suckling pig is served for New Year's in Cuba, Spain, Portugal, Hungary, and Austria—Austrians are also known to decorate the table with miniature pigs made of marzipan. Different pork dishes such as pig's feet are enjoyed in Sweden while Germans feast on roast pork and sausages. Pork is also consumed in Italy and the United States, where thanks to its rich fat content, it signifies wealth and prosperity.

Fish

Fish is a very logical choice for



the New Year's table. The reason? Long before refrigeration and modern transportation, cod could be preserved and transported allowing it to reach the Mediterranean and even as far as North Africa and the Caribbean. The Danish eat boiled cod, while in Italy, baccalà, or dried salt cod, is enjoyed from Christmas through New Year's. Herring, another frequently preserved fish, is consumed at midnight in Poland and Germany—Germans also enjoy carp and have been known to place a few fish scales in their wallets for good luck. The Swedish New Year feast is usually a smorgasbord with a variety of fish dishes such as seafood salad. In Japan, herring roe is consumed for fertility, shrimp for long life, and dried sardines for a good harvest (sardines were once used to fertilize rice fields).



Cakes

Cakes and other baked goods are commonly served from Christmas

to New Year's around the world, with a special emphasis placed on round or ring-shaped items. Italy has *chiacchiere*, which are honey-drenched balls of pasta dough fried and dusted with powdered sugar. Poland, Hungary, and the Netherlands also eat donuts, and Holland has *ollie bollen*, puffy, donut-like pastries filled with apples, raisins, and currants.

In certain cultures, it's customary to hide a special trinket or coin inside the cake—the recipient will be lucky in the New Year. Mexico's *rosca de reyes* is a ring-shaped cake decorated with candied fruit and baked with one or more surprises inside. In Greece, a special round cake called vasilopita is baked with a coin hidden inside. Sweden and Norway have similar rituals in which they hide a whole almond in rice pudding whoever gets the nut is guaranteed great fortune in the New Year.



Sunday January 15, 2017, at 4:00 p.m. Mayor C. Kim Bracey and Lincoln Charter School invite you to *The 5th Annual MLK America's Sunday Supper: Where Do We Go From Here?* The event will take place at Lincoln Charter School, 559 W. King St., York, PA. This is the fifth year for this thought provoking and encouraging event, which will include a community film and discussion regarding Unity, during a free community meal. The event is free and open to the public and doors will open at 3:30 p.m.

Men's toiletries/socks will be collected at the event for young men that attend My Brother's Keeper's Men's Group. Deodorant, toothbrush/toothpaste, razors, shaving cream, shampoo, etc, are all needed.

Tore

Save the date!

A TASTE of YORK CITY is a fundraising dinner and live auction benefiting York City Special Events throughout

the year. This event highlights all the wonderful things that make York a great place to live, work, and play. Dine on a served dinner featuring the fine restaurants of York City. Unique silent and live auction packages celebrating York City are featured. Join in the festivities and mark your calendar for **February 24**th at the Valencia. This is always a sellout event!





"Restaurant Week", IS BACK! York has such unique eateries that a special week is set aside to collectively market and celebrate them. They each bring "to the table" their own special

flavor and flair, ambience and atmosphere that is unparalleled anywhere else in York County or Central PA for that matter! We want to celebrate our restaurants, market vendors and all of our culinary hot spots for 8 Delicious Days and Nights in 2016. Restaurant Week will kick off on Saturday February 25th and will run for eight days, to Saturday, March 4th 2016. Participating restaurants will offer daily specials during the eight days and nights of Restaurant Week. Be sure to check <u>www.yorkcity.org</u> for more details.

Economic and Community Development News



Shilvosky and Councilman Nixon were on hand to welcome Nana's Oven to Farmer's Market,

380 W Market St.

There is a long tradition of baking in Deb Volker's family. Her Nana, Elsie, an immigrant from Hungary taught her to bake the classics when she was 8 years old. Nana's Oven offers a variety of baked goods including sticky buns, scones, individual quiches, dessert breads and several varieties of cookies. Nana's Oven hours-Tuesday, Friday and Saturday 7am- 2:30pm.



The City of York Department of Community and Economic Development and the Human Relations Commission, offered the series Landlord University this fall. The series, supported by many leading industry professionals, helped current and future investors and landlords learn how to properly evaluate properties in which to invest in, that are quality, fair, and affordable housing opportunities. The City of York Human Relations Commission (CYHRC) is pleased to announce the Second Annual



Diversity Event. The Human Relations Awards are presented during the event to individuals or organizations that promote the Commission's goals of diversity, equality, and non-violence, by providing or promoting fairness and equal opportunity in housing, employment, or public accommodation, and/or those who have made significant contributions to the reduction of civil tension or in solving problems resulting from discrimination.

January 11, 2017 5:00 p.m. – 8:00 p.m. York College of Pennsylvania Yorkview Hall, Willman Business Center 401 DuPont Avenue York, PA 17403

Please contact the HRC office at **846-2926** for more information. Tickets may be purchased at Eventbrite.com or by contacting the office at 717-846-2926. Ticket prices are \$40 for adults and \$20 for students.



Rent-A-Kid

The Rent-A-Kid program, sponsored by the York County Area Agency on Aging

(YCAAA), is an intergenerational program bringing older adults and youth together. York County residents, 60 years of age or older, who need help with various indoor and outdoor chores and other odd jobs are matched with youth in their area who can assist. The recommended reimbursement is \$5 per hour, or a negotiated rate based upon the job.

Don't wait - arrange for help BEFORE you need it! Call (717) 771-9103 or 1-800-632-9073 for information on Rent-A-Kid participants in your area.



<u>Medicare Health</u> <u>Insurance Assistance</u>

APPRISE is Pennsylvania's

Health Insurance Assistance Program which provides counseling for all Medicare beneficiaries. APPRISE counselors are specially trained volunteers who have direct access to state and federal Medicare resources. They are able to answer your questions about Medicare, Medicaid, Medigap (Supplement Insurance), Medicare Advantage plans and the prescription drug program. The counselors can:

- Help you understand Medicare benefits.
- Help you understand the Medicare appeal process and assist with appeals.
- Help you understand Medigap and Medicare Advantage plans.
- Help you understand how Medicaid works.
- Help you understand the prescription drug program.
- Help you with benefits and programs you can use to save money.
- Make presentations on Medicare to your organizations.

To schedule an appointment for free one-on-one counseling call the York County Area Agency on Aging's APPRISE Help Desk at (717) 771-9008 or 1-800-632-9073.



SORRY, SON ... THERE'S NO APP FOR THAT

MEMO FROM HR - 2017 HOLIDAYS

City of York Offices will be closed on the following dates in observance of the listed 2017 holidays:



Monday, January 02, 2017 - New Year's Day Monday, Jan. 16, 2017 - Martin Luther King Day Friday, April 14, 2017 - Good Friday Monday, May 29, 2017 - Memorial Day Tuesday, July 04, 2017 - Independence Day Monday, September 04, 2017 - Labor Day Thursday, November 23, 2017 - Thanksgiving Day Friday, Nov. 24, 2017 - Day after Thanksgiving Friday, December 22, 2017 - Christmas Eve Monday, December 25, 2017 - Christmas Day

Employees required to work on a holiday shall be compensated in compliance with their employee handbook or collective bargaining agreement, respectively.



Cheryl Rascoe, Zoning Officer and Charly Forrest, Permits Technician, PP&Z joined Mayor Bracey for the "Walk with the Mayor" during the October walk in Penn Park. The walks will start again in the spring. The William Penn JROTC and Lincoln students have also joined the Mayor, city employees and city residents on their monthly walks.



NOMINEES AND WINNERS

On Saturday November 5, at the Voni Grimes Gym, the City of York held the Inaugural Ray Crenshaw Neighborhood Awards.

The event honored the legacy of service and dedication that Mr. Ray Crenshaw gave to the City of York. The event celebrated City of York community members, businesses, and organizations that have made our community the lively, diverse, and robust York that it is today.

The nominees are listed below in their respective categories. The winners are highlighted in red. Congratulations to all the nominees and winners!

