



**MUNICIPAL SEPARATE STORM SEWER  
SYSTEM (MS – 4)  
ANNUAL REPORT  
FOR  
Lower Allen Township, Cumberland Co.**

**Submitted June 28, 2017**

**PERMIT YEAR 04/16 - 03/17**

**PREPARED BY :**

**LOWER ALLEN TOWNSHIP  
CUMBERLAND COUNTY , PA**







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3800-FM-BPNPSM0491

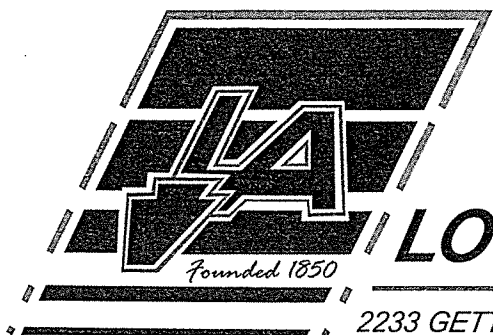
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# LOWER ALLEN TOWNSHIP

2233 GETTYSBURG ROAD • CAMP HILL, PENNSYLVANIA 17011

June 28, 2017

Pennsylvania Department of Environmental Protection  
Watershed Program Manager  
Southcentral Regional Office  
909 Elmerton Avenue  
Harrisburg, PA 17110

RE: MS4 Annual Report Form  
NPDES Permit Number PAI 133511

Good Morning:

Enclosed please find the MS4 Annual Report Form from Lower Allen Township, Cumberland County for the above referenced Permit. This report is for the report period April 1, 2016 to March 31, 2017.

Please contact our office with any questions.

Sincerely,

Daniel J. Flint, P.E. NSPE  
Community Development Director/Township Engineer

cc: Thomas G. Vernau, Jr., Township Manager  
Erin Trone, Assistant Manager







Department of Environmental Protection  
Annual Report Form for MS-4 Program

Form 3800-FM-BPNPSM0491







MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4)

## ANNUAL/PROGRESS REPORT

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

☒ Annual Report ☐ Progress Report  
☐ New Permittee ☒ Renewal Permittee

Due Date: June 29, 2017

### GENERAL INFORMATION

Permittee Name:	Lower Allen Township	NPDES Permit No.:	PA133511
Mailing Address:	2233 Gettysburg Road	Effective Date:	April 1, 2013
City, State, Zip:	Camp Hill, PA, 17011	Expiration Date:	March 31, 2018
MS4 Contact Person:	Daniel J. Flint, P.E.	Renewal Due Date:	October 3, 2017
Title:	Township Engineer	Admin. Extended?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Phone:	717-975-7575	Municipality:	Lower Allen Township
Email:	dflint@latwp.org	County:	Cumberland

Co-Permittees (if applicable):

### 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?
Cedar Run	CWF	Yes	Pathogens	No	No
Yellow Breeches	CWF	Yes	Pathogens	No	No

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

N/A



### GENERAL MINIMUM CONTROL MEASURE (MCM) INFORMATION

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

Provide current contact name and phone number information for the required MCMs (if same as page 1, leave blank):

MCM	Contact Name	Phone
#1 Public Education and Outreach on Storm Water Impacts	Daniel J. Flint, P.E.	717-975-7575 Ext. 1101
#2 Public Involvement/Participation	Same as above	Same as above
#3 Illicit Discharge Detection and Elimination (IDD&E)	Same as above	Same as above
#4 Construction Site Storm Water Runoff Control	Same as above	Same as above
#5 Post-Construction Storm Water Management in New Development and Redevelopment	Same as above	Same as above
#6 Pollution Prevention / Good Housekeeping	Same as above	Same as above

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

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

- 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: **August 11, 2016**
- Date of last evaluation of or revision to the PEOP: **February 8, 2017 (See Attachment # 1)**
- What were the plans and goals for public education and outreach for the reporting period?

**One of the primary goals was to develop a target audience list to serve for MCM's 1 & 2. This goal was achieved throughout the year. (See Attachment # 2).**

- Did the MS4 achieve its goal(s) for the PEOP during the reporting period? ☒ Yes ☐ No

Explain the rationale for your answer:

**The target audience list was developed and was enclosed within the revised PEOP and PIPP plans. The Township published four (4) articles throughout the year (See Attachment # 2). The annual public meeting was conducted on February 27, 2017 (See Attachment # 3). The Township was also successful in putting the MS-4 program onto its' web site (See Attachment # 4) and has linked it to their Facebook page (See Attachment # 5). Lower Allen Township has also participated in the CAP COG newspaper advertisement (See Attachment # 6).**



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

1. **Annually review, evaluate and revise the Public Education and Outreach Program.**
2. **Review & update target audience groups. Add schools, businesses and community organizations to the list.**

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

1. 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: **August 11, 2016**
3. Date of last review or revision to target audience list(s): **February 8, 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.
2. 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: **(See Attachment # 7)**
3. Do you have a municipal newsletter? ☒ Yes ☐ No  
If Yes, how often was it published during the reporting period and what MS4-related material did it contain?  
**The newsletter publishes four times a year. Spring 2016 contained information on Stormwater Pollution. Summer 2016 mentioned stream clean-ups; Fall 2016 contained information about rainwater harvesting; Winter 2017 discussed native plants and creek friendly landscaping. (See Attachment # 7).**
4. Do you have a municipal website? ☒ Yes ☐ No (URL: **www.latwp.org**)  
If Yes, what MS4-related material does it contain?  
**The website (www.latwp.org) is open to the public and it has a pull down section devoted to stormwater and MS-4 content.**
5. Describe any other method(s) used during the reporting period to provide information on stormwater to the public:  
**The Township has participated in an ad related to Stormwater in the Patriot News and Carlisle Sentinel via CAP COG (See Attachment # 6).**
6. Date of most recent review and/or update to published stormwater educational materials: **February 8, 2017**
7. Identify specific plans for the publication of stormwater materials for the upcoming year:  
**Publication of a stormwater article in each of the four (4) editions of the newsletter.**



**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).

**Pamphlets in the lobby area and the CAPCOG ad (See Attachment # 6). In addition the Township is working on a direct question/ feedback mechanism via the web site and/or social media.**



## 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? ☒ Yes ☐ No  
If Yes, provide the latest submission date: **August 11, 2016**
  3. Date of last review and/or update to the PIPP: **February 8, 2017**
  4. Explain how your PIPP addresses items a, b and c of the Measurable Goal:
    - 4 a. - The public is invited to speak at all Board of Commissioners meetings on any topic/concern pertaining to Stormwater Management and Best Management Practices. Additionally, the Township Facebook page is available for comments.
    - 4b. - The Township works with the Yellow Breeches Watershed Association (YBWA). YBWA has quarterly meetings open to the public and they conduct streamside clean-ups throughout the year (See Attachment # 8)
    - 4c. - MS-4 Annual reports are available to the public on the Township's website.
    - 4d - There is a link on the Township's Facebook page that goes directly to the MS4 Coordinator

### 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? ☐ Yes ☒ No
2. If Yes, describe how you advertised the draft ordinance and how you provided opportunities for public review, input and feedback:
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



**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): **February 27, 2017**
2. How were meeting(s) advertised to the public? **Public Notice published in a local paper (See Attachment # 3)**
3. Indicate where the meeting(s) were held and the number of attendees:  
**Meeting was held in the Township meeting room. The attendance list is provided (See attachment # 3).**
4. What types of MS4-related activities did you solicit public involvement and participation for?  
**The speaker solicited public input on the direction of the program and future activities.**
5. What MS4-related activities did the public participate in?  
**Streamside clean-up during "Trout Day " event and Gardners Gathering. (See Attachment # 8 for a list of MS4 activities.)**

### **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? ☒ Yes ☐ No  
If Yes, provide the latest submission date: **August 11, 2016**
3. Date of last review and/or update to IDD&E program: **February 8, 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.

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



2. For new permittees only, attach the completed map to the 4<sup>th</sup> year Annual Report.

3. Date of last update or revision to map(s): **February 22, 2017**

4. Total number of discharge points in your storm sewer system that:

Discharge directly to surface waters (outfalls): **91**

Discharge to storm sewers owned by others: **0**

5. Total number of outfalls that are mapped at this time: **91**

**BMP #3: 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 Goals:** 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.

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<sup>th</sup> year Annual Report.

4. If you are not a new permittee, did you complete and submit your map to DEP? ☐ Yes ☒ No

If Yes, provide the latest submission date:

5. Date of last update or revision to map: **February 22, 2017**

**BMP #4: Following the IDD&E program created pursuant to BMP #1, the permittee shall conduct outfall field screening, identify the source of any illicit discharges, and remove or correct any illicit discharges using procedures developed under 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.*

*The results of outfall inspections and actions taken to remove or correct illicit discharges shall be summarized in periodic reports.*

1. 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

2. For renewal permittees, indicate the percent of outfalls screened during the reporting period: **(See attachment # 9) 22 %**

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: \_\_\_\_\_ %
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?  
☒ Yes ☐ No
- If No, attach a copy of your monitoring form.

**BMP #5: 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).

**Measurable Goal:** 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).

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: **Adopted 03/08/04, amended 02/14/11.**
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 Attachment # 12 for Summary and documentation)

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

**Measurable Goals:** 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.



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

If Yes, what was distributed? **A mechanism for incident reporting has been provided on the Township web site. (See bottom of Attachment # 4)**

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 ☐ No **(If No, complete all remaining questions 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: **Adopted 03/08/2004 - Amended 02/14/2011**  
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:

N/A

**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.

2. 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:

3. 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).

(See description in Attachment # 10)

4. Date that inspection program was last reviewed or updated: 03/22/2016

5. Total number of sites with PCSM BMPs installed as of the date of this report: 113 (See attachment # 10)

6. Total number of sites inspected during this reporting period: 40 (See attachment # 11)

7. Number of sites found to have PCSM BMP deficiencies: 0

8. Number of enforcement actions taken during this reporting period: 3 (See attachment # 12)



## 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 permittee that have the potential to generate stormwater runoff into the MS4? ☒ Yes ☐ No
2. When was the inventory last reviewed? 4/5/2016
3. When was it last updated? 03/30/2015 (See Attachment # 13 for Inventory and Attachment # 14 for Activities)
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? ☒ Yes ☐ No  
If Yes, provide the latest submission date: August 11, 2016
3. Date of last review or update to O&M program: February 22, 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? ☒ Yes ☐ No  
If Yes, provide the latest submission date: **August 11, 2016**
3. Date of last review or update to training program: : **February 22, 2017**
4. Identify the date(s) of employee training, the names of attendees, the topics covered, and the training presenters:  
**(See Attachment # 15)**



### 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 appropriateness of the BMP's is reviewed periodically by the staff members charged with implementing the MS-4 program requirements. Deficiencies are noted and improvements are based upon these assessments. Certain BMP's are in a constant state of enhancement as the permit period advances. (See annual program review memo Attachment # 1). Attachment 14 contains an Activity Summary for O&M work performed throughout the year as well as recycling totals. based upon the annual assessment of facilities, improvements to the existing oil/water sepperator are proposed for the upcoming year,

MS4 TMDL Plan	Chesapeake Bay Pollutant Reduction Plan (CBPRP)
Is the permittee required to develop an MS4 TMDL Plan? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is the permittee required to develop a CBPRP? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
What is the status of the TMDL Design Details (if applicable)? <input type="checkbox"/> Under Development (Due Date:        ) <input type="checkbox"/> Submitted to DEP (Submission Date:        ) <input type="checkbox"/> Approved by DEP (Approval Date:        )	What is the status of the CBPRP (if applicable)? <input type="checkbox"/> Under Development (Due Date:        ) <input checked="" type="checkbox"/> Submitted to DEP (Submission Date: <b>03-31-2014</b> ) <input type="checkbox"/> Approved by DEP (Approval Date:        )

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

**Lower Allen Township has been implementing required nutrient removal BMP's as a part of their land development/ stormwater approval process. Additionally many of the proposed municipal improvements mentioned in the CBPRP have been implemented as of this time.**

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:

**Lower Allen Township has no record of the DEP approval of their CPPRP. At this juncture, there are no required pollutant reduction targets associated with the CBPRP.**



## BMP INVENTORY

List all new structural BMPs installed and ongoing non-structural BMPs implemented in the urbanized area during the reporting period 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 box if done under an NPDES permit).