BEST SERVICE PROFESSIONAL NOMINEES

OFFICER JOSEPH COLAHAN WHITE ROSE AMBULANCE YORK CITY DEPARTMENT FIRE/RESCUE SERVICES

> BEST LATIN/SPANISH RESTAURANT NOMINEES EL CARIBE GROCERY • MI CALDERO YORK FRIED CHICKEN

BEST COFFEE SHOP NOMINEES GREEN BEAN ROASTING COMPANY · I-RON-IC NEW GROUNDS ROASTING COMPANY

BEST CORNER STORE NOMINEES BEV'S • EBY'S MARKET • GREEN FOOD MARKET

BEST BARBER SHOP NOMINEES

PHASE 2 KUTZ TONY ORR SONS & DAUGHTERS BABERSHOP WORLD A CUTS

BEST HAIR SALON NOMINEES

BENEATH THE SURFACE SALON DIANE AND ANITA'S BEAUTY SALON DIDI AND SMILING JOHN'S BARBER BEST BEAUTY SUPPLY STORE NOMINEES ACE DISCOUNT · GOLDEN BEAUTY SUPPLY HAIR DEPOT

> BEST NAIL SALON NOMINEES SKY NAILS · SOM NAILS YORKTOWNE HOTEL AND SPA

BEST APPAREL STORE NOMINEES THE NEW HUB · SNEAKER VILLA SWEET MELISSA'S DREAM

BEST RAP & HIP HOP ARTIST NOMINEES

YOUNG VISHIS - DURVEL WILSON, JR LOST CAUSE - KAHLIL A. THOMPSON VISION - EC HOLMES

BEST SINGER NOMINEES

BRITNEY BROOKS • THE ROSSUMS BRIDGETTE SHOCKLEY

BEST POET NOMINEES CARLA CHRISTOPHER · DUSTIN NISPEL JERALD "PROC" PROCTOR

BEST PHOTOGRAPHER NOMINEES RANDY FLAUM · SHELBY SEATON LAWRENCE TYLER

BEST CHURCH CHOIR NOMINEES

BIBLE TABERNACLE CHRISTIAN CENTER FAIRVIEW FULL GOSPEL CHURCH NEW COVENANT COMMUNITY CHURCH

BEST SCHOOL TEACHER NOMINEES

DEB BLAIR · CRISSY WASHINGTON YNISHA WILKES

BEST AFTER-SCHOOL PROGRAM NOMINEES SALVATION ARMY · YAYAGIRLS · YWCA QOP

BEST YOUTH ATHLETE NOMINEES KERRY GLOVER, JR. • DAVEYON LYDNER DURVEL WILSON, JR.

BEST SPORTS COACH NOMINEES KERRY GLOVER · RUSSELL STONER RODNEY WASHINGTON

DEPARTMENT OF PUBLIC WORKS

YARD WASTE FACILITY (Memorial Stadium) is closed for January, February & March.

CURBSIDE YARD WASTE COLLECTIONS will resume in the spring.

UPCOMING HOLIDAY COLLECTION SCHEDULES



Christmas Day and New Year's Day -Collections are not affected and will occur as normal.



CITY OFFICES CLOSED FOR UPCOMING HOLIDAYS

Fri. 12/23 & Mon. 12/26 Monday 1/2/17

6 Christmas Holiday New Year's Day Holiday



CHRISTMAS TREE COLLECTIONS will take place the first (2) full weeks of January. Trees must be bare for

mulching, no tree bag, lights, ornaments or tree stands.

LARGE-ITEM COLLECTION 843-1240

York City Curbside Customers may call Monday through Thursday, 9:00 AM-3:30 PM to <u>schedule up to 5</u> <u>normal household furniture/appliance</u> <u>items</u>. Some items are excluded



from this service and must be handled privately. <u>Items with dead or alive BEDBUGS (must!!) be bagged</u> <u>and sealed before scheduling. Large "mattress bags"</u> <u>are available at U-HAUL. (There is a U-Haul located</u> <u>on Roosevelt Ave near Lincoln Park in York City.)</u>

NEW EMERGENCY NUMBER

THERE IS A NEW SEWER EMERGENCY PHONE NUMBER - 894-1187. THE NEW HOTLINE IS IN EFFECT 24/7 FOR SEWER EMERGENCIES.



REPORT A POT HOLE

Call the hot line @ 717-849-2228 for any street problems-

pot holes, inlets clogged, signs, snow removal or sweeping. Please give exact location (street name, block). This is a 24-hour service that is a recording and is checked daily for messages, OR if you wish to speak with someone call 717-849-2320 between 7:00 a.m. & 3:30 p.m., Monday thru Friday.



The following is the standard operating procedure to properly identify and report problem streetlights located within the City of York.

1. IDENTIFY LOCATION

It is necessary to properly identify the exact location of the streetlight. The name of the street it is located on and the closest address of a building.

The most helpful information to also be included is the pole number. This is a ten-digit number that is located on a yellow metal tag on the pole. An example of this number is 22550-28665. Every pole should have a pole number. If the number is missing from the pole this should be reported along with the exact location.

2. IDENTIFY PROBLEM

Please determine the exact problem with the streetlight.

- A. The streetlight is out.
- B. The streetlight goes on and off.
- C. The streetlight is on during daylight hours.

3. REPORT PROBLEM

The information collected in 1 and 2 should be forwarded to the Bureau of Electrical and Building Maintenance. This can be done through telephone by calling (717)-845-9351 or by email to Carol Godfrey: <u>cqodfrey@yorkcity.orq</u>.

4. REPAIR

The Electrical Bureau will determine the ownership of the light and will either forward the proper information to Met-Ed to correct the problem or will make a repair if it is a city owned light.

5. RECORDING

The Electrical Bureau will log all reports received with the date, the location of the light, and the problem reported. It generally will take Met-Ed two to three weeks to make a repair.

ELECTRONICS RECYCLING

 Effective January 24, 2013 certain items may not be discarded in the normal trash: 1)TVs; 2) Computers; 3) Items that connect to computers (such as printers, modems,



keyboards, etc). These items <u>must be taken</u> by the customer to an Electronics program for proper handling. The York County Solid Waste Authority opens their site to provide electronics recycling services free of charge to York County residents through 2017 at the York County Solid Waste Authority's contractor parking area on Black Bridge Road in Manchester Township directly across the street from the York County Resource Recovery Center. Electronics recycling is conducted every **Tuesday**, **Wednesday and Thursday from 1:30 p.m. to 4:30 p.m.**

*Please Note: In 2017, the Authority will limit the number of TV's accepted to: FIVE TV's PER VISIT For more information call YCSWA at 845-1066 or go to the YCSWA website at www.ycswa.com



The ONLY thing that goes into a storm water drain should be RAIN water. Please remove all litter and leaves around the drain before they get carried away to the creek. Never allow chemicals, soil, street grit, animal waste or vehicle fluids to enter storm water drains.

The new contact person for Stormwater Related (MS4 article) is **Lettice Brown** at 324-6532 or email <u>lbrown@yorkcity.org</u>

LIGHT UP YORK



Crowds gathered on Friday, December 2nd to see the Christmas tree lighting. The event was complete with a reindeer and activities for everyone, from shopping and dining to a holiday movie at the Capitol.



Mayor Bracey had two little guys help her with the countdown to light the tree.



DEPARTMENT OF FIRE RESCUE SERVICES

YORK CITY SMOKE DETECTOR PROGRAM UPDATE

Since the rebirth of the Department's smoke detector program in September of 2013, the Department has installed a total of 2,172 smoke detectors and 189 batteries. The program has benefited approximately 350 City residences.

Please remember to test your smoke detectors monthly.

9/11 Remembered

September 11, 2016, personnel from the Fire Department were honored to take part in many events throughout the community to remember and honor all of those affected by the cowardly attacks that occurred on September 11, 2001, in New York, Virginia, and Pennsylvania.



Crews from York City Fire and YAUFR proudly display the American Flag at an event held at Mission BBQ.

Truck Dedicated in Memory of Fallen Fire Fighter

On Sunday October 2, 2016, members of the Fire Department attended the Old Fire Farts Fire Muster at Cousler Park in Manchester Twp. During this event, a ceremony was held to dedicate the old Truck A tractor drawn aerial device in memory of Donald Harrison who was killed in that truck in the Line of Duty on February 25, 1971.

Truck A was recently purchased by a private collector in Maryland. Deputy Chief Gary Warren retired from the Baltimore County Maryland Fire Department thought it would be appropriate to dedicate Truck A in the memory of Firefighter Harrison. A plaque was placed on the truck and the family of Firefighter Harrison were able to attend the event.





Fire Prevention Week

Fire Prevention Week was held the week of October 9th through October 15th. Department personnel were involved in numerous activities from fire apparatus displays to tours of the fire stations. Department personnel enjoyed being able to meet members of the public and take advantage of the time to show them what they do.





The 59th annual **International Association of Fire Fighters, Local 627** banquet was held on Saturday November 5, 2016, at the Agape Center on Roosevelt Ave. Many personnel attended the event and a good time was had by all.

York County Fallen First Responders Honored

On Sunday, October 16, 2016, members of the York City Fire Department attended an event at the Safekeepers Shrine located in Prospect Hill Cemetery to pay their respects to York County first responders who lost their lives in the line of duty. This event is held every year and it is an honor for the Department personnel to be able to participate.



Department memorial bell with the Shrine in the background.



Retired FF Ken Sheffer playing Amazing Grace at the service.

AWARD PRESENTED

On Saturday November 5th, the Department received an inaugural Ray Crenshaw Neighborhood Award in the **Best** Service Professional category. The awardee's were nominated and



selected by the York community and were presented in honor of the legacy of service and dedication that Mr. Ray Crenshaw has given to the City of York. The award reflects the dedication, commitment, and service that all of our personnel, active, retired and volunteers, have given and continues to give to the City.