BMP Name / Description	DA (sf)	Latitude	Longitude	Receiving Waters	Date Installed or Implemented	NPDES Permit?
4925 Ritter Road Mechanicsburg/ Detention Basin/ Bioretention Facility	79714	40.205019	76.958088	Cedar Run	02/17	<input checked="" type="checkbox"/>
4530 Lena Dr./ Detention/infiltration Basins	142572	40.203503	76.946862	Cedar run	11/16	<input checked="" type="checkbox"/>
Derek D. Price / Infiltration Trench	2526	40.3201135	76.947666	Cedar Run	1/16	<input type="checkbox"/>
Triple Crown Corporation/ Infiltration basins & rain gardens	344124	40.208253	76.935014	Cedar Run	10/16	<input checked="" type="checkbox"/>
John & Shari Zimmerman/ /Infiltration trench	7187	40.189434	76.9262	Yellow Breeches	9/16	<input type="checkbox"/>
Vertical Properties/ Infiltration basins and trench	139392	40.207814	76.942687	Cedar Run	4/16	<input checked="" type="checkbox"/>
Old Gettysburg Assoc., V.L.P. / Detention/ infiltration basin	228254	40.211295	76.960032	Cedar Run	10/16	<input checked="" type="checkbox"/>
950 Woodland Investments, LLC/ UG detention /infiltration & snout	41817	40.213382	76.951217	Cedar Run	5/16	<input type="checkbox"/>
Goodwill Keystone Area/ Infiltration trench	3223	40.215476	76.938321	Cedar Run	11/16	<input type="checkbox"/>
Kyle MacIntire/ UG infiltration trench	1916	40.184857	76.930074	Yellow Breeches	11/16	<input type="checkbox"/>



## 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.

**Lower Allen Township has:**

- Followed the Act 167 Stormwater Management Ordinance requirements.
- Continued to meet the requirements of their MS-4 permit.
- Developed and submitted a Chesapeake Bay Pollution Reduction Plan (CBPRP) to the DEP.
- Followed the CBPRP that was submitted to the DEP.

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

**During the next reporting cycle Lower Allen Township will:**

- Undertake the required activities in their MS-4 permit.
- Undertake the required activities in the CBPRP.
- Update MS-4 plans and supporting documents as needed in the upcoming year.
- Continue to update and improve the GIS mapping of the MS-4 system.
- Prepare and submit a new CBPRP for the next permit period (2018 – 2023)

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

**Lower Allen Township has a memorandum of Understanding (MOU) with the Cumberland County Conservation District (CCCD) to assist with permit obligations.**



### CERTIFICATION

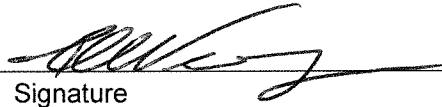
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage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

Thomas G. Vernau, Jr.

Name of Responsible Official

717-975-7575

Telephone No.



Signature

6/19/17

Date



# **ATTACHMENTS TO ANNUAL REPORT**

LOWER ALLEN TOWNSHIP

MUNICIPAL SEWERAGE STORM SEWER SYSTEM (MS-4) PROGRAM







# ATTACHMENT # 1

ANNUAL PROGRAM REVIEW MEMO







# Memo

---

**To**

Daniel Flint, P.E. (DF)

**From**

William P. Gralski, P.E. (WG)

**CC**

R. Allen (RA)

**Re**

Meeting Minutes

MS-4 Annual Review

On February 8, 2017, the staff members listed below gathered to review and discuss the MS-4 program in Lower Allen Township. The program was discussed in the order of the six (6) Minimum Control Measures (MCM's) that make up the program.

**Present:**

Daniel Flint, P.E. (DF)

William P. Gralski (WPG)

Raymond Allen (RA)

**Comments:**

The meeting began promptly at 1:00 PM and the discussions are described below:

**MCM # 1 Public Education and Outreach**

The main point discussed in this section of the meeting was the need for any modifications to target audience list. DF noted that he might want to customize the Target Audience List to reflect certain geographical regions of the Township that contained impaired waters. Dan felt that this change would complement the greater emphasis on water quality improvements in the upcoming permit. WG indicated that he would add this item as a goal for MCM # 1 in the upcoming permit year.

**MCM # 2 Public Involvement and Participation**

Under this MCM the group decided that the target audience list from above could be used for both MCM's. There was discussion about outreach efforts to local conservation groups and scouts to satisfy the requirements of this MCM. WG indicated that he felt that the Township had seen success by attending stream clean-up events with the Yellow Breeches Watershed Association as well as a clean-up organized by the local Field and Stream store. WG to continue dialogue with J. EBY about the Yellow Breeches organization.



### MCM # 3 Illegal Discharge Detection and Elimination

WG mentioned that the IDDE outfall visits were nearly complete for the year. A written protocol for the program was prepared last year in accordance with the MCM requirements. WPG also mentioned that nearby Hampden Township had purchased an outfall screening kit that could be borrowed if necessary.

The group discussed the need for establishing a list of priority outfalls to be visited more frequently. At this time, it was determined that since the MS 4 program started in the Township in 2003, there have been no illicit discharges detected. All parties deferred the need for naming "Priority Outfalls" until such time as they were needed.

RA and DF noted that the MS 4 Outfall map has been revised slightly to reflect the latest DEP guidance on the classification of "Outfalls".

### MCM # 4 Construction Site Stormwater Runoff Control

Since the Township deferred to the state program for this MCM, follow-up actions were not required. WG did ask if there were any E&S violations throughout the year that should be added to the annual report and was told that there were none.

### MCM # 5 Post Construction Stormwater Management in New Development and RE-development.

All parties discussed the Township's current O & M program of sending out inspection forms and letters. WG thought that it was an excellent program. DF and WPG indicated that there is a need for follow-up on the received forms from the mailing in December of last year. WG to go over received forms and enter the inspection forms received on the Township's spreadsheets. WG to send out follow-up letters next month from those who have not responded.

### MCM # 6 Pollution Prevention/ Good Housekeeping

WG and DF discussed training for Public Works staff to share the Municipal Facilities O & M plan and to solicit any comments. Such training would ensure that the staff were knowledgeable in the event of an EPA audit of the facility. Similar training would be conducted for Administrative staff on how to handle IDDE complaints. DF noted that emergency services (i.e. Police and Fire) staff could also benefit from training.

This year's staff training session will be dedicated to proper outdoor storage.

### General Discussion

WPG, RA and DF discussed the upcoming MS4 efforts for the year. The group will have to focus on the 2016-2017 Annual report, the Chesapeake Bay Nutrient Reduction Plan Update and the MS 4 permit renewal package (with PRP plans) which is due in September.

The meeting was adjourned at 2:00 PM.



## ATTACHMENT # 2

LOWER ALLEN TOWNSHIP TARGET AUDIENCE LIST







## Lower Allen Township MS - 4 Target Audience List

### Citizen/ Newsletter E-Mail List

Email Address	First Name	Last Name	Email Address
lemmonds@aol.com			d.howe331@aol.com
s.bishop1947@yahoo.com			mfox550@comcast.net
classicangel302@verizon.net			jrg17055@comcast.net
mckane69@gmail.com			kafuidzaka@gmail.com
keith.komon@hilton.com	Keith	Komon	hoopsgal116@aol.com
weritts@verizon.net			sillygirl374@yahoo.com
gldnrtvr2@comcast.net			esmith@Gellerco.com
deannarayner@yahoo.com			drflaig22@gmail.com
ncsewerat@comcast.net			clb213@verizon.net
smisti319@comcast.net			regehrenfeld@AOL.COM
wendypolito@comcast.net			saristevens@gmail.com
sarasurra@gmail.com			rcaboot@yahoo.com
pld49@verizon.net			papfad@gmail.com
basil.bates@b3consultingservices.com	Basil	Bates	betsywray@comcast.net
jmauch47@hotmail.com			raindate2005@yahoo.com
mrinesmi@aol.com			roelket@yahoo.com
gmbowman@gmail.com			pmbender@comcast.net
judynord@comcast.net			mbquirin8964@gmail.com
meurich@pa.net			ajchad3@gmail.com
raeneubaum@aol.com			gnumnum@verizon.net
bemakt@aol.com	catherine	garrett	wchadwilliamson@gmail.com
jbendrick@hotmail.com			kapohca@gmail.com
jordank@triplecrowncorp.com			chris-cox@juno.com
dkw1508@verizon.net			ccox@aiaeworld.com
gwt427@verizon.net			kmlorance66@gmail.com
rwcddec@hotmail.com			amills@bobbyrahal.com
cbcdix@gmail.com			psujim83@gmail.com
janemassott@verizon.net			merrileeandjim@yahoo.com
mtknox@gmail.com			embixler75@comcast.net
amy.s.gephart@gmail.com			abby@jwmumper.com
c_kohr@verizon.net			dfolk76@verizon.net
kreidersheffer@verizon.net			goofy23@comcast.net
fjh212@comcast.net	Fred	Henry	tczech@ydr.com
llwilli5983@comcast.net			sally.osborne93@yahoo.com
chopakmjc@aol.com			scottalbright05@gmail.com
dbtarnoci@gmail.com			rvhender@verizon.net
63gcm81@pa.net			mawheels2002@yahoo.com
Aknupp816@aol.com			lizburdickrn@verizon.net
dontgetscrappy@gmail.com			mannix6709@yahoo.com
fheishman@aol.com	Fran	Heishman	wallenj7@gmail.com
knkroth@hotmail.com			apv@verizon.net
jtl55@comcast.net			karenjo6358@cs.com
sandrao4036@comcast.net			sparry17@verizon.net