American Red Cross Spirit of the Hero Awards



York City Deputy Fire Chief **Chad Deardorff**, and firefighter **Erik Swanson** (3rd and 4th from the left), were honored along with White Rose Ambulance personnel at the American Red Cross Spirit of the Hero Awards on November 17th for an Animal Rescue. They all contributed to save the lives of two dogs they rescued from a multihome fire in the 700 block of West Princess Street in December 2015. Swanson pulled the dogs from the York home, and Deardorff, White Rose EMT's Cabrera and Sneeringer administered oxygen to a Chihuahua that was found in the basement using a pet resuscitation mask.



Deputy Fire Chief Chad Deardorff at the American Red Cross Spirit of the Hero Awards with his children Adam, 6 and Sophia, 5.



Can you guess who is behind the masks? York County Commissioner Susan Byrnes fought a live fire with Deputy Chief Chad Deardorff at the York County Fire School in Manchester Township.



When the York City School District put out the word that the schools needed mentors for students, Chief David Michaels and Barbara answered the call and now work with the freshman mentoring program. They say the effort has been helpful to the students they mentor and rewarding to them. They encourage others to consider following their lead and mentor city students.

> Come and spend an Evening with SANTA and Mrs. Claus!

> > Thursday December 15th 6 - 9 pm

Lincoln Fire Station corner of Roosevelt and Maryland Ave York



Sponsored by: Tyler Brown Photography and York City Firefighters Local 627



WINTER FIRE SAFETY TIPS FOR THE HOME

The high cost of home heating fuels and utilities have caused many Americans to search for alternate sources of home heating. The use of wood burning stoves is growing and space heaters are selling rapidly, or coming out of storage. Fireplaces are burning wood and man-made logs.

All these methods of heating may be acceptable. They are however, a major contributing factor in

residential fires. Many of these fires can be prevented. The following fire safety tips can help you maintain a fire safe home this winter.

KEROSENE HEATERS



- Be sure your heater is in good working condition. Inspect exhaust parts for carbon buildup. Be sure the heater has an emergency shut off in case the heater is tipped over.
- Never use fuel burning appliances without proper room venting. Burning fuel (coal or kerosene or propane, for example) can produce deadly fumes.
- Use ONLY the fuel recommended by the heater manufacturer. NEVER introduce a fuel into a unit not designed for that type fuel.
- Keep kerosene, or other flammable liquids stored in approved metal containers, in well ventilated storage areas, outside of the house.

- NEVER fill the heater while it is operating or hot. When refueling an oil or kerosene unit, avoid overfilling. DO NOT use cold fuel for it may expand in the tank as it warms up.
- Refueling should be done outside of the home (or outdoors).
- Keep young children away from space heaters--especially when they are wearing night gowns or other loose clothing that can be easily ignited.
- When using a fuel burning appliance in the bed room, be sure there is proper ventilation to pre-vent a buildup of carbon monoxide.

WOOD STOVES AND FIREPLACES

Wood stoves and fireplaces are becoming a very common heat source in homes. Careful attention to safety can minimize their fire hazard.

To use them safely:

- Be sure the fireplace or stove is installed properly. Woodstoves should have adequate clearance (36") from combustible surfaces, and proper floor support and protection.
- Woodstoves should be of good quality, solid construction and design, and should be UL listed.
- Have the chimney inspected annually and cleaned if necessary, especially if it has not been used for some time.
- Do not use flammable liquids to start or accelerate any fire.
- Keep a glass or metal screen in front of the fireplace opening, to prevent embers

or sparks from jumping out, unwanted material from going in, and help prevent the possibility of burns to occupants.

- The stove should be burned hot twice a day for 15-30 minutes to reduce the amount of creosote buildup.
- Don't use excessive amounts of paper to build roaring fires in fireplaces. It is possible to ignite creosote in the chimney by overbuilding the fire.
- Never burn charcoal indoors. Burning charcoal can give off lethal amounts of carbon monoxide.
- Keep flammable materials away from your fireplace mantel. A spark from the fireplace could easily ignite these materials.
- Before you go to sleep, be sure your fireplace fire is out. NEVER close your damper with hot ashes in the fireplace.
 A closed damper will help the fire to heat up again and will force toxic carbon monoxide into the house.
- If synthetic logs are used, follow the directions on the package. *NEVER* break a synthetic log apart to quicken the fire or use more than one log at a time. They often burn unevenly, releasing higher levels of carbon monoxide.

FURNACE HEATING

It's important that you have your furnace inspected to ensure that it is in good working condition.

• Be sure all furnace controls and emergency shutoffs are in proper working condition.

- Leave furnace repairs to qualified specialists. Do not attempt repairs yourself unless you are qualified.
- Inspect the walls and ceiling near the furnace and along the chimney line. If the wall is hot or discolored, additional pipe insulation or clearance may be required.
- Check the flue pipe and pipe seams. Are they well supported, free of holes, and cracks? Soot along or around seams may be an indicator of a leak.
- Is the chimney solid, with cracks or loose bricks? All unused flue openings should be sealed with solid masonry.
- Keep trash and other combustibles away from the heating system.

OTHER FIRE SAFETY TIPS

- Never discard hot ashes inside or near the home. Place them in a metal container outside and well away from the house.
- Never use a range or an oven as a supplemental heating device. Not only is it a safety hazard, it can be a source of potentially toxic fumes.
- If you use an electric heater, be sure not to overload the circuit. Only use extension cords which have the necessary rating to carry the amp load. **TIP**: Choose an extension cord the same size or larger than the appliance electrical cord.
- Avoid using electrical space heaters in bathrooms, or other areas where they may come in contact with water.
- Frozen water pipes? Never try to thaw them with a blow torch or other



open flame, (otherwise the pipe could conduct the heat and ignite the wall structure inside the wall space). Use hot water or a UL labeled

device such as a hand held dryer for thawing.



• If windows are used as emergency exits in your home, practice using them in the event fire should strike. Be sure that all the windows open

easily. Home escape ladders are recommended.

• If there is a fire hydrant near your home, you can assist the fire department by keeping the hydrant clear of snow so in the event it is needed, it can be located.

FINALLY . . .



- Be sure every level of your home has a working smoke alarm, and be sure to check and clean it on a monthly basis.
- Plan and practice a home escape plan with your family.
- Contact your local fire department for advice if you have a question on Home Fire Safety.







Lise Levin, Vice President of Community Investment at the York County Community Foundation gives Barbara Kovacs, Health Bureau Director, a \$28,000 check from the Memorial Health Fund to implement a data management system.



Dr. Michael Goodstein of Wellspan Health and Director of the York County Cribs For Kids Program, joined Mayor Bracey to recognize National SIDS (Sudden Infant Death Syndrome) Awareness Month in October.

Sudden Infant Death Syndrome (SIDS) Awareness Month is designated to enable communities with awareness and information on how they can meet the needs of the bereaved mothers, fathers, and family members, while working to prevent these tragic deaths.

BIKES FOR LOGOS STUDENTS



Health Bureau employees **Craig Walt** and **Paige Nenstiel** took donated bikes from Gung Ho Bikes to Logos Academy students. Happy Holidays!



Rise Chambers, Health Bureau, sent this picture of her granddaughter Kayla Chambers, age 10. Kayla is a member of the Junior Sparks cheerleading in New Jersey. They recently won first place in the 2016 Pocono regional cheerleading! This group of girls have only been working together since September 2016! Kayla is the oldest daughter of Rise's son and daughter-in-law CJ and Jenn Chambers. They are all very proud of her!

'Tis the Season to Remember to Drive Safely



The excitement of seeing friends and family during the holidays encourages many to hop in their vehicles to travel, but remember that automobile accidents greatly increase

around holiday seasons. Festive drinking and distractions coupled with winter weather can be combinations for a fatal accident. Last year, PennDOT reported 4,985 crashes and 46 fatalities statewide in the Christmas and New Year's travel periods alone. Keep yourself, family and friends, and other driver's safe this holiday season by avoiding these three major risk factors for an accident and following safety rules.

1. Don't Drink and Drive. In 2015, there were 53,319 DUI arrests in PA, though getting behind the wheel while drunk can cost much more than a DUI arrest. Impaired drivers account for about one-third of all traffic-related deaths in the United States. Instead of risking lives, think ahead, whether your ride home will be a designated driver or taxi service, plan for holiday festivities. Encourage those around you to do the same and do not let anyone drive home impaired. Lastly, drink responsibly. Remember that everyone is different and metabolizes alcohol at different rates based on their metabolism and BMI. Though you may not feel impaired, your senses can be lessened and reaction times slowed.