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sbh15@verizon.net			jmdrn2@verizon.net
aimdayco@aol.com	Brian	Sackett	bspitler91@yahoo.com
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mnbezb@hotmail.com	Michael	Irwin	jeaniv@comcast.net
mcpk1947@gmail.com			kiwi40902@hotmail.com
malemo@comcast.net			loudively@yahoo.com
tklove03@yahoo.com	Heather	Fleisher	harleyorlory@comcast.net
ginnovan@aol.com			copejs@hotmail.com
kenkerly@gmail.com			bkinney68@yahoo.com
amilletics@comcast.net			jerdman2001@yahoo.com
kbmarkley@pa.net			suitup451@gmail.com
eddyiggy@yahoo.com	Chad	Miller	randydavis3@verizon.net
musicgod1000@msn.com			tjhc@aol.com
deconrad@comcast.net			jeffandivy@comcast.net
juggerknott@verizon.net			c.clokey@yahoo.com
kraffensperger@gmail.com			kshatzer@abc27.com
jlkiser@comcast.net			rrhintze@hotmail.com
craigmease5@gmail.com			ashleys@odr-pa.org
gspangen@comcast.net			fsourbeer@gmail.com
gramme748@verizon.net			raymixell@gmail.com
psal217050@yahoo.com			dltreich@comcast.net
sldeibert@msn.com			rweaver1700@comcast.net
brunner19@comcast.net			suzanne.stoner@gmail.com
natedogg@enteract.com			bendorion@aol.com
rhch17011@msn.com			pookieluv64@yahoo.com
kmyers11985@yahoo.com			bwsmith41@gmail.com
lauraleer84@gmail.com	Daniel	Underkoffler	thesidecks@verizon.net
dan1216@comcast.net			beckymcgee86@gmail.com
anghesom@gmail.com			grs24@msn.com
achin1955@yahoo.com			thkutz@outlook.com
jasomdssp@yahoo.com			dclovsky@gmail.com
cknipe310@verizon.net			gramkhooper@yahoo.com
cdimartile@gmail.com	Ann	Hoffman	jeanivrn@gmail.com
la0906@comcast.net	Diane	Harmon	dgopear@hooverinc.com
diharmon@yahoo.com			chachiangelo@gmail.com
pj22fan@verizon.net			iberge@verizon.net
dnc9592@verizon.net			Dcarey322@aol.com
kcoolsen@yahoo.com			jmt1254@aol.com
ann515@yahoo.com			roy1861@aol.com
cnjwilliamson1@gmail.com	Joan	Williamson	abbclb8@comcast.net
rbmeilton@gmail.com			mtndew11@comcast.net
Blanwool2@comcast.net			alleyflop@msn.com
onufersr@aol.com			gramc@verizon.net
Ncrockett@verizon.net			plgorton1@comcast.net
dnldgf@gmail.com			jjlewis1868@verizon.net
b1crb1@gmail.com			msdse9905@gmail.com
kelly.woods@bettertomorrow.org	Kelly	Woods	ddaugherty10@verizon.net
tripwave@earthlink.net			briankstolley@gmail.com
studentofdeath@hotmail.com	Amy	Senn	augustine.wojcik@gmail.com



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## Lower Allen Township MS - 4 Target Audience List

### Schools

Name	Street		City	State	Zip
Al-Huda School	1007 Rana Villa Ave		Camp Hill	PA	17011
Allen Middle School	4225 Gettysburg Rd		Camp Hill	PA	17011
Lower Allen Elementary School	4100 Gettysburg Rd		Camp Hill	PA	17011
Rossmoyne Elementary School	1225 Rossmoyne Rd		Mechanicsburg	PA	17055
Trinity High School	3601 Simpson Ferry Rd		Camp Hill	PA	17011
Weavadou School of Dance	920 Linda Ln		Camp Hill	PA	17011
West Shore School District	507 Fishing Creek Rd	P.O. Box 803	New Cumberland	PA	17070-0803
West Shore School District (Dist. Office)	507 Fishing Creek Rd		Lewisburg	PA	17339-9517
Western PA School for the Deaf	3820 Hartzdale Drive		Camp Hill	PA	17011



# Lower Allen Township MS - 4 Target Audience List

## Township Businesses

Name	Street	City	Zip	State
2K Kases	3989 Capital City Mall Drive	Camp Hill	17011-7003	PA
975-9877	41 Argali Ln	Mechanicsburg	17055-4859	PA
AD Marble Co.	3913 Hartzdale Drive	Camp Hill	17011	PA
Adability, Inc.	3607 Rosemont Ave	Camp Hill	17011	PA
ADM Alliance Nutrition	2000 Hummel Ave	Camp Hill	17011	PA
Admin. Offices of PA Courts	5035 Ritter Rd	Mechanicsburg	17055	PA
ADP Training/Sales	930 Century Drive	Mechanicsburg	17055	PA
Aeropostale	3568 Capital City Mall Drive	Camp Hill	17011-7003	PA
Ajilon	5001 Louise Drive	Mechanicsburg	17055	PA
Al-Huda School	1007 Rana Villa Ave	Camp Hill	17011	PA
Allen Middle School	4225 Gettysburg Rd	Camp Hill	17011	PA
Allied Carton	3491 Capital City Mall Drive	Camp Hill	17011-7003	PA
Alpha Graphics	3401 Hartzdale Drive	Camp Hill	17011	PA
Alternative Services Concepts	5010 Ritter Rd	Mechanicsburg	17055	PA
American Eagle Outfitters	3522 Capital City Mall Drive	Camp Hill	17011-7003	PA
American General Life & Accident	2415 Gettysburg Rd	Camp Hill	17011	PA
American Homecare Supply Company	2300 Gettysburg Rd	Camp Hill	17011	PA
American Homepatient	3825 Hartzdale Drive	Camp Hill	17011	PA
American Lung Association of PA	3001 Gettysburg Rd	Camp Hill	17011	PA
Americhoice Federal Credit Union	433 S. 18th St	Camp Hill	17011	PA
Angie's Bark Avenue	4912 Louise Drive	Mechanicsburg	17055	PA
Animal Hospital	1010 Wesley Drive	Mechanicsburg	17055	PA
Apple Fasteners	3617 Simpson Ferry Rd	Camp Hill	17011	PA
Appleton Paper	2850 Appleton St	Camp Hill	17011	PA
Applied Research Associates, Inc.	3605 Hartzdale Drive	Camp Hill	17011	PA
Armstrong Cabinets	4700 Westport Drive	Mechanicsburg	17055	PA
ASF-Keystone	3420 Simpson Ferry Rd	Camp Hill	17011	PA
Asian American Market	3507 Simpson Ferry Rd	Camp Hill	17011	PA
Asplundh Tree Experts	5020 Ritter Rd	Mechanicsburg	17055	PA
AT&T	3588 Capital City Mall Drive	Camp Hill	17011-7003	PA
Auntie Anne's	3475 Capital City Mall Drive	Camp Hill	17011-7003	PA
Auto Body Pros	141 Creek Rd	Camp Hill	17011	PA
Auto Camp Tire & Auto Service	3609 Hartzdale Drive	Camp Hill	17011	PA
Automatic Data Processing	930 Century Drive	Mechanicsburg	17055	PA
AutoZone	5012 Simpson Ferry Rd	Mechanicsburg	17050	PA
Avian & Feline Hospital	3300 Hartzdale Drive	Camp Hill	17011	PA
Bair Machine Company	153 Creek Rd	Camp Hill	17011	PA
Barbara Slabe, DMD	1776 Carlisle Rd	Camp Hill	17011	PA
Barbush & Hoffman, CPA	1104 Fernwood Ave	Camp Hill	17011	PA
Bath & Body Works	3573 Capital City Mall Drive	Camp Hill	17011-7003	PA
Batteries Plus	2501 Gettysburg Rd	Camp Hill	17011	PA
Beaudry's Oral Surgery	3600 Gettysburg Rd	Camp Hill	17011	PA
Beauty Nails	5202 Simpson Ferry Rd	Mechanicsburg	17050	PA
Becker's Service Center	3150 Gettysburg Rd	Camp Hill	17011	PA
Benny's Pet Depot	5202 Simpson Ferry Rd	Mechanicsburg	17050	PA
Best Buy Mobile	3537 Capital City Mall Drive	Camp Hill	17011-7003	PA
Bethany Towers	335 Wesley Drive	Mechanicsburg	17055	PA
Bethany Village Retirement Center	325 Wesley Drive	Mechanicsburg	17055	PA
BJ's Wholesale Club	3805 Hartzdale Drive	Camp Hill	17011	PA
Bleacher Burns	3533 Capital City Mall Drive	Camp Hill	17011-7003	PA
Body Central	3455 Capital City Mall Drive	Camp Hill	17011-7003	PA
Bortek Industries, Inc.	4716 Gettysburg Rd	Mechanicsburg	17055	PA
Brewhouse Grille	2050 State Rd	Camp Hill	17011	PA
Brookside Montessori	3708 Rosemont Ave	Camp Hill	17011	PA
Brothers Pizza	4910 Louise Drive	Mechanicsburg	17055	PA
Bruster's	3521 Hartzdale Drive	Camp Hill	17011	PA



Build-A-Bear Store	3519 Capital City Mall Drive	Camp Hill	17011-7003	PA
Builder's Supply	308 S. 18th St	Camp Hill	17011	PA
Burger King	3555 Gettysburg Rd	Camp Hill	17011	PA
CACI, Inc.	5000 Ritter Rd	Mechanicsburg	17055	PA
Caf	4700 Gettysburg Rd	Mechanicsburg	17055	PA
Camp Hill Auto and Truck-Becker's	3303 Hartzdale Drive	Camp Hill	17011	PA
Camp Hill Family Chiropractic	3401 Hartzdale Drive	Camp Hill	17011	PA
Camp Hill Motel	3803 Glenwood Ave	Camp Hill	17011	PA
Capital Area Pregnancy Centers	2515 Gettysburg Rd	Camp Hill	17011	PA
Capital City Car Wash	3525 Hartzdale Drive	Camp Hill	17011	PA
Capital City Dental Center	3401 Hartzdale Drive	Camp Hill	17011	PA
Capital City Mall	3506 Capital City Mall Drive	Camp Hill	17011-7003	PA
Capital City News	3977 Capital City Mall Drive	Camp Hill	17011-7003	PA
Capital City Plaza	3401 Hartzdale Drive	Camp Hill	17011	PA
Capital Vision Center	3100 Gettysburg Rd	Camp Hill	17011	PA
Capitol Presort Services	25 Utley Drive	Camp Hill	17011	PA
Cartridge World	5250 Simpson Ferry Rd	Mechanicsburg	17050	PA
Cassimatis and Dessey, Esqs.	4999 Louise Drive	Mechanicsburg	17055	PA
Cedar Cliff High School	1301 Carlisle Rd	Camp Hill	17011	PA
Cedar Place Apt. Office	2101 Cedar Run Drive	Camp Hill	17011	PA
Cell Works Cellular	3506 Capital City Mall Drive	Camp Hill	17011-7003	PA
Cellular One	3506 Capital City Mall Drive	Camp Hill	17011-7003	PA
Center for Applied Management Practices	3609 Gettysburg Rd	Camp Hill	17011	PA
Century 21 Walak Associates	3803 Cedar Ave	Camp Hill	17011	PA
Changing Spaces	2240 Gettysburg Rd	Camp Hill	17011	PA
Charles F. Sullivan, CPA	1513 Cedar Cliff Drive	Camp Hill	17011	PA
Charles Rector, Esq.	1104 Fernwood Ave	Camp Hill	17011	PA
Charlotte Russe	3574 Capital City Mall Drive	Camp Hill	17011-7003	PA
Cheran Inc. Electrical Contractors	3552 Gettysburg Rd	Camp Hill	17011	PA
Chic Hair Design	3816 Gettysburg Rd	Camp Hill	17011	PA
Christ Community Church	1201 Slate Hill Rd	Camp Hill	17011	PA
Christ Presbyterian Church	421 Deerfield Rd	Camp Hill	17011	PA
Christian Life Assembly	2645 Lisburn Rd	Camp Hill	17011	PA
Christopher Banks	3507 Capital City Mall Drive	Camp Hill	17011-7003	PA
Ciao Pizzeria	1150 Lowther Rd	Camp Hill	17011	PA
Cingular Wireless	3588 Capital City Mall Drive	Camp Hill	17011-7003	PA
CitiFinancial	3401 Hartzdale Drive	Camp Hill	17011	PA
Citizen's Bank	1510 Cedar Cliff Drive	Camp Hill	17011	PA
City Looks	1104 Carlisle Rd	Camp Hill	17011	PA
Claire's Boutique	3572 Capital City Mall Drive	Camp Hill	17011-7003	PA
Classic Dry Cleaners	5028 Simpson Ferry Rd	Mechanicsburg	17050	PA
Coble's Transfer & Storage	1500 Hummel Ave	Camp Hill	17011	PA
Comfort Inn	1012 Wesley Drive	Mechanicsburg	17055	PA
Communications Services	2929 Gettysburg Rd	Camp Hill	17011	PA
Concentra Medical Center	4910 Ritter Rd	Mechanicsburg	17055	PA
Conforti Rehab Services	920 Century Drive	Mechanicsburg	17055	PA
Cornwell Door Service	3300 Hartzdale Drive	Camp Hill	17011	PA
Costea's Auction	2228 Gettysburg Rd	Camp Hill	17011	PA
Country Inn & Suites	4943 Gettysburg Rd	Mechanicsburg	17055	PA
Country Patchwork	1603 Carlisle Rd	Camp Hill	17011	PA
Country Walk Apartments	1400 Hillcrest Ct	Camp Hill	17011	PA
Courtyard by Marriott	4921 Gettysburg Rd	Mechanicsburg	17055	PA
CPQ2, Inc.	5268 Simpson Ferry Rd	Mechanicsburg	17050	PA
Crazy 8	3523 Capital City Mall Drive	Camp Hill	17011-7003	PA
Creative Looks	3808 Gettysburg Rd	Camp Hill	17011	PA
Creston Apartments	4420 Gettysburg Rd	Camp Hill	17055	PA
Crimson Frog	1104 Carlisle Rd	Camp Hill	17011	PA
Crown Trophy	1106 Carlisle Rd	Camp Hill	17011	PA
Cumberland Perry Housing	829 Lisburn Rd	Camp Hill	17011	PA
CVS Pharmacy	1116 Carlisle Rd	Camp Hill	17011	PA
Dairy Farmers of America, Inc.	4825 Gettysburg Rd	Mechanicsburg	17055	PA
Dairy Queen/Orange Julius	3652 Capital City Mall Drive	Camp Hill	17011-7003	PA
DalTile	4750 Westport Drive	Mechanicsburg	17055	PA
David L. Reisman Lawn Service	4705 Gettysburg Rd	Mechanicsburg	17055	PA
Dead Sea Legend	3506 Capital City Mall Drive	Camp Hill	17011-7003	PA



Deanne Burch Photography	3602 Rosemont Ave	Camp Hill	17011	PA
DHC	5021 Louise Drive	Mechanicsburg	17055	PA
Diakon Lutheran Social Ministries	960 Century Drive	Mechanicsburg	17055	PA
Dist. Coun./Assembly of God Churches	4651 Westport Drive	Mechanicsburg	17055	PA
Dollar General	5034 Hann Rd	Mechanicsburg	17050	PA
Dollar General	1104 Carlisle Rd	Camp Hill	17011	PA
Donald McCione	1104 Fernwood Ave	Camp Hill	17011	PA
Dr. Frederick Minium	1509 Cedar Cliff Drive	Camp Hill	17011	PA
DriveKore	101 Wesley Drive	Mechanicsburg	17055	PA
E.M. Wagman, OD	1140 Carlisle Rd	Camp Hill	17011	PA
Earth Engineering, Inc	5010 Ritter Rd	Mechanicsburg	17055	PA
Eastern Consolidation & Dist.	405 Sterling St	Camp Hill	17011	PA
EB Games	3656 Capital City Mall Drive	Camp Hill	17011-7003	PA
Eberly's Mill Church of God	115 Creek Rd	Camp Hill	17011	PA
Edible Arrangements	3401 Hartzdale Drive	Camp Hill	17011	PA
Edu-Care Services	3401 Hartzdale Drive	Camp Hill	17011	PA
El Sol	3401 Hartzdale Drive	Camp Hill	17011	PA
Elderly Day Activities	3401 Hartzdale Drive	Camp Hill	17011	PA
Emery Transmission	1599 Hummel Ave	Camp Hill	17011	PA
Enterprise Rent-A-Car	3401 Hartzdale Drive	Camp Hill	17011	PA
Envirodyne Systems, Inc.	75 Zimmerman Drive	Camp Hill	17011	PA
Erie Insurance	4901 Louise Drive	Mechanicsburg	17055	PA
Excitement Video	3401 Hartzdale Drive	Camp Hill	17011	PA
Express Dual Gender	3579 Capital City Mall Drive	Camp Hill	17011-7003	PA
Family Eye Care	3623 Gettysburg Rd	Camp Hill	17011	PA
Farr Family Heat Tech	3537 Hartzdale Drive	Camp Hill	17011	PA
Farr Family Tire	3537 Hartzdale Drive	Camp Hill	17011	PA
Farr Family Tires	3537C Hartzdale Drive	Camp Hill	17011	PA
Federal Aviation Administration	3905 Hartzdale Drive	Camp Hill	17011	PA
Federal Mediation & Concilation Service	4999 Louise Drive	Mechanicsburg	17055	PA
Fernwood Office Management	1104 Fernwood Ave	Camp Hill	17011	PA
Finish Line	3518 Capital City Mall Drive	Camp Hill	17011-7003	PA
First Choice Hairstyling	2022 State Rd	Camp Hill	17011	PA
Flamers	3636 Capital City Mall Drive	Camp Hill	17011-7003	PA
Fleet Operation	1304 Slate Hill Rd	Camp Hill	17011	PA
Flinchy's	1833 Hummel Ave	Camp Hill	17011	PA
FMC BioPolymer	4500 Westport Drive	Mechanicsburg	17055	PA
Footlocker	3567 Capital City Mall Drive	Camp Hill	17011-7003	PA
Forever 21	3453 Capital City Mall Drive	Camp Hill	17011-7003	PA
Freedom Wireless	3493 Capital City Mall Drive	Camp Hill	17011-7003	PA
FYE	3581 Capital City Mall Drive	Camp Hill	17011-7003	PA
Gallary Card & Gift	3531 Capital City Mall Drive	Camp Hill	17011-7003	PA
Game Stop	3547 Capital City Mall Drive	Camp Hill	17011-7003	PA
Gap/Gap Kids	3526 Capital City Mall Drive	Camp Hill	17011-7003	PA
Garden Club Federation of PA	1525 Cedar Cliff Drive	Camp Hill	17011	PA
Garfield's	3524 Capital City Mall Drive	Camp Hill	17011-7003	PA
General Hydraulics	2117 Orchard Rd	Camp Hill	17011	PA
GEO Services	1525 Cedar Cliff Drive	Camp Hill	17011	PA
George's Cleaners	1104 Carlisle Rd	Camp Hill	17011	PA
George's Cleaners	4201 Gettysburg Rd	Camp Hill	17011	PA
Gertrude Hawk Chocolates	3563 Capital City Mall Drive	Camp Hill	17011-7003	PA
Gibson-Thomas Eng. Co. Inc.	3552 Gettysburg Rd	Camp Hill	17011	PA
Gift & Associates	1205 Manor Drive	Mechanicsburg	17055	PA
Gish's Furniture	3424 Simpson Ferry Rd	Camp Hill	17011	PA
Glass Gallery	3506 Capital City Mall Drive	Camp Hill	17011-7003	PA
Global Supply Chain	2850 Appleton St	Camp Hill	17011	PA
GNC	3566 Capital City Mall Drive	Camp Hill	17011-7003	PA
GO Games	3506 Capital City Mall Drive	Camp Hill	17011-7003	PA
God's Missionary Church	3807 Rosemont Ave	Camp Hill	17011	PA
Goddard School	5049 Ritter Rd	Mechanicsburg	17055	PA
Gold's Gym	3401 Hartzdale Drive	Camp Hill	17011	PA
Goodall Pools	3501 Simpson Ferry Rd	Camp Hill	17011	PA
Gordon's Jewelers	3551 Capital City Mall Drive	Camp Hill	17011-7003	PA
GoWags Baseball	2015 State Rd	Camp Hill	17011	PA
Grace Evangelical Lutheran Church	1610 Carlisle Rd	Camp Hill	17011	PA
Graystone Bank	3599 Gettysburg Rd	Camp Hill	17011	PA



Greenhorne & O'Mara, Inc.	5000 Ritter Rd	Mechanicsburg	17055	PA
Guisepppe's Brother's Pizza	301 S. 18th St	Camp Hill	17011	PA
Gulf	4840 Gettysburg Rd	Mechanicsburg	17055	PA
Gulf	3635 Simpson Ferry Rd	Camp Hill	17011	PA
Gullifty's	1104 Carlisle Rd	Camp Hill	17011	PA
Gymboree	3565 Capital City Mall Drive	Camp Hill	17011-7003	PA
H & H Sales Associates	4510 Westport Drive	Mechanicsburg	17055	PA
H. Douglas Cluck	1106 Carlisle Rd	Camp Hill	17011	PA
Hallmark Gold Crown/House of Cards	3583 Capital City Mall Drive	Camp Hill	17011-7003	PA
Hampton Inn	4950 Ritter Rd	Mechanicsburg	17055	PA
Happy Nails	3401 Hartzdale Drive	Camp Hill	17011	PA
Happy Tails				
Harris TV & Appliances	3536/3538 Gettysburg Rd	Camp Hill	17011	PA
Harrisburg Korean Presbyterian Church	1127 Slate Hill Rd	Camp Hill	17011	PA
Harrisburg Office Furniture	3300 Hartzdale Drive	Camp Hill	17011	PA
HARSCO Corporation	4718 Gettysburg Rd	Mechanicsburg	17055	PA
Hartman & Associates	2101 Orchard Rd	Camp Hill	17011	PA
Hat World	3553 Capital City Mall Drive	Camp Hill	17011-7003	PA
HealthSouth Rehab	175 Lancaster Blvd	Mechanicsburg	17055	PA
Hempt Brothers	205 Creek Rd	Camp Hill	17011	PA
Henderson & Co Jewelers	5202 Simpson Ferry Rd	Mechanicsburg	17050	PA
Herr Foods, Inc.	25 Utley Drive	Camp Hill	17011	PA
Highland Elementary School	1325 Carlisle Rd	Camp Hill	17011	PA
Highland Gardens	423 S. 18th St	Camp Hill	17011	PA
Holiday Hair	3592 Capital City Mall Drive	Camp Hill	17011-7003	PA
Hollister	3545 Capital City Mall Drive	Camp Hill	17011-7003	PA
Homewood Suites	5001 Ritter Rd	Mechanicsburg	17055	PA
Hot Topic	3555 Capital City Mall Drive	Camp Hill	17011-7003	PA
Humana Marketpoint, Inc.	5000 Ritter Rd	Mechanicsburg	17055	PA
Hunan Express	1010 Wesley Drive	Mechanicsburg	17055	PA
Hydraulic & Chroming	2009 State Rd	Camp Hill	17011	PA
Institute of Real Estate Studies	1521 Cedar Cliff Drive	Camp Hill	17011	PA
Insurance Alliance of Central PA	75 Utley Drive	Camp Hill	17011	PA
Interstate Towing & Recovery	Rt 15 & St. John's Rd	Camp Hill	17011	PA
Isaac's Deli, Inc.	4940 Ritter Rd	Mechanicsburg	17055	PA
ISI Financial	1513 Cedar Cliff Drive	Camp Hill	17011	PA
J & J Service	3537 Hartzdale Drive	Camp Hill	17011	PA
J. Michael Brill & Associates, Inc.	5053 Ritter Rd	Mechanicsburg	17055	PA
Jackson's	1121 Slate Hill Rd	Camp Hill	17011	PA
JC Penney	3501 Capital City Mall Drive	Camp Hill	17011-7003	PA
Jenny's	4500 Gettysburg Rd	Mechanicsburg	17055	PA
Jim Browand Auto Body Shop	1121 Slate Hill Rd	Camp Hill	17011	PA
Jones Daly Coldren Assoc.	25 West Shore Drive	Camp Hill	17011	PA
Journey's	3539 Capital City Mall Drive	Camp Hill	17011-7003	PA
Justice	3516 Capital City Mall Drive	Camp Hill	17011-7003	PA
Justice Eakin of PA Supreme Courts	4720 Gettysburg Rd	Mechanicsburg	17055	PA
K & G Distribution	3801 Rosemont Ave	Camp Hill	17011	PA
Kathie's Christmas	3309 Hartzdale Drive	Camp Hill	17011	PA
Kay Jewelers	3538 Capital City Mall Drive	Camp Hill	17011-7003	PA
KCI Technologies Inc.	5001 Louise Drive	Mechanicsburg	17055	PA
Keiser's Service Center	2401 Gettysburg Rd	Camp Hill	17011	PA
Kemper National Insurance	5001 Louise Drive	Mechanicsburg	17055	PA
Keystone Oil Products	1600 Hummel Ave	Camp Hill	17011	PA
Keystone Rail Equipment	3420 Gettysburg Rd	Camp Hill	17011	PA
Keystone Super Service	4195 Gettysburg Rd	Camp Hill	17011	PA
Kilgore Signs	4501 Gettysburg Rd	Mechanicsburg	17055	PA
Kilmore Eye Associates	890 Century Drive	Mechanicsburg	17055	PA
Kitchen Collection	3587 Capital City Mall Drive	Camp Hill	17011-7003	PA
Kohl Building Products	860 Wesley Drive	Mechanicsburg	17055	PA
Kollas & Kennedy, Attys.	1104 Fernwood Ave	Camp Hill	17011	PA
Kranzel's Hobbies	2202 A Gettysburg Rd	Camp Hill	17011	PA
Kreamer Brother's Glass	1714 Hummel Ave	Camp Hill	17011	PA
L.B. Smith, Inc.	2001 State Rd	Camp Hill	17011	PA
LA Nails	3504 Capital City Mall Drive	Camp Hill	17011-7003	PA
LAM Systems	4700 Westport Drive	Mechanicsburg	17055	PA
Lane Enterprise Inc.	3905 Hartzdale Drive	Camp Hill	17011	PA