2. Keep your eyes on the road. Though a 'Happy Holiday!' text may be good



intentioned, texting and driving is a serious risk factor for an accident. Avoid texting

and talking on the phone while driving a vehicle, as well as any other distractions. Distractions can be tempting, like eating or talking to passengers, especially if traveling far distances, but remember to use common sense while on the road. If you need to, plan ahead some extra time to pull over for a bite to eat and check your phone.

3. Check the weather. If at all possible, avoid driving in inclement winter weather, such as snow and ice. If you



need to drive, make sure to follow all **safety tips**. Stay alert by getting enough sleep before traveling, know what to do in different types of adverse driving situations, and be prepared. Keeping at least half a tank of gas in your vehicle and emergency car kits are great ways to **prepare** for possible winter travel emergencies.

THE FLU AND YOU



It's not too late to get a flu vaccine. Vaccines are recommended for everyone 6 months of age and older.

Why get vaccinated against influenza (flu)?

The best way to protect against influenza (flu) is to get a flu vaccine every flu season. Flu is a contagious respiratory disease that can lead to serious complications, hospitalization, or even death. Every flu season is different, and influenza infection can affect people differently. Even healthy people can get very sick from the flu and spread it to others. The first and most important step in protecting against flu is to get a flu vaccine each season.

It is important to get your flu vaccine EVERY year, because

 Flu viruses are constantly changing, so flu vaccines may be updated from one season to the next to protect against the viruses that research shows will be most common during the upcoming flu season.

• A person's immune protection from the flu vaccine declines over time. Yearly vaccination is needed for the best protection.

Who should get a flu vaccine?

Everyone is at risk for seasonal influenza. CDC recommends everyone six months and older get a flu vaccine.

While the flu can make anyone sick, certain people are at high risk of serious flu complications. Flu vaccination can help protect people who are at high risk of getting seriously ill from flu and people who care for those at high risk for flu-related complications:

- Pregnant women, children younger than 5 years, but especially children younger than 2 years old.
- People 65 years of age and older, people of any age with certain chronic medical conditions.

• People who live in nursing homes and other long-term care facilities, people who live with or care for those at high risk for complications from flu, including: Health care workers, household contacts of persons at high risk for complications from the flu. Household contacts and out of home caregivers of children younger than 6 months of age (these children are too young to be vaccinated).

What are the benefits of getting the flu vaccine?

The flu vaccine can provide:

- Protection for yourself.
- Protection for newborns and infants who are too young to get vaccinated.
- Protection for other people at high risk of serious complications from flu.

Protect yourself and your family from flu: get vaccinated!



Mark Your Calendars for the 2017 YORK COUNTY SENIOR GAMES

The 2017 York County Senior Games will be held June 19 through June 23. Any York County resident 50 years of age or older by December 31, 2017 is eligible to participate. Anyone who participated in the 2016 Senior Games will automatically receive a registration booklet in the mail in April. For more information or to be added to the mailing list call (717) 771-9001, or visit the Forms and Documents page of <u>www.ycaaa.org</u> after April 1st to download the registration booklet and form.

Volunteers are needed to assist with various aspects of the Games. Any individuals or community groups willing to spare a few hours and have some fun should call (717) 771-9001 or email <u>aging@yorkcountypa.gov</u>.



Can you find the Ninja Turtle and Princess? Lincoln Charter School joined Mayor Bracey for her October walk in Penn Park and the students came dressed as their favorite storybook character.




The ribbon is cut for the opening of the Handsome Cab at 106 North George Street.

Mayor Bracey Around the Town



Mayor Bracey visits the construction site at the corner of Beaver and Market where Isaac's on the Fly (restaurant) and Revi Flats (apartments) will soon be opening.



Mayor Bracey enjoyed her time with the seniors when she visited the White Rose Senior Center for their annual Christmas party.

What could be more fun than visiting a pre-kindergarten class to brighten your day? These youngsters at Goode Elementary are ready and eager to learn!





MARCH 2017

1	Jason Brown	Info Services
	Dustin Gehron	Police
3	Mark Stell	Highway
5	Michael Helfrich	City Council
6	Paul Thorne	Police
7	Maribel Otto	Finance
8	Daniel Kling	Police
9	Sarah Larouche	WWTP
	Mary Shoff	Parking
10	James Hollinghead	WWTP
	Timothy Hibner	Parking
11	Timothy Bair	Fire
	Scott Nadzom	Police
	Charles Delauder	Bldg. Maintenance
12	Clifton Frederick	Fire
13	Jackie Marrero	Police Com. Ser.
15	Francine Jackson	Bus. Admin.
16	Nicole Davis	Eco./Comm. Dev
19	Brian Winters	Info Services
20	Tonya Thompson-Mo	rgan HRC
23	Deborah Painter	Housing
23	Jeremy Mayer	Police
24	Michael Meeker	Police
	Donald Davis	Police
25	Rhoda Dickerson	Police
	Kyle Hower	Police
	Andrew Riedy	Police
26	Rupal Khanvazir	Controller
	Ralph Glover	Highway
27	Patricia Maher	PP&Z
28	Michael Reinert	Police
	Kendale Harris	Bldg. & Elec.
29	Fred DeSantis	Fire
30	Melvin Boanes	Env. Services

APRIL 2017

5	Sara Hoh	MIPP
6	Henry Nixon	City Council
	Albert Murray Sr	Bldg. Maintenance
7	Kriss Smith	Bldg. Maintenance
11	Kevin Pflaum	Fire
12	Rise Chambers	Health
	Adam Smith	Fire
13	Carol Downs Brady	Treasurer's Office
	Glenn Jansen	Fire
14	Patricia Seibert	Solicitor's Office
	Raheem McCray	Recreation
16	Keith Ramsay	Fire
17	April Bupp	Human Resources
18	Corey Ames	Police
19	Jason Jay	Police
20	Chhoeuth Yeng	WWTP
21	Thomas Hunt	Human Resources
23	Wanda Ruffin	Finance
	Charles Moyer	Highway
24	Michael Doweary	Business Admin
25	Richard Barth	Police
	Daniel Craven	Police
26	Daniel Aikey	Police
	Matthew Leitzel	Police
27	Hugh Ortner	Recreation and Parks
28	Hidalgo Diaz Arias	WWTP

<u>MAY 2017</u>

2	Glenn Knauer	Police		
3	Kathy Arnold	Recreation		
7	Carol Godfrey	Bldg/Elec		
	Thomas Ray	Human Resources		
9	Mark Bowman	Fire		
	Craig Walt	Health Bureau		
13	Matthew Tunall	Police		
15	Pamela Yeaple	Finance		
	Kraig Spangler	Fire		
	Dianna Thompson-M	itchell City Council		
17	Nicole Smith	Health Bureau		
18	Steven Buffington	PP&Z		
	Micelania Acevedo	PP&Z		
	Matthew Brose	WWTP		
19	Veronica Chavez	MIPP		

- 21 Erik Kleynen Police
- 22 Shanell Newman-Barnes Finance
- 22 Kevin Howell Sewer Maintenance Daniella Hutcherson WWTP
- 23 Cherie Alwine Finance Denise Conrad Police Brian Riley Information Ser.
 27 Roger Nestor Police Michael Ebersole Police Christopher Martin Police



TO EMPLOYEES WITH 10 YEARS AND MORE OF SERVICE !

MARCH 2017

Brandon Anderson	WWTP	10 years
Patricia McDowell	Fire Admin	10 years
Michelle Cocklin	Public Works	13 years
Cheryl Grant	Parking	18 years
George Jennings	Recreation	18 years
Steven Bowman	Fire	19 years
Bernard Baxter	Fire	19 years
Wade Fleming	Fire	19 years
Marc Ott	Fire	19 years
Darryl Maxfield	Fire	20 years
William Collins, Jr.	Fire	20 years
Randy Rauhauser	Fire	21 years
William Crenshaw, Jr	Fire	21 years
David Ferguson	Fire	21 years
David Bowman	Fire	21 years
Donald Newcomer	Fire	22 years
Kraig Spangler	Fire	22 years
Chad Deardorff	Fire	22 years
Darryl King	Fire	22 years
Rise Chambers	Health	23 years
Ray Ferguson	Bldg Maint	23 years
Jeffrey Miller	Fire	24 years
Kevin Holtzapple	Fire	25 years
Gil Kimes	Fire	25 years
William Sleeger	Fire	25 years
Bryan Smallwood	Fire	25 years
Paul Walters	WWTP	25 years
Jeff Sunday	WWTP	27 years
Timothy Bair	Fire	28 years

Paul Bievenour	Bldg & Elec	28 years
Steven Buffington	PP&Z	35 years

APRIL 2017

Cynthia Wolford	Parking	11 years
Jason Brown	IT	11 years
Kyle Hower	Police	11 years
Gladys Zimmerman	Police	12 years
Peter Rodriguez	Parks	15 years
Frank Rodgers Jr.	Env. Ser.	16 years
Melvin Boanes	Env. Ser.	25 years
Kathy Arnold	Recreation	28 years
Mark Stell	Highway	28 years
Mark McCartney	Police	30 years
Richard Barth	Police	36 years
Allen Fuentes	Fire	38 years

<u>MAY 2017</u>

Richard Kinnard	Parking	10 years
Rebecca Schweitzer	Parking	13 years
Derrick Millhouse	Police	17 years
Richard Kehler	Police	17 years
Derek Hartman	Police	17 years
Brian Lehman	Police	17 years
Jason Jay	Police	17 years
Sheldon Hooper	Police	19 years
Timothy Shermeyer	Police	19 years
James Hollingshead	WWTP	19 years
Scott Nadzom	Police	22 years
Todd Stough	Fire	24 years
John Hedrick	Highway	27 years
Timothy Utley	Police	27 years
Erik Kleynen	Police	27 years
Ronald Schrum	Bld & Elec	27 years
James Fells	Police	30 years
Bruce Buchanan	Env Services	39 years



Daylight Savings Time begins **Sunday**, **March 12th**. Remember to turn your clocks ahead! A sure sign that spring has arrived! Please Welcome Our Newest Employees! Kendale Harris, Building and Electrical; Hugh Ortner, Recreation and Parks, Judy Ritter-Dickson, City Council; Nicole Smith, Health Bureau; Raquan Smith, Finance. Galen Detweiler, Dakota Fauver, and Michael Harris were all sworn in as Probationary Police Officers.