Larson Lightning Protection	2405 Gettysburg Rd	Camp Hill	17011	PA
Law Office of Shumaker & Williams	3425 Simpson Ferry Rd	Camp Hill	17011	PA
Leggetts, Inc.	1989 Hummel Ave	Camp Hill	17011	PA
LeTort	3130 Morningside Drive	Camp Hill	17011	PA
Lewis B. Buchanan, Inc.	2511 Gettysburg Rd	Camp Hill	17011	PA
Liberty Forge Golf Course Mini Golf	3804 Lisburn Rd	Mechanicsburg	17055	PA
Liberty Mutual	5000 Ritter Rd	Mechanicsburg	17055	PA
Liberty Mutual Insurance Co.	5021 Louise Drive	Mechanicsburg	17055	PA
Lifecare Hospital of Mechanicsburg	4950 Wilson Ln	Mechanicsburg	17055	PA
Linlo Properties III, LP	1215 Manor Drive	Mechanicsburg	17055	PA
Lisburn Church of God	1621 Main St	Mechanicsburg	17055	PA
Littman Jewelers	3541 Capital City Mall Drive	Camp Hill	17011-7003	PA
LKGC, Inc	3425 Simpson Ferry Rd	Camp Hill	17011	PA
Lower Allen Elementary School	4100 Gettysburg Rd	Camp Hill	17011	PA
Lower Allen Veterinarian Clinic	943 Kranzel Drive	Camp Hill	17011	PA
Lower Allen VFW Post 7530	4545 Westport Drive	Mechanicsburg	17055	PA
Lynda.com	4909 Louise Drive	Mechanicsburg	17055	PA
Macy's	3550 Capital City Mall Drive	Camp Hill	17011-7003	PA
Madeira Chiropractic	2507 Gettysburg Rd	Camp Hill	17011	PA
Madison at Society Hill	2902 Chesterbrook Ct	Camp Hill	17011	PA
Maggie Adams, Ltd.	3605 Gettysburg Rd	Camp Hill	17011	PA
Maid to Perfection	2929 Gettysburg Rd	Camp Hill	17011	PA
Mallard Run Apartments	820 Lisburn Rd	Camp Hill	17011	PA
Management Office	3506 Capital City Mall Drive	Camp Hill	17011-7003	PA
Masala Bistro	3401 Hartzdale Drive	Camp Hill	17011	PA
Massage Therapy Associates	2507 Gettysburg Rd	Camp Hill	17011	PA
Matty's Kitchen, Inc.	4916 Louise Drive	Mechanicsburg	17055	PA
McDonalds	1100 Carlisle Rd	Camp Hill	17011	PA
McDonalds	1014 Wesley Drive	Mechanicsburg	17055	PA
Mechanicsburg Diner	4729 Gettysburg Rd	Mechanicsburg	17055	PA
Medco Health Soulutions, Inc.	5010 Ritter Rd	Mechanicsburg	17055	PA
Meiyu Automation	4940 Ritter Rd	Mechanicsburg	17055	PA
Members First Credit Union	5000 Louise Drive	Mechanicsburg	17055	PA
Meridian West Shore				
Metro Bank	5032 Simpson Ferry Rd	Mechanicsburg	17050	PA
Metro Bank		Camp Hill	17011	PA
Michael L. Bangs, Attorney	302 S. 18th St	Camp Hill	17011	PA
Michael's	3415 Simpson Ferry Rd	Camp Hill	17011	PA
Middle Dist. Inspection Agency	3901 Hartzdale Drive	Camp Hill	17011	PA
Miller & Miller Insurance Agency	2929 Gettysburg Rd	Camp Hill	17011	PA
Mineral Makeup	3506 Capital City Mall Drive	Camp Hill	17011-7003	PA
Moe's Bar & Grill	4709 Gettysburg Rd	Mechanicsburg	17055	PA
Monarch	5069 Ritter Rd	Mechanicsburg	17055	PA
Moneyline Lending	3401 Hartzdale Drive	Camp Hill	17011	PA
Monkey Joe's	3608 Hartzdale Drive	Camp Hill	17011	PA
Motel Sleepers, Inc.	5022 Arthur Drive	Mechanicsburg	17055	PA
Motherhood Maternity	3523 Capital City Mall Drive	Camp Hill	17011-7003	PA
Mount Olivet United Methodist Church	5000 Simpson Ferry Rd	Mechanicsburg	17050	PA
Mullin & Lonergan Assoc.	3909 Hartzdale Drive	Camp Hill	17011	PA
Neato Burrito	5238 Simpson Ferry Rd	Mechanicsburg	17050	PA
Neurological Surgery, Ltd.	920 Century Drive	Mechanicsburg	17055	PA
New China Restaurant	1104 Carlisle Rd	Camp Hill	17011	PA
New England Motor Freight	2800 Appleton St	Camp Hill	17011	PA
New York & Company	3975 Capital City Mall Drive	Camp Hill	17011-7003	PA
New York & Company	3521 Capital City Mall Drive	Camp Hill	17011-7003	PA
Nikoli's Pizza	3904 Gettysburg Rd	Camp Hill	17011	PA
Nissley Winery	3993 Capital City Mall Drive	Camp Hill	17011-7003	PA
Northwest Consumer Discount Co.	3401 Hartzdale Drive	Camp Hill	17011	PA
O.L. Jacobs' & Son	1131 Primrose Ave	Camp Hill	17011	PA
Oak Wood Center	880 Century Drive	Mechanicsburg	17055	PA
Occupant	702 Lisburn Rd	Camp Hill	17011	PA
Office of Chief Counsel	55 Utley Drive	Camp Hill	17011	PA
Office of Helen P O'Planick	2220 Gettysburg Rd	Camp Hill	17011	PA
Office of Law Examiners	5035 Ritter Rd	Mechanicsburg	17055	PA
Office of Victim Services	50 Utley Drive	Camp Hill	17011	PA
Old Navy	3503 Capital City Mall Drive	Camp Hill	17011-7003	PA



OMNI Interactive Systems	2415 Gettysburg Rd	Camp Hill	17011	PA
Orchard Apartments	2204 Cedar Run Drive	Camp Hill	17011	PA
Orth-Rodgers & Associates	4999 Louise Drive	Mechanicsburg	17055	PA
Out Tech	3607 Rosemont Ave	Camp Hill	17011	PA
Oxford Manor Apartments	5349 Oxford Drive	Mechanicsburg	17055	PA
P N C Bank, N A	5288 Simpson Ferry Rd	Mechanicsburg	17050	PA
PA American Water Company	852 Wesley Drive	Mechanicsburg	17055	PA
PA Assoc.of Retired School Educators	878 Century Drive	Mechanicsburg	17055	PA
PA Center Co.	3425 Simpson Ferry Rd	Camp Hill	17011	PA
PA Dept. of Corrections, Annex	75 Utley Drive	Camp Hill	17011	PA
PA Motor Truck Association	910 Linda Ln	Camp Hill	17011	PA
PA Pipe	1250 St. John's Rd	Camp Hill	17011	PA
Pacific Sunwear	3535 Capital City Mall Drive	Camp Hill	17011-7003	PA
Padden, Guerrini & Assoc. CPA	3425 Simpson Ferry Rd	Camp Hill	17011	PA
Panda	3644 Capital City Mall Drive	Camp Hill	17011-7003	PA
Papa John's Pizza	1010 Wesley Drive	Mechanicsburg	17055	PA
Parsons	4999 Louise Drive	Mechanicsburg	17055	PA
Passiton	2202C Gettysburg Rd	Camp Hill	17011	PA
Pavex, Inc.	4400 Gettysburg Rd	Camp Hill	17011	PA
PAWA	4601 Gettysburg Rd	Mechanicsburg	17055	PA
Payless Shoe Source	3585 Capital City Mall Drive	Camp Hill	17011-7003	PA
Paytime, Harrisburg, Inc.	5070B Ritter Rd	Mechanicsburg	17055	PA
Pearl Vision	3593 Capital City Mall Drive	Camp Hill	17011-7003	PA
Peppermill Restaurant	1010 Wesley Drive	Mechanicsburg	17055	PA
Performance Pathways, Inc.	5010 Ritter Rd	Mechanicsburg	17055	PA
Perfume Gallery	3506 Capital City Mall Drive	Camp Hill	17011-7003	PA
Petroleum Auto & Tire Center	1599 Hummel Ave	Camp Hill	17011	PA
PFA Professional Group	704 Lisburn Rd	Camp Hill	17011	PA
PHEAA	4600 Westport Drive	Mechanicsburg	17055	PA
Piercing Pagoda	3495 Capital City Mall Drive	Camp Hill	17011-7003	PA
Pinnacle Health Family Care	910 Century Drive	Mechanicsburg	17055	PA
Pinnacle Health Neurological Surgery	920 Century Drive	Mechanicsburg	17055	PA
Pizza Grille	3817 Gettysburg Rd	Camp Hill	17011	PA
Pizza Hut	3300 Hartzdale Drive	Camp Hill	17011	PA
Pizza Town	5228 Simpson Ferry Rd	Mechanicsburg	17050	PA
PNC Bank, N A	1104 Carlisle Rd	Camp Hill	17011	PA
Precision Medical Devices, Inc	5020 Ritter Rd	Mechanicsburg	17055	PA
Prelude System Training Center	3907 Hartzdale Drive	Camp Hill	17011	PA
Prelude Systems	3911 Hartzdale Drive	Camp Hill	17011	PA
Premeire Eye Care	1524 Cedar Cliff Drive	Camp Hill	17011	PA
Presence	3580 Gettysburg Rd	Camp Hill	17011	PA
Prevail Salon	1 Commercial Drive	Camp Hill	17011	PA
Print-O-Stat, Inc	5040 Louise Drive	Mechanicsburg	17055	PA
Professional Insurance Agents Assoc.	5050 Ritter Rd	Mechanicsburg	17055	PA
Progressive Insurance	3950 Hartzdale Drive	Camp Hill	17011	PA
Prologis	2400 Gettysburg Rd	Camp Hill	17011	PA
Prosthetic Care	940 Century Drive	Mechanicsburg	17055	PA
QFS Factory Outlet	2407 Gettysburg Rd	Camp Hill	17011-7306	PA
QS/1 Data Systems	930 Century Drive	Mechanicsburg	17055	PA
Quality Copiers	75 Utley Dr	Camp Hill	17011	
Quality Copiers				
QualVantage	1525 Cedar Cliff Drive	Camp Hill	17011	PA
Quest Diagnostics	3401 Hartzdale Drive	Camp Hill	17011	PA
Quick Delivery	2240-B Gettysburg Rd	Camp Hill	17011	PA
Radio Shack	3590 Capital City Mall Drive	Camp Hill	17011-7003	PA
Rainbow Nails	1010 Wesley Drive	Mechanicsburg	17011	PA
Ram Motors	2850 Appleton St	Camp Hill	17011	PA
Red Wing Shoes	2224 Gettysburg Rd	Camp Hill	17011	PA
Reed Minerals	5040 Louise Drive	Mechanicsburg	17055	PA
Reflections Hair Design	3885 Rosemont Ave	Camp Hill	17011	PA
Regis Hairstylists	3591 Capital City Mall Drive	Camp Hill	17011-7003	PA
Remington Lamps	2500 Gettysburg Rd	Camp Hill	17011	PA
Representative Sheryl Delozier	2929 Gettysburg Rd	Camp Hill	17011	PA
Ressler's Bagel & Deli	5284 Simpson Ferry Rd	Mechanicsburg	17050	PA
RF Fager. Inc.	2058 State Rd	Camp Hill	17011	PA
Rita's Italian Water Ice	5204 Simpson Ferry Rd	Mechanicsburg	17050	PA