New City Controller AliceAnne Frost

As a native of Pittsburgh, PA AliceAnne Frost first came to the city of York to attend York College of Pennsylvania. After graduating with her degree in Accounting



AliceAnne began working as an auditor at a public accounting firm in Lancaster, PA. She later moved on to become an Accounting Manager at a manufacturing company in Hanover, PA while simultaneously working as the CFO of The Program, "It's About Change", a 501 (c) (3) grassroots nonprofit in Harrisburg, PA. Currently, AliceAnne serves as the CEO of The Program, "It's About Change", which is devoted to helping assist women ex-offenders reenter society after incarceration. AliceAnne was selected by City Council to fill the office of City Controller in January 2017 and was sworn into office in February 2017.

STREET SWEEPING BEGINS



Weather permitting, street sweeping will resume in the City of York on **Wednesday, March 15, 2017**. The first night of sweeping will be on

streets posted for the third Wednesday of the month from 12:00 A.M. to 6:00 A.M. Anyone with questions about street sweeping can call the *Highway Bureau at 849-2320*.

SUMMER YOUTH EMPLOYMENT PROGRAM

The Department of Economic and Community Development thru the



Bureau of Housing Services will once again sponsor a Summer Youth Employment Program this year. The goal is to place students, ages 16-18, into various departments in City government for a meaningful work experience. Participants will work a total of 25 hours per week at \$8.75 per hour. Work day hours should start at 9am and end at 2:30pm (half hour unpaid lunch). This program will be sponsored using Community Development Block Grant funding. If you can accommodate a summer worker, please contact James Crosby, Housing Bureau.

NEW WEBSITE AND APPS FOR CITY

The City of York has a new website and App, as well as a new App for the Police Department. The City of York's App for Android and Apple devices will keep residents, businesses, and visitors updated on city of York events, the ability to make sewer payments, pay parking tickets, report quality of life items, and much more.

The York City Police Department's App provides the ability for community members to provide tips and receive alerts about information pertaining to the York City Police Department. Apps for the City of York and York City Police Department can be downloaded at the following places:



<u>City of York App</u>

Apple: <u>https://appsto.re/us/y7IQhb.i</u> Android:<u>https://play.google.com/store/apps/details?i</u> <u>d=com.cityofyork&hl=en</u>

York City Police Department App

Apple: <u>https://itunes.apple.com/us/app/york-</u> <u>city-pd/id1203814975</u>

android:<u>https://play.google.com/store/apps/det</u> ails?id=com.citizenobserver.yorkcitypd



MAYOR BRACEY'S STATE OF THE CITY ADDRESS

Mayor C. Kim Bracey's sixth State of the City Address will be held on

Tuesday, April 25th, at the Valencia Ballroom, 142 North George Street at 7:00 pm. The Mayor's address will highlight the accomplishments of 2016 and share Mayor Bracey's goals for an exciting and prosperous 2017. The public is invited to attend a 6:00 pm reception prior to the Mayor's Address at 7:00 pm. Admission to the reception is \$10 and reservations are encouraged. There is no charge to attend the Mayor's State of the City Address.

The York Awards will be presented during the reception. Nominations are now being accepted for the York Unity Award, York Entrepreneur Award, York Leadership Award, York Humanitarian Award, York Public Arts Award and the YorkScape Award. The nomination form is available on the City's website at <u>www.yorkcity.org</u>. Nominations are due Tuesday, March 28th.



Mayor Bracey visited Washington DC on February 8th when she participated in the National League of Cities "City Hall 101" congressional briefing which provided insight on city issues.

Did You Know?

A healthy and helpful tip from WellSpan EAP



Hold the door...it's an instant mood booster

Performing a random act of kindness can be an instant mood booster. Studies find that those

who perform acts of kindness for others report feeling happier and experience an overall improvement to their mood.

When performing a random act of kindness there is a release of dopamine (a feel-good neurotransmitter) in the brain. Random acts of kindness help us shift the focus from ourselves to others. Higher levels of daily positive emotion and overall better mental health were reported in those that helped others. It also has a positive effect on how we respond to stress.

Looking to spread the love and boost your mood? Here are a few suggestions:

- Hold the door for someone
- Compliment someone
- Write an email/note praising someone
- Send someone a card
- Send a "thinking of you" text
- Let someone know how much you care about them

Take care of yourself and others by practicing a simple random act of kindness.

Blue365 is a great way to make living well more affordable. For members of participating Blue Cross and Blue Shield Companies, Blue365 offers discounts on fitness gear, gym memberships, healthy eating options and more. Blue365 offers access to savings on items that members purchase right on the Blue365 website or on the healthy-living Vendor's websites. Visit www.blue365deals.com for details.

Community Family Game Night

Community Family Game Night will feature the



opportunity for youth and families to engage in the play of Monopoly and Scrabble board games, to encourage quality family time, while fostering key life skills and educational components.

Youth and families will have the opportunity to enjoy a free meal, as well as a free board game to take home. The event will be held on Friday March 31, 2017, 6:00 p.m. - 8:30 p.m. at the Voni Grimes Gym, 125 E. College Avenue, York, PA. The event is free and open to the community.

Donations of NEW board games of Monopoly and Scrabble are being accepted to provide to youth and families to take home after the event. Donations can be dropped off at City Hall.



parking lot between 7:30 am and 8 am to register and pick up supplies. The cleanup is from 8 am until 11 am.

Memorial Park Batting cages open April 3 through the end of September. Monday through Thursday 5-9 pm and Saturday and Sunday 12-4 pm. \$1.00 for 14 pitches. Available for rentals 15, 30 or 60 minutes.

The 18th Annual William Shaffer "Kids



Hooked On Fishing" Trout Fishing Derby

The Fishing Derby is **Saturday**, **April 1st at** Kiwanis Lake, 8 am

till noon. Children ages 1 to 15 are invited to participate in this annual free event. Prizes are awarded to the largest fish caught. This is a child only fishing derby. Volunteers will be on hand to assist children who may need help with baiting hooks and removing fish. Come early to find your lucky spot! The Izzack Walton League, York Chapter, will stock the lake with hundreds of trout. The derby is sponsored by the York City Recreation & Parks Bureau, Izzack Walton League of York, Rotary Club of York, Kiwanis Club of York, Schaad Detective Agency and Brickers French Fries.

YORK CITY LITTLE LEAGUE GETTING READY FOR OPENING DAY



York City Little League has been serving City youth for the past eleven years and is now preparing for their 13th season. Opening day is Saturday, April 8th at Allen Field. York City Little League, offers playing opportunities for children ages 4

through 13. With low registration fees, York City Little League offers a tremendous value to the community, the baseball players and parents. Thousands of players have participated in the league since its inception.

YCLL's top priority is to offer a fun environment that helps build character, integrity and good sportsmanship. Visit <u>www.yorkcitylittleleague.org</u> to learn more about the program, and to sign up as a volunteer or sponsor.



42nd Annual Easter Egg Hunt

The Annual East Egg Hunt will be held at Kiwanis Lake on **Saturday**, **April 8**th,

1:00 pm. Children between the ages of 1 and 8 years of age will be able to gather candy filled plastic eggs with the hopes of finding a prize egg. Lifepath Ministries will be on hand with arts & crafts, games and free hot dogs. Event sponsors are York City Recreation and Parks, Lifepath Ministries, City View Community Church, ES3 and York Grace Brethren Church. (Rain date, Sunday, April 9 at 1 pm)

BOX LUNCH REVUE



Each Tuesday and Thursday, May 2 through August 31, enjoy FREE musical entertainment in Downtown York's Cherry Lane from 11:30 am to 1:00 pm. Many musical genres

are represented, including jazz, folk, indie, country, classic hits, Irish, Hawaiian, blues, cigar box guitar, hip hop, and more. In the event of inclement weather, most performances will be moved indoors to Central Market.

Olde York Street Fair Sunday, May 14 12:30 to 6:00 PM



The Olde York Street Fair has been a Mother's Day tradition

for 42 years. This annual arts and crafts event is held in downtown York and is enjoyed by thousands of families each year. More than 250 craft and food vendors line the streets to sell their goods while four live performance stages and strolling entertainers fill the air with the sounds of music and fun. A kid's fun block includes inflatables, games and face painting.



The Free Summer Movie Series will be back in June at Kiwanis Lake with PG/family movies.

Wednesday evenings June 7th - July 26th.

Summer Parks & Playgrounds



June 19th - July 27th Day Camp Hours

Monday - Thursday, 10:00 am to 4:00 pm Park Sites: Allen Park, Bantz Park, Lincoln Park, Memorial Park Complex, and Yorktown Park. Activities: Arts & crafts, games and field trips* *Additional fees for field trips FREE Lunch provided at all park sites.

Register June 12th through June 15th, 4:30 to 6:30 pm (Ages 6-13) Registration Location: City Hall Park Limit: 40 Students at each site Cost for the six (6) week program: City Residents - \$25.00 for 1st child / \$20.00 each additional child Non-City - \$55.00 for 1st child / \$50.00

24th Annual Art in the Park Program

Art in the Park is celebrating 24 years of offering free art and craft programs to City Youth. The program will be held Monday through Friday from 6:30 to 7:30 pm at the following parks:



Allen Park - June 19th through July 23rd Yorktown Park - June 26th through June 30th Albemarle Park - July 3rd through July 15 Lincoln Park - July 10th through July 14th Penn Park - July 17th through July 21st

CENTRAL MARKET OFFERS 5 NEW VENDORS

Pastries of France -Beautiful macarons and pastries. Their second Downtown York location!

The Boys' Barking Bakery Doggie Treats



Offering a selection of all natural dog treats that are baked fresh every week. There is a variety of flavors and specialty treats.

Locust Point Cattle Company-Locust Point Cattle Company was established in 2015 to raise and market all natural grass-fed angus. Selling everything from steaks and roasts to bones! Plus memberships!

Sushi by Joony-Fresh sushi rolls have returned to Central Market!



Helmut's Strudel - Puff pastry at its best means Helmut's Strudel. Selectively served since 1976 at Oktoberfests, Festivals, Fairs, Arts and Crafts Shows and Conventions. From Florida to New York and Texas to Ohio, this Austrian recipe for Apple, Cherry, Cheese and Almond/Apricot Strudel is Strudelicious!

and opening in April

Ewe and Me Yarn Shop 36 North Beaver Street



Ewe and Me is a new yarn shop on North Beaver Street selling yarns and tools for knitters and crocheters in Downtown York.

Ewe and Me also opens their doors to be a "hang out" for knitters to work on their works-inprogress!

Free Concert Series

The free concert series is back at James E. (Jim) Gross Park (formerly Lincoln Park). Concerts begin at 7:00 pm, weather permitting. Bring your favorite snack, lawn chair or blanket to enjoy the show. Concerts feature Jazz, R&B, Top 40 and Classic Rock. The complete schedule will be available in May.

New Restaurant to Open



On Monday, March 27, Isaac's Restaurants is opening a new express model restaurant, Isaac's on the Fly, at the corning of Market and Beaver Streets in Downtown York. This restaurant will offer the fastest service by any Isaac's and will unveil a lineup of awesome breakfast sandwiches, lunch fare, new fresh salads, made-from-scratch soups, lattes, espressos, and coffees.



Interior of the new Isaac's.

Police Department News



Heroin Forum Announced

On March 22 at 7:00 PM the York City Police will present an educational forum on heroin to the citizens of York County. The presentation will be at York City Council Chambers. The purpose of the forum is to educate parents and young adults using "real world experiences". The instruction will be presented by three narcotics detectives that have a combined 60 years of experience. Their knowledge is based on hundreds of investigations and interviews with heroin users and dealers. The discussion will be candid and The detectives will present heroin uncensored. in different forms and speak about the paraphernalia used to sell and ingest heroin. There will also be a power point presentation along with a question and answer period. Also assisting in the presentation will be Lt. Fells (York City Community Services), Not One More York Chapter and Dr. Howie (York City Bureau of Health). The detective's presentation is also available for other organizations and agencies in York County. Call 577-8856 to schedule a time and date.

NEW OFFICERS JOIN CITY PD

Two City of York Probationary Police Officers were sworn in on January 4th by Mayor Bracey at York City Hall, in City Council Chambers.

Michael Harris, a native of Baltimore, and a Navy veteran having served in the Persian Gulf War is married with children and was employed by Lowes prior to being hired by the City of York.

Dakota Fauver, a graduate of York Suburban, is married and served as an infantryman in the US Marine Corps.



left to right - Dakota Fauver, Michael Harris Mayor Bracey and Chief Kahley



On Thursday, February 2nd Probationary Police Officer Galen Detweiler was sworn in by Mayor Bracey at York City Hall

Galen attended Hempfield High School and graduated from West Chester University of Pennsylvania with a BS in Criminal Justice in 2011. His prior law enforcement experience includes 2 seasons as a seasonal officer in Ocean City Maryland and as a full time officer with Baltimore since 2012.



Department of Fire and Rescue Services

YORK CITY SMOKE DETECTOR PROGRAM UPDATE

Since the rebirth of the Department's smoke detector program in September of 2013, the Department has installed a total of 2,234 smoke detectors and 191 batteries. The program has benefited approximately 350 City residences.

Please remember to test your smoke detectors monthly.

Training Provided

Congratulations to the 18 fire department personnel who have taken the time to successfully complete the Fire Instructor I & II and/or Fire Officer I & II classes. We were able to host this class in house due to the Assistance to Firefighters Grant (AFG) that was awarded by the federal government in 2016.

Fire Personnel to Carry Naloxone

Thanks to a grant secured by Dr. Howie and his staff from the York City Health Bureau, the Fire Department received 200 doses of Naloxone injectable. Effective January 10, 2017, Fire Department personnel are now able to administer naloxone along with York City PD.

This change is in part to an updated law that allows Basic Life Support (BLS) providers authority to administer this medication under a new protocol and medical direction. Prior to this change, this was an Advanced Life Support (ALS) protocol and one that ALS units have been providing for over 30 years.

Structure Fire With Entrapment

On Tuesday January 31, 2017, at 6:55 p.m., Fire Department personnel were dispatched to 357 W Philadelphia St. for a residential structure fire. The 911 center advised all units during response that White Rose Ambulance personnel were on the scene and called this in as a working structure fire. They were dispatched to this same location for a medical emergency alarm and when they arrived they found the fire.



357 West Philadelphia Street

White Rose Ambulance personnel assisted one adult and one child from the 3^{rd} floor rear to safety as the fire was in the front of the building and those occupants were unable to come down the interior stairwell. The occupant on the 2^{nd} floor was still to be inside. Crews entered the structure and were able to remove the unconscious subject.

Due to teamwork of everyone involved, we are pleased to be able to say that the subject was revived and has since been discharged from the hospital.

Spring Forward

On Sunday March 12, 2017, when you turn your clocks ahead one hour, do not forget to change the batteries in your smoke detectors. This could be the difference between life and death.

Fire Safety House

On December 4, 2016, a fundraiser was held at Station 99-9 to raise funding for the Fire Department to obtain a fire safety house. This event raised not only funding from that event but due to media coverage, the Department was also able to obtain additional funding through a grant from Glatfelter Insurance.

Baby Announcement

Congratulations to Glenn and Jenna Jansen on the arrival of their first child. Lily Elizabeth Jansen arrived on December 16, 2016 at 11:51 a.m. Lily weighed in at 6 pounds, 6 ounces and was 19.75 inches long. Jenna and Lily are home and doing well.



Santa Claus Photos

The annual photos with Santa was held on December 15, 2016, at Station 99-9. This annual event is sponsored by many organizations. Tyler Brown Photography donates time and material to ensure children and families are able to have a picture taken with Santa and Mrs. Claus. This is a well-attended event. On-duty and off-duty firefighters are there to assist and to meet with children and the public. This is a great event that we hope to see everyone at next year.



L-R: Front Row Robert, Santa, Shea Back Row: Chief Michaels & wife Barb Chief and Barb are mentors to Shea and Robert



L-R: Front Row: Adam, Santa, Sophia and wife Jessica Back Row: Chief Michaels & Deputy Chief Deardorff (Adam and Sophia are D/C Deardorff's children)



Members of the Department along with Representative Carol Hill-Evans and Anne Jaurez Clark, Lincoln Charter School

ANNUAL MEMORIAL SERVICE



The 141st Annual Memorial Service of the York City Dept. of Fire/Rescue Services will be held on Sunday,

April 30, 2017, at St. Matthew Evangelical Lutheran Church at 839 W. Market St. There will be a prelude concert on the portico (porch) by the Kiltie Band of York at 6:45 p.m. Everyone is welcome to attend this beautiful and moving memorial service that pays tribute to our members who have passed away during the past year with The Rev. Kevin T. Shively, pastor and Dept. Chaplain presiding.