Rite Aid	5280 Simpson Ferry Rd	Mechanicsburg	17050	PA
Rite Aid Print Shop	2310 Gettysburg Rd	Camp Hill	17011	PA
Rite Aid Service Support Center	5280 Simpson Ferry Rd	Mechanicsburg	17055	PA
Riverview Heights Apartments	1104 Fernwood Ave	Camp Hill	17011	PA
Robert Half International, Inc.	4999 Louise Drive	Mechanicsburg	17055	PA
Roland Builders	1706 Liberty Cove	Mechanicsburg	17055	PA
Rolling Green Cemetary	1811 Carlisle Rd	Camp Hill	17011	PA
Ronald Leik, CPA	1517 Cedar Cliff Drive	Camp Hill	17011	PA
Rosewein Reality, Inc.	702 Lisburn Rd	Camp Hill	17011	PA
Rossmoyne Elementary School	1225 Rossmoyne Rd	Mechanicsburg	17055	PA
Royer's & Stephenson's Flowers	3015 Gettysburg Rd	Camp Hill	17011	PA
Salad Works	3645 Capital City Mall Drive	Camp Hill	17011-7003	PA
Sally Rooney, MS	4930 Ritter Rd	Mechanicsburg	17055	PA
SAMTEC, Inc.	4930 Ritter Rd	Mechanicsburg	17055	PA
Sarago Brothers Pizza	1308 Slate Hill Rd	Camp Hill	17011	PA
Sbarro	3620 Capital City Mall Drive	Camp Hill	17011-7003	PA
Sears	3595 Capital City Mall Drive	Camp Hill	17011-7003	PA
SECCO	1111 Primrose Ave	Camp Hill	17011	PA
Select Capital Corporation	4718 Gettysburg Rd	Mechanicsburg	17055	PA
Select Comfort	3559 Capital City Mall Drive	Camp Hill	17011-7003	PA
Select Medical Corporation	4716 Gettysburg Rd	Mechanicsburg	17055	PA
Servant's Heart	3825 Hartzdale Drive	Camp Hill	17011	PA
Shear Magic	2214 Gettysburg Rd	Camp Hill	17011	PA
Sherwin-Williams Company	5258 Simpson Ferry Rd	Mechanicsburg	17050	PA
Shumaker Williams	3425 Simpson Ferry Rd	Camp Hill	17011	PA
Sidoti's Italian Grille	1055 Carlisle Rd	Camp Hill	17011	PA
Sieber Eye Associates	3623 Gettysburg Rd	Camp Hill	17011	PA
Sign-a-Rama	3300 Simpson Ferry Rd	Camp Hill	17011	PA
Signs by Tomorrow	3401 Hartzdale Drive	Camp Hill	17011	PA
Simplex Grinnell	4700 Westport Drive	Mechanicsburg	17055	PA
Slate Hill Mennonite Church	1352 Slate Hill Rd	Camp Hill	17011	PA
Smilecrafters Orthodontics	1106 Carlisle Rd	Camp Hill	17011	PA
Smoker's Express	5236 Simpson Ferry Rd	Mechanicsburg	17050	PA
Smoothie Joe's Juice and Java	5258 Simpson Ferry Rd	Mechanicsburg	17050	PA
Snoke Family Practice	1800 Carlisle Rd	Camp Hill	17011	PA
Sonny Nail	1104 Carlisle Rd	Camp Hill	17011	PA
Sovereign Bank	3556 Gettysburg Rd	Camp Hill	17011	PA
Space Mart	4715 Westport Drive	Mechanicsburg	17055	PA
Sparkle Car Wash	3 S. 40th St	Camp Hill	17011	PA
Specialty Cakes by Bob Miller	5246 Simpson Ferry Rd	Mechanicsburg	17050	PA
Spencers	3570 Capital City Mall Drive	Camp Hill	17011-7003	PA
Sprint	3604 Capital City Mall Drive	Camp Hill	17011-7003	PA
St. John's Chiropractic	304 St. John's Rd	Camp Hill	17011	PA
Stackpole Books	5067 Ritter Rd	Mechanicsburg	17055	PA
Starbuck's	3981 Capital City Mall Drive	Camp Hill	17011-7003	PA
State Auto Insurance Companies	4900 Ritter Rd	Mechanicsburg	17055	PA
State Correctional Institute of Camp Hill	2500 Lisburn Rd	Camp Hill	17011	PA
Sterling Optical	3648 Capital City Mall Drive	Camp Hill	17011-7003	PA
Steven M. Zeigler, CPA, PC	4909 Lousie Drive	Mechanicsburg	17055	PA
Stock Building Supply	2035 State Rd	Camp Hill	17011	PA
Strawberry	3527 Capital City Mall Drive	Camp Hill	17011-7003	PA
Stroehman's Bakery Outlet	2214 Gettysburg Rd	Camp Hill	17011	PA
Subway	3608 Capital City Mall Drive	Camp Hill	17011-7003	PA
Subway	1104 Carlisle Rd	Camp Hill	17011	PA
Subway	1010 Wesley Drive	Mechanicsburg	17055	PA
Subway	4910 Louise Drive	Mechanicsburg	17055	PA
Summit Family Restaurant	2210 Gettysburg Rd	Camp Hill	17011	PA
Sun-up Exxon	2205 Gettysburg Rd	Camp Hill	17011	PA
Sunglass Hut	3600 Capital City Mall Drive	Camp Hill	17011-7003	PA
Sunset Tees	2236 Gettysburg Rd	Camp Hill	17011	PA
Supply Source	2400 Gettysburg Rd	Camp Hill	17011	PA
Supreme Court of PA CLE Board	5035 Ritter Rd	Mechanicsburg	17055	PA
Susquehanna Financial Services, LLC	4999 Louise Drive	Mechanicsburg	17011	PA
Susquehanna Valley Credit Union	3850 Hartzdale Drive	Camp Hill	17011	PA
Sylvan Learning Center	3401 Hartzdale Drive	Camp Hill	17011	PA
T-Mobile	3628 Capital City Mall Drive	Camp Hill	17011-7003	PA



Taco Bell/KFC	3632 Capital City Mall Drive	Camp Hill	17011-7003	PA
Taylor Wharton	4718 Gettysburg Rd	Mechanicsburg	17055	PA
Terminix	5040 Louise Drive	Mechanicsburg	17055	PA
Texaco Food Mart	1500 Cedar Cliff Drive	Camp Hill	17011	PA
Texas Roadhouse	1101 Lower Allen Drive	Camp Hill	17011	PA
Thai Caf	5202-112 Simpson Ferry Rd	Mechanicsburg	17050	PA
The Auto Connection	5200 Simpson Ferry Rd	Mechanicsburg	17050	PA
The Bon-Ton	3525 Gettysburg Rd	Camp Hill	17011	PA
The Children's Place	3578 Capital City Mall Drive	Camp Hill	17011-7003	PA
The Ellis Group LLC.	900 Century Drive	Mechanicsburg	17055	PA
The Limited	3517 Capital City Mall Drive	Camp Hill	17011-7003	PA
The Picture People	3577 Capital City Mall Drive	Camp Hill	17011-7003	PA
The Plum	3801 Gettysburg Rd	Camp Hill	17011	PA
The Restaurant Store	3435 Simpson Ferry Rd	Camp Hill	17011	PA
The Shoe Department	3589 Capital City Mall Drive	Camp Hill	17011-7003	PA
The Woods At Cedar Run	824 Lisburn Rd	Camp Hill	17011	PA
Theo's Bar and Grille	3315 Hartzdale Drive	Camp Hill	17011	PA
Things Remembered	3499 Capital City Mall Drive	Camp Hill	17011-7003	PA
Thomas E. Brown Auto Body Shop	5030 Authur Ave	Mechanicsburg	17055	PA
Thomas Somerville Co.	1401 Slate Hill Rd	Camp Hill	17011	PA
Timothy's - A Hair Salon	3605 Gettysburg Rd	Camp Hill	17011	PA
Today's Home and Leisure	5202 Simpson Ferry Rd	Mechanicsburg	17050	PA
Tokyo Diner	5202 Simpson Ferry Rd	Mechanicsburg	17050	PA
Toppers Hair Design	3702 Hartzdale Drive	Camp Hill	17011	PA
Total Vision Care	3401 Hartzdale Drive	Camp Hill	17011	PA
Tranquility Sensations, Nails and Tanning	3300 Hartzdale Drive	Camp Hill	17011	PA
Trans-America Printing	3544 Gettysburg Rd	Camp Hill	17011	PA
Tressler Lutheran Services	960 Century Drive	Mechanicsburg	17055	PA
Triangle Car Wash	2232 Gettysburg Rd	Camp Hill	17011	PA
Trinity High School	3601 Simpson Ferry Rd	Camp Hill	17011	PA
Trinity Spiritual Center	3601 Simpson Ferry Rd	Camp Hill	17011	PA
Triple Crown Corporation	100 Georgetown Rd	Mechanicsburg	17055	PA
Trix of the Trade	3540 Gettysburg Rd	Camp Hill	17011	PA
TSR	4900 Ritter Rd	Mechanicsburg	17055	PA
TSR	2005 Hummel Ave	Camp Hill	17011	PA
Turkey Hill Minit Market	5150 Simpson Ferry Rd	Mechanicsburg	17050	PA
U-Haul Rental	4725 Gettysburg Rd	Mechanicsburg	17055	PA
U.S. Customs & Border Protection	1215 Manor Drive	Mechanicsburg	17055	PA
Uber's Tire Sales & Auto Service	1101 Carlisle Rd	Camp Hill	17011	PA
Uni-Mart Store #4274	1004 Wesley Drive	Mechanicsburg	17055	PA
Unisource	4501 Westport Drive	Mechanicsburg	17055	PA
United Cerebral Palsy	925 Linda Ln	Camp Hill	17011	PA
United Methodist Home for Children	5120 Simpson Ferry Rd	Mechanicsburg	17050	PA
Universal Media Inc.	4999 Louise Drive	Mechanicsburg	17055	PA
US MEPS	4641 Westport Drive	Mechanicsburg	17055	PA
USA localgovinfo.com	5053 Ritter Rd	Mechanicsburg	17055	PA
Utility Services Group	1302 Slate Hill Rd	Camp Hill	17011	PA
Vanessa's, A Salon of Beauty	3617 Gettysburg Rd	Camp Hill	17011	PA
Verizon	3973 Capital City Mall Drive	Camp Hill	17011-7003	PA
Verizon	2875 Appleton St	Camp Hill	17011	PA
Vi's Nails	4914 Louise Drive	Mechanicsburg	17055	PA
Victoria's Secret	3528 Capital City Mall Drive	Camp Hill	17011-7003	PA
Village At Highland Park	1149 Columbus Ave	Lemoyne	17043	PA
VIP Fitness	5260 Simpson Ferry Rd	Mechanicsburg	17050	PA
Vitamin World	3534 Capital City Mall Drive	Camp Hill	17011-7003	PA
Waddell & Reed	4999 Louise Drive	Mechanicsburg	17055	PA
Walmart				
Ward Trucking	1115 Slate Hill Rd	Camp Hill	17011	PA
Warrell Corporation	1250 Slate Hill Rd	Camp Hill	17011	PA
Weavadou School of Dance	920 Linda Ln	Camp Hill	17011	PA
Weis Market	1195 Lowther Rd	Camp Hill	17011	PA
Weis Market	5140 Simpson Ferry Rd	Mechanicsburg	17050	PA
Wendy's Restaurant	3465 Simpson Ferry Rd	Camp Hill	17011	PA
Wesley Park Apartments	135 Wesley Drive	Mechanicsburg	17055	PA
West Shore Academy of Martial Arts	3348 Gettysburg Rd	Camp Hill	17011	PA
West Shore Rec Board	704 Lisburn Rd	Camp Hill	17011	PA