Spring Fire Safety Tips

Spring has sprung and that means lots of grilling, lots of entertaining, and unfortunately, lots of opportunities for residential fires to occur. Spring is also the time to ensure you own safety by changing out your smoke detector batteries when you set your clock ahead for daylight savings.



BBQ / Grill Fire Safety

According to the National Fire Protection Association (NFPA): More than one-guarter (29%) of

the home structure fires involving grills started on a courtyard, terrace or patio, 28% started on an exterior balcony or open porch, and 6% started in the kitchen.

Position the grill well away from the residence. Do not place your grill directly next to siding, deck railings, extended eves, or below overhanging branches / leaves.

Do not place your grill near or under utility pole wires that may be coming into your house. Place the grill a safe distance from any kind of foot traffic. Keep children and pets away from the grill area by declaring no less than a 3-foot zone around the grill.

Make several different types of long-handled grilling tools available to the parties cooking on the grill to ensure plenty of clearance from heat and flames when cooking food.

Periodically remove grease or fat buildup in trays below grill as well as on the grill rack itself, so it cannot be ignited by open flame / heat.

Use grills outdoors with the exception of something such as a George Forman grill that is made to be used indoors. If grills are used indoors, or in any enclosed spaces, such as tents, barbecue grills pose both a fire hazard and the risk of exposing occupants to carbon monoxide.

Charcoal:

Be very careful when using charcoal starting fluid. Follow the directions on the can and never apply any other kind of additional fluid once the fire has been ignited.

The use of an electronic starter / paper is another method, and pretreated charcoal may also be used.

Place all ashes generated by the charcoal grill into a metal can.

Propane:

Before each use, check hoses for signs of wear and tear, and that the connection to the tank is tight.

Remove excess grease buildup from the unit, to prevent flare ups.

Periodically check the inside gas tubes for the buildup of spider webs that can cause blockage, causing gas to backflow into the control valves, where it could potentially ignite.

An orange flame is in an indication that there is an obstruction in the gas tubes that lead to the burners. Flame should be blue in color.

When igniting the grille, make sure the lid or cover is in the open position.

Never leave the unit unattended while cooking, and keep children at a safe distance. Always shut the tank off after each use. If the unit catches fire, do not attempt to extinguish it, especially if propane is burning freely. CALL THE FIRE DEPT. Propane will reignite with explosive force. Proper location and placement of the unit is very important. Keep the unit away from the sides or back of your home, as well as open windows. If fire occurs, it will spread to the building. Use common sense and read the manufacturer's directions.

Brush / Grass / Tree Fire Safety

On average, 976 brush, grass, or forest fires were reported per day in the United States. Keep weeds and grass cut.

Provide enough water to keep plants healthy and green. Remove dead and piled up vegetation, and dispose of it properly.

Properly dispose of trash and debris.

Create at least 30 foot safe zone around your home that is free of anything that may ignite and spread to the structure.

Keep the roof clear. Sweep gutters and eaves, and wash the roof on a regular basis to get rid of dry needles and leaves.

Trim dead wood off trees that are located close to the residence.

Maintain a 10-foot area that is free of brush and shrubbery around grills and propane tanks. ALWAYS dispose of cigarettes carefully. Do not ever drop cigarettes or matches that are not fully extinguished.

Vacation and Fire Safety

Going on vacation or leaving campus for spring break, no matter where you go, it is always important to ensure that you are staying in a safe environment and that you recognize the chance for injury or a fire accident. Here are some safety tips to take along with you on vacation if you are staying at a hotel: -PLAN AHEAD!!



o When making your reservations, ask if the hotel or motel has smoke detectors and fire sprinklers.

o When traveling, take a flashlight with you. o Read the fire evacuation plan carefully. If one is not posted in your room, request one from the front desk.

o Locate the two exits from your room.

o Count the number of doors between your room and the exits. This will assist you in the need of an emergency evacuation.

o Locate the fire alarms on your floor.

o Locate fire extinguishers on your floor.

o Never smoke in bed.

Here are LIFE SAVING steps you can take if you find yourself in a hotel that is on fire: o If the fire is in your room, get out quickly.

Close the door, sound the alarm and notify the front desk.

o Always use a stairwell, never an elevator. The elevator could stop at the floor of the fire. o If the fire is not in your room, leave if it is safe to do so. Be sure to take your room key with you in case fire blocks your escape and you need to re-enter your room.

o To check the hallway for fire, touch the door with the back of your hand to test the temperature. If the door is cool, get low to the floor, brace your shoulder against the door and open it slowly. Be ready to close it quickly if there are flames on the other side. Crawl low in the smoke to the nearest exit; the freshest air is near the floor.

o If your room door is hot, do not open it. Instead, seal the door with wet towels or sheets. Turn off the fans and air conditioners. Call the fire department to give your location. Signal from your window.

Other Spring Fire Safety Tips

Start to prepare for storm related outages. Make sure your flashlights and portable radios have batteries and that other supplies, such as bottled water, are stocked and available.

As part of spring cleaning make sure to take a few minutes to clean up and brush off your safety plans as well:

Remove all hazards. Check and correct things such as frayed or damaged appliance cords, wiring, fuses or breakers. Address piles of rubbish, trash and yard debris. Remove stacks of paper and magazines; take them to recycling centers.

Check for water leaks, especially near electrical appliances.

Check for adequate clearance between heating appliances and combustibles.

Properly store flammable liquids and home chemicals. Make sure that gasoline and cleaning fluids are well marked and are out of the reach of children and pets. Store in a cool, dry place outside the house.

Clean up work areas. Put dangerous tools, adhesives, matches or other work items away and out of any child's reach. Make sure that all chemicals are kept under lock and key and out of reach of children and pets.

Check fire protection and safety equipment. Test your smoke alarms.Make sure all doors and windows open easily and are accessible for fast escapes.

Make sure your street numbers are posted properly and are visible.

Plan your escape. Sit down with your family and make sure that everyone knows what to do in the event of a fire by designing a home escape plan. Make sure you have two ways out of every room and that you have a meeting place outside the home for the whole family.

Practice the escape plan. Even the best plan is no good if it's not practiced.

Fire Protection Equipment



Smoke Detectors

An estimated 375,000 fires are reported each year in the place we

feel safest, our homes. One of the best ways to protect yourself and those you live with from a residential fire is by having working smoke detectors. By providing early warning of fire, smoke detectors can double your chances of escaping a fire safely. Fire data shows that over the past three years, on average nearly 75% of the people who died each year in residential fires did not have a working smoke detector in their home.

Replace the batteries in your smoke detectors twice a year. When you change your clocks for Daylight Savings, change your batteries.

Install smoke detectors on each level of your home and sleeping areas. Sleep with your bedroom door closed.

Develop an escape plan with your family - at least twice a year. Include a nighttime drill. Make sure overnight guests also know your fire escape plan.

Install a carbon monoxide detector if you have any appliance or device that has a flame - stove, water heater, furnace, fireplace, space heater, etc.

DO NOT TAMPER WITH WITH/COVER SMOKE ALARMS. This is a very serious issue that could lead to a terrible outcome in the event of an emergency in addition to criminal charges.

Also, DO NOT reset activated fire alarms. Evacuate the residence/structure and wait for it to be cleared by the fire department or other qualified personnel. Resetting the fire alarm can be detrimental to fire department efforts as it will delay investigation into location and reasoning for the activation.

Test smoke detectors at least once a month to ensure that they are working properly. Vacuum the dust from inside the detector at least once a year. Batteries in battery-operated detectors should be changed twice a year or whenever a detector "chirps" to signal low battery power. Never "borrow" a smoke detector's battery for another item's use. A disabled detector cannot save your life. Smoke detectors should be replaced every 10 years, or according to the manufacturer's specifications.

Develop an escape plan with two ways out from each room in the residence. Practice your fire escape plan with the family or roommates to ensure that everyone knows what to do if there is a fire and the smoke detectors sound.



Fire Extinguishers

PASS A fire extinguisher is an active fire protection device used to extinguish or control small fires, often in emergency situations. It is not

intended for use on an out-of-control fire, such as one which has reached the ceiling or endangers the user (i.e., no escape route, excessive smoke, explosion hazard, etc.), or requires the expertise of the fire department. Use a portable fire extinguisher only if you've been trained and in the following conditions: The fire is confined to a small area and is not growing.

The room is not filled with smoke. Everyone has exited the building.

The fire department has been called.

Remember the word PASS when using a fire extinguisher:

Pull the pin and hold the extinguisher with the nozzle pointing away from you.