West Shore School District	507 Fishing Creek Rd	Lewisberry	17319	PA
West Shore Tax Bureau	3607 Rosemont Ave	Camp Hill	17011	PA
Western PA School for the Deaf	3820 Hartzdale Drive	Camp Hill	17011	PA
Wet Seal	3557 Capital City Mall Drive	Camp Hill	17011-7003	PA
White Barn Candle Co.	3575 Capital City Mall Drive	Camp Hill	17011-7003	PA
White Hill Caf	1712 Hummel Ave	Camp Hill	17011	PA
Wiltech Garage	1601 Main St	Mechanicsburg	17055-5944	PA
Woold/Strite Insurance	2929 Gettysburg Rd	Camp Hill	17011	PA
World Cup Ski & Cycle	4500 Gettysburg Rd	Mechanicsburg	17055	PA
Yamaha of Camp Hill	3809 Hartzdale Drive	Camp Hill	17011	PA
Yankee Candle	3562 Capital City Mall Drive	Camp Hill	17011-7003	PA
Yorktown Funding	1104 Fernwood Ave	Camp Hill	17011	PA
Yummy Japan	3612 Capital City Mall Drive	Camp Hill	17011-7003	PA



**ATTACHMENT # 3**  
ANNUAL PUBLIC MEETING INFORMATION









## The Patriot News

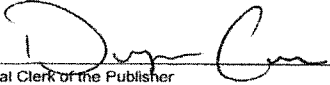
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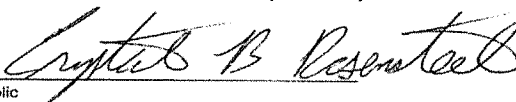
Commonwealth of Pennsylvania,) ss  
County of Cumberland)

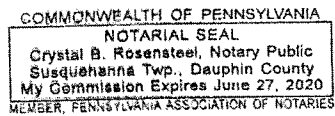
Dwayne Connor being duly sworn, deposes that he/she is principal clerk of PA Media Group; that The Patriot News is a public newspaper published in the city of Mechanicsburg, with general circulation in Cumberland and Dauphin and surrounding counties, and this notice is an accurate and true copy of this notice as printed in said newspaper, was printed and published in the regular edition and issue of said newspaper on the following date(s):

The Patriot News 02/21/2017

  
Principal Clerk of the Publisher

Sworn to and subscribed before me this 22th day of February 2017

  
Notary Public



**Stormwater Program Meeting**  
Lower Allen Township is issued a permit from the PaDEP to operate the Municipal Separate Storm Sewer System (MS4). As part of that permit, a presentation on the Township's Stormwater Program is made annually at an advertised public meeting. That presentation for 2017 will be held in conjunction with the regular Board of Commissioners meeting on Monday, February 27, 2016, beginning at 7:00 PM at the Township Office, 2233 Gettysburg Road, Camp Hill, Pa. The public is invited to attend and participate.



**Lower Allen Township  
Board of Commissioners**

7:00 PM

[illegible]

**All Persons in attendance are requested to sign in.**



## ATTACHMENT # 4

TOWNSHIP WEBSITE'S MS-4 PAGE







f  
(http://www.facebook.com/LowerAllenTownshipPA/)  
Lower Allen Township Facebook Timeline

Lower Allen Township Facebook Timeline

## LOWER ALLEN TOWNSHIP, PA -- A Township of the First Class

(http://www.latwp.org)

### MS 4 - Storm Water

Home (http://www.latwp.org) » MS 4 -- Storm Water

#### UPDATE: Township Hires a MS-4 Coordinator

Lower Allen Township has recently hired a part time staff person to coordinate the Municipal Separate Storm Sewer System (MS-4) program for the municipality. Mr. William P. Gralski, P.E. started working with the Township on March 22, 2016. Mr. Gralski is a seasoned environmental professional with over 30 years of experience in the industry. He will be responsible for assisting the Township with meeting program requirements. This effort will include tasks such as:

- Evaluating program compliance
- Public education
- MS-4 outreach efforts
- Annual reporting
- Overseeing outfall monitoring
- Public meetings and required internal training

Mr. Gralski will be available to answer questions from the public about the program and to facilitate the program. If you have any questions/comments -- see below to send him an email.

#### RESIDENTIAL STORMWATER MANAGEMENT

- Code Of Ordinances  
(http://ecode360.com/LO1571?needHash=true&target=\_blank)
- Zoning Map  
(http://www.latwp.org/wp-content/uploads/2014/07/zoningmap.pdf)
- The "PERMIT" Process  
(http://www.latwp.org/?page\_id=2638)
- Applications and Forms  
(http://www.latwp.org/?page\_id=2627)
- Fee Schedule, Supplemental Forms and Maps  
(http://www.latwp.org/?page\_id=2632)



When we build or introduce new surfaces to an existing landscape, it's important to consider the natural flow of water in that area may be disrupted. Adding impervious surfaces like roofs and residential driveways increase the amount of stormwater runoff, which collects particles of oil, dust, and other pollutants as it travels over the surface of the ground.

This results in an excess of stormwater runoff, which if untreated will travel through drains and gutters until finally depositing into lakes, streams, and the ocean. Negative consequences of this include the following:

- Pollutants are carried into the oceans and out waterways where they can affect wildlife and water quality
- Debris carried in stormwater can clog out storm drains and cause residential flooding
- Increased volumes of stormwater can erode streambanks and hillsides

To avoid these adverse impacts to our property and the environment, federal, state and local laws and regulations require that stormwater be managed by residential and commercial property owners.

For more information go to [www.stormwaterpa.org/cumberland-county.html](http://www.stormwaterpa.org/cumberland-county.html)  
(<http://www.stormwaterpa.org/cumberland-county.html>)

The federal Clean Water Act (CWA) prohibits the discharge of pollutants into waterways without the appropriate permits. Pennsylvania's Stormwater Management Act (better known as Act 167), MS4 Program, Chapter 102 (Erosion and Sediment Control Requirements), and NPDES Permit Program for Stormwater Discharges Associated with Construction Activities are amongst the Commonwealth's methods for meeting the runoff-related requirements of the Clean Water Act.

For all practical purposes, though, implementation of stormwater management efforts in Pennsylvania occurs at the community level because individual municipalities are ultimately responsible for adopting zoning ordinances, subdivision and land development regulations, and other programs that keep their locality's runoff under control.

Contrary to the common perception, properly planning for stormwater can accomplish this goal while speeding the permitting process, saving on construction costs, and resulting in profitable projects that enhance a community in multiple ways.

– Pennsylvania's Storm Water Management Act (Act 167) – [Pennsylvania Department of Environmental Protection Fact Sheet on storm water runoff](http://www.stormwaterpa.org/assets/media/regulatory/3930-FS-DEP4101.pdf)  
(<http://www.stormwaterpa.org/assets/media/regulatory/3930-FS-DEP4101.pdf>)

– StormwaterPA MS4 Website – [StormwaterPA Website](http://www.stormwaterpa.org/ms4-program)  
(<http://www.stormwaterpa.org/ms4-program>) – [Resource Page for Cumberland County](http://stormwaterpa.org/cumberland-county.html) (<http://stormwaterpa.org/cumberland-county.html>)

– United States Environmental Protection Agency – EPA – Water: Permitting (NPDES)

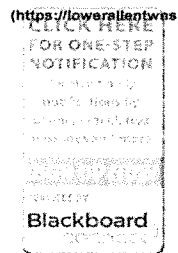
› MS 4 – Storm Water  
([http://www.latwp.org/?page\\_id=2654](http://www.latwp.org/?page_id=2654))

› Planning Commission  
([http://www.latwp.org/?page\\_id=2635](http://www.latwp.org/?page_id=2635))

› Planning Reports  
([http://www.latwp.org/?page\\_id=3982](http://www.latwp.org/?page_id=3982))

› Zoning Hearing Board  
([http://www.latwp.org/?page\\_id=2650](http://www.latwp.org/?page_id=2650))





**MUNICIPAL SERVICES CENTER**  
2233 GETTYSBURG ROAD  
CAMP HILL, PA 17011  
Phone 717-975-7575  
Fax 717-737-4182  
Monday - Friday - 8:00 am - 4:00 pm

**POLICE DEPARTMENT**  
Emergency Dial 911  
Non-emergency 717-238-9676  
Records Office 717-975-7575  
Fax 717-761-4835  
Monday - Friday - 8:00 am - 4:00 pm

**TAX OFFICE**  
Phone 717-737-5571  
Fax 717-737-4182  
Monday, Tuesday, Thursday  
10:00 am - 2:00 pm



## MS 4 – Storm Water | LOWER ALLEN TOWNSHIP, PA – A

– Pollution Prevention & Control – [EPA Website \(http://water.epa.gov/p](http://water.epa.gov/p)

– Penn State College of Agricultural Science – [Resource Page \(http://agsci.psu.edu/aec/research-extension/conservation-tools/stormv](http://agsci.psu.edu/aec/research-extension/conservation-tools/stormv)  
[management\)](http://agsci.psu.edu/aec/research-extension/conservation-tools/stormv)

– Homeowner's Guide to Stormwater – [Start your own plan here \(http://www.stormwaterguide.org/\)](http://www.stormwaterguide.org/)

– Cumberland County Recycling and Waster Disposal – [Main Page \(http://www.ccpa.net/124/Recycling-Waste\)](http://www.ccpa.net/124/Recycling-Waste)


– Lower Allen Township – [2013-2014 Annual Report \(http://www.latwp.c](http://www.latwp.c)  
[content/uploads/2013-2014-Annual-Report.pdf\)](http://www.latwp.c)

– Lower Allen Township – [2013-2014 Annual Municipal Activity Report \(http://www.latwp.org/wp-content/uploads/2013-2014-Annual-Report-At](http://www.latwp.org/wp-content/uploads/2013-2014-Annual-Report-At)

– Lower Allen Township – [2014-2015 Annual Municipal Activity Report \(http://www.latwp.org/wp-content/uploads/2014-2015-Final-Report.pdf\)](http://www.latwp.org/wp-content/uploads/2014-2015-Final-Report.pdf)

– Lower Allen Township – [2015-2016 Annual Municipal Activity Report \(http://www.latwp.org/wp-content/uploads/MS4-Report.pdf\)](http://www.latwp.org/wp-content/uploads/MS4-Report.pdf)

If you would like to send an email for questions or more i  
please use the form below and click send. Thank you.