Aim low. Point the extinguisher at the base of the fire.

Squeeze the lever slowly and evenly.

Sweep the nozzle from side to side.

Spring cleaning home fire safety tips

Fact: Working smoke alarms cut the risk of dying in reported home fires in half. Ensure smoke alarms are installed inside every bedroom, outside each sleeping area and on every level of the home, including the basement. Test them at least once a month by pushing the test button.

Replace batteries in all smoke alarms at least once a year. If an alarm "chirps," warning the battery is low, replace the battery right away.



Fact: The leading cause of home clothes dryer fires is failure to clean them.

Clean the lint filter before or after each load of laundry. Remove lint that has collected around the drum.

Keep the area around your dryer clear of things that can burn, like boxes, cleaning supplies and clothing.

Fact: Most cooking fires in the home involve the stovetop. Keep anything that can catch fire — oven mitts, wooden



utensils, food packaging, towels or curtains away from your stovetop.

Always stay in the kitchen when frying on the stovetop.



In the Garage or Shed: Clean up and properly store paints, pool and yard chemicals Check fuels containers for

leaks and make sure they are properly stored Have all power equipment cleaned, serviced and readied for use



BUREAU OF HEALTH



City of York - Bureau of Health staff happily accept a check for \$95,050 from the Highmark Foundation for work towards improving their electronic data management needs.

New Name and Director Announced for Task Force



York County's Heroin Task Force is now the York Regional Opiate Collaborative. The new name and director were announced on December 28th at the York County

Administrative Center in the

commissioners meeting room before a group of state and local officials. Dr. Matthew Howie, currently the medical director of the York City Bureau of Health, was named the executive director of the group.

Since his appointment he has learned more about the task force and started to gather local data, which is important to measure to move forward. Dr. Howie wants to start tracking how many people try to access treatment, actually get treatment and are successful in combating their addiction.

The task force's new focus, he said, might also include further integrating of primary and behavioral health care delivered outside of traditional medical practices and facilitating the link between already existing support organizations and treatment centers.

The Community Emergency Response Team

(CERT) Program educates people about disaster preparedness for hazards that may impact their area and trains them in basic disaster response skills, such as fire safety, light search and rescue, team organization, and disaster medical operations. Using the training learned in the classroom and hands-on exercises, CERT members can assist others in their family, neighborhood or workplace following an event when professional responders are not immediately available to help. CERT members also are encouraged to support emergency response agencies by taking a more active role in emergency preparedness projects in their community. The Health Bureau staff attended the training one afternoon a month. Class sessions totaled 20 hours of class instruction and hands-on skill development. The photos are from the class "final", a disaster exercise simulation, held at the York County Fire School.





DEPARTMENT OF PUBLIC WORKS

PARK RENAMED

Lincoln Park has been renamed in honor of Jim Gross, who will be retiring this year. Mayor Kim Bracey announced that Lincoln Park would be renamed James E. (Jim) Gross Park during *A Taste of York City* last month. York City Council voted unanimously to approve the resolution for renaming the park on March 7th, citing the honor was well-deserved.



Jim with his wife Pat and daughter, Alex, when the new park sign was unveiled at TOYC $% \mathcal{A}_{\mathrm{A}}$

Jim has worked under eight mayors in the City of Lancaster and the City of York during his 37year career. He landed his first job after college in York. He subsequently took a job in Lancaster and then returned to York in 1999.

Jim has a HUGE job which includes maintaining the parks and playground equipment, taking care of 150 miles of roads in the city, and maintaining street lights and traffic signals. Jim said "It has been a great career" and that he has been working with outstanding people. The park that is being renamed in his honor is where the first Bring on Play playground was built in York.

Other park projects that Jim has undertaken include the recent renovation to the Heritage Rail Trail County Park, the Gold Star Healing & Peace Garden at Veterans Memorial Park and the Reid Menzer Memorial Skate Park.

BANNED ELECTRONICS

TVs, Computers, and items that connect to



computers (printers, modems, keyboards, etc.) may <u>not</u> be discarded as normal trash <u>or</u> recycled. Banned items can be disposed of

through the York County Solid Waste Authority's Residential Electronics Recycling Program, it is free and open to York County/City residents ONLY and is conducted Tuesdays, Wednesdays and Thursdays from 1:30 p.m. to 4:30 p.m. The program is conducted in the parking area located directly across from the York County Resource Recovery Center which is located at 2651 Blackbridge Road. Electronics updates can be found at <u>www.ycswa.com</u>.

YARD WASTE FACILITY

Memorial Stadium; This site is open April – December the first Saturday of each month, 10 am-2 pm, weather permitting. (Bring proof of residency) <u>NO GRASS!</u> Open: 4/1; 5/6; 6/3; 7/1; 8/5; 9/2; 10/7;

11/4; 12/2

CURBSIDE YARD WASTE COLLECTIONS

resumed the week of March 6th on the normal recycling day for each area.



CITY OFFICES CLOSED FOR THESE HOLIDAYS Friday, April 14th Good Friday (trash hauler operating/collecting) Monday, May 29th Memorial Day

HOLIDAY CURBSIDE COLLECTIONS

<u>Memorial Day</u> - No collections on Monday, 5/29 All collections (Mon - Fri) this week will be delayed 1 day.

LARGE- ITEM COLLECTION York City Curbside Customers may call **843-1240** Mon-Thurs, 9:00 a.m. to 3:30 p.m. to schedule up to 5 normal household <u>furniture/appliance items.</u>

REFUSE COLLECTIONS Trash should be placed in plastic or metal cans with a lid and handles and/or in securely tied trash bags (Max: 32 gals; 40lbs). (Contractor bags, leaf bags, grocery bags, large "toters" and trash cans over 32 gals, plastic/metal drums, cardboard boxes, milk crates, and laundry baskets should NOT be used for regular trash.) Illegal containers may be disposed of and no refunds/replacements will be given.

CONTAINERS, BAGS OR BUNDLES PLACED CURBSIDE: All normal curbside items placed for collection (trash, recycling, and yard waste) should not exceed: <u>32 gallons</u> (contents should never extend beyond the top edge of any container), **40 pounds and 3' long**

CONTAINERS & BAGS FOR SALE to individual

residents for their specific York City dwelling. Quantities will not be sold to landlords or management companies. Green Recycling Bin \$3.00/each Yard Waste Cans \$3.00/each Yard Waste Kraft Paper Bags \$5.00/10 pack

Above items are available at the Public Works office, <u>101 S George Street</u>, 2nd floor, M-F, 8 am - 5 pm. Customers must show proof of residency (i.e. driver's license or bill). <u>Recycling containers</u> <u>must remain with the property</u>.

Be sure to check out all the great community activities that are coordinated through the Public Works Department/Recreation and Parks; the Easter Egg Hunt, the Fishing Derby, the Summer Movies Series, the Concert Series, Summer Playground Program and the Free Art in the Park program.

Information on all these great events can be found in this newsletter.



STORM WATER - What Goes In Must Come Out

Storm water pollution occurs when rain or snow melt flows over roofs, parking lots, sidewalks, and

streets, picking up trash, oil, dirt and other pollutants as it travels. These pollutants are then carried IN to the storm drainage system which empties directly OUT into local creeks and streams, untreated. (Common pollutants: motor oil, dirt, pebbles, yard waste/leaves, paint, animal waste, detergents)

If you locate an illicit discharge:

- Document the date, time and location of discovery
- Call or email MS4 Coordinator Lettice Brown with information and photos. 717-324-6532 or <u>lbrown@yorkcity.org</u>
- Call 911 if it is an emergency and an immediate hazard to public safety

SUMMER SPORTS LEAGUES



Basketball, begins May 30th at Voni B. Grimes Gym

Beach Volleyball, begins May 30th at the Memorial Park Complex.



For more information contact the Recreation and Parks office at 854-1587

Chesapeake Bay Plan

• YCPC 2017 Invoice Stormwater Consortium.pdf

York County Stormwater Consortium C/O York County Planning Commission 28 E. Market Street 3rd Floor

York, PA 17401

INVOICE

Sold To York City			Invoice No.	sw	SWC132	
York PA 17405			Date	12/2	3/2016	
			Our Ref.			
			Cust Ref.			
		-	Terms	Due	by 2/28/17	
Product ID	Description	Qty	Unit Pr	ice	Amount	
	Implementation of York County Regional Chesapeake Bay Pollutant Reduction Plan	1	\$14,662	2.00	\$14,662.00	
	2017 Participant share The York County Stormwater Consortium Intergovernmental Cooperative Agreement		\$C	0.00		
Remarks			Te	otal	\$14,662.00	
			Amount F	aid		
			Amount E)ue	\$14,662.00	

TERMS & CONDITIONS

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1. Interest may be levied on overdue accounts.

PLEASE MAKE CHECK PAYABLE TO:

YORK COUNTY STORMWATER CONSORTIUM