	Bill Gralski, MS4 Coordinator ex 
Your Name	
Email	
Comments	



## ATTACHMENT # 5

TOWNSHIP'S MS-4 LINK ON FACEBOOK







Be the first to write a comment...

Lower Allen Township, PA shared a link.  
Published by Helen Grundon · 3 hrs ·

**July 4th Trash Collection**  
July 4th Trash Collection Posted on June 25, 2015 By Helen Grundon In Township News Regular Trash and Recycling collection will not be affected this July 4th holiday, due to it falls on a Saturday. ←  
LATWP.ORG

310 people reached  
Like · Comment · Share

Sherry Brady Lemmonds likes this.

Be the first to write a comment...

Lower Allen Township, PA shared a link.  
Published by Helen Grundon · June 23 at 2:08pm ·

**Township Office Closed July 1, 2015 From 11:30 to 12:30**  
Township Office Closed July 1, 2015 From 11:30 to 12:30 Posted on June 23, 2015 By Helen Grundon In Township News The Township offices will be closed for one hour on July 1, 2015 from 11:30 to 12:30....  
LATWP.ORG

275 people reached  
Like · Comment · Share

Lower Allen Township, PA  
Published by Helen Grundon · June 22 at 3:04pm ·

**Information about Residential Stormwater Management**

**MS 4 – Storm Water | LOWER ALLEN TOWNSHIP, PA – A Township of the First Class**  
A Township Of the First Class  
LATWP.ORG

589 people reached  
Like · Comment · Share

Judith Patton, Kim Slaughter, John Young and 2 others like this.

Be the first to write a comment...

Lower Allen Township, PA shared Lower Allen Township Police Department's post.  
Published by Frank Williamson · June 21 at 6:29am ·

Lower Allen Township Police Department  
Flood Warning is in effect for the Yellow Breeches Creek -

English (US) · Privacy · Terms · Cookies · Ad Choices  
More  
Facebook © 2015

Chat (15)

*MS-4 FACEBOOK LINK*

**THIS WEEK**  
2 Page Likes  
848 Post Reach

**Recent**  
2015  
2014  
2013  
2012  
2011  
2010

See Your Ad Here

Lower Allen Township, PA  
FROM PENNDOT: We are scheduled to place PA 581 Westbound latex modified concrete overlay...

1  
Boost Post

**LIKED BY THIS PAGE**

Pennsylvania 811

Pennsylvania American Water

Tri-County Regional Planning Commis...

**POSTS TO PAGE**

Ashley Smith  
June 22 at 10:53am  
Where is the closest public pool for Lower Allen Township residents?  
Like · Comment 1

Jamie Lynne  
June 20 at 10:56pm  
Theres a lot of standing water on Lisburn Rd around the Liberty Forg... See More  
Like · Comment 3

Joseph Andrews  
June 18 at 12:51pm  
Is there anything specific that I should be aware of that is needed ... See More  
Like · Comment 1

**Lower Allen Township, PA**  
Published by Helen Grundon · June 22 at 3:04pm ·

**Information about Residential Stormwater Management**

**MS 4 – Storm Water | LOWER ALLEN TOWNSHIP, PA – A Township of the First Class**  
A Township Of the First Class  
LATWP.ORG

589 people reached  
Like · Comment · Share

Judith Patton, Kim Slaughter, John Young and 2 others like this.

Be the first to write a comment...

Lower Allen Township, PA shared Lower Allen Township Police Department's post.  
Published by Frank Williamson · June 21 at 6:29am ·

Lower Allen Township Police Department  
Flood Warning is in effect for the Yellow Breeches Creek -

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More  
Facebook © 2015

Chat (15)



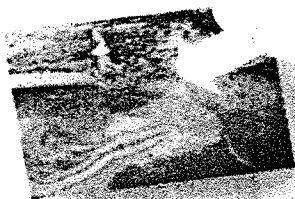




# ATTACHMENT # 6

CAP COG STORMWATER ADVERTISEMENT





**WHAT  
GOES IN...**



**MUST  
COME OUT**

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

***Simple steps to prevent stormwater pollution:***

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

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

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



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230 S. Sporting Hill Road, Mechanicsburg, PA 17050 717.761.6211

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Middletown Borough  
Monaghan Township  
Monroe Township  
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Penbrook Borough  
Shippensburg Township  
Shiremanstown Borough  
Silver Spring Township  
South Hanover Township  
Susquehanna Township  
Swatara Township  
Upper Allen Township  
West Hanover Township  
Wormleysburg Borough











**ATTACHMENT # 7**  
TOWNSHIP NEWSLETTER ARTICLES



# SUMMER 2016

## YELLOW BREECHES CREEK CLEAN UP • STREAM

### Yellow Breeches Watershed Association Cond



On April 9, 2016 while many anglers were filling their creels with fish, the Yellow Breeches Watershed Association were busy clearing debris from Allen and Fairview Townships. Thanks to the efforts of this group, app now a cleaner, more inviting stretch of stream. The clean-up effort was Watershed Association (YBWA). John Eby, the Treasurer for the associati ordinator for Lower Allen Township (center in photo) was the event coo John are from left to right are: Indigo Shafer, Dean Villone, Phillip Brath the Suez Water Company for providing refreshments, coordination and a area at the Rabold Water Filtration Plant site. Lower Allen Township would like to thank all of the participants for doing clean!

### Township Staff to Inspect Local Impa

In anticipation of upcoming regulatory changes, staff from Lower Aller streams that have been designated as "Impaired Waters" by the Pennsylv Protection. These areas include:

- All of the Cedar Run watershed within Lower Allen Township to its Creek.
- The Yellow Breeches Creek in the area of Beacon Hill
- Tributaries to the Yellow Breeches Creek in the area of Raven Hill and

All Township staff will have safety vests and photo identification. We cu be done in July or August. The work may involve in-stream macroinvert sampling.



# SUMMER 2016

## FIELD & STREAM COMMUNITY DAY

### Field & Stream Conducts Stream Clean-up as a part of Community Day

On May 7, 2016, the Field & Stream organization sponsored a stream clean-up behind their store as a part of their "Community Day" activities. The volunteers were able to remove debris from approximately 1,700 feet of stream behind Hartzdale Drive.



#### Volunteers in the Stream

The clean-up effort removed a significant amount of debris from the streambank environment in this area of the Township. The debris removed included at least five tires, a lawnmower deck, and other household items. The material was transported using bags made out of recycled plastic by Dick's Sporting Goods (Field & Stream's parent company); the solid waste disposal was handled by the Township's waste management organization.



#### Debris removed from tributary to the Cedar River

*It is important to remember that improperly disposed material can lie in the environment for decades. A discarded tire has NO KNOWN DISINTEGRATION PERIOD. This means that if soiled, it will be there for hundreds of years unless removed by someone else who cares about the world we all live in.*



# FALL 201

## RAINWATER HARVESTING • LITTLE



### Rainwater Harvesting

A rain barrel/cistern is a water base of a roof downspout with th a specific use. The reuse of rain ing, cleaning outdoor areas, fl plants).

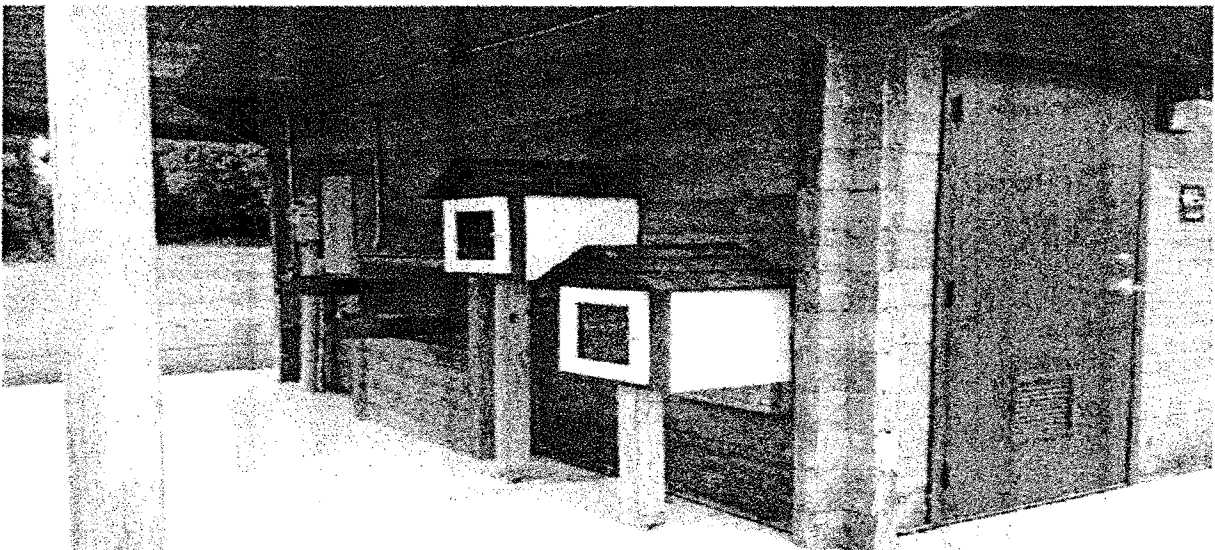
### Rainwater Harvesting D

Section 4.4 in the Chesapeake Guide for a More Bay- Friendly various types of residential storm be viewed here: <http://chesapdownloads/2013/11/6.-Section-4.4->

## Little Free Library

Little Free Library is an organization that promotes literacy and love of reading by building free book exchanges. Lower Allen Township decided that a Little Free Library would fit in well at its new Cedar Spring Run Park, where people could sit by the stream and read a book. The Township applied for and was awarded a \$500 grant from the Greater Harrisburg Association of Realtors to purchase materials to build the Little Free Library.

Then this summer, using the grant money, Boy Scout John Smith designed, built and installed two free little libraries at



Cedar tains l books books To us book f ished entirel

Lower tered cate t inform ies. Re the ex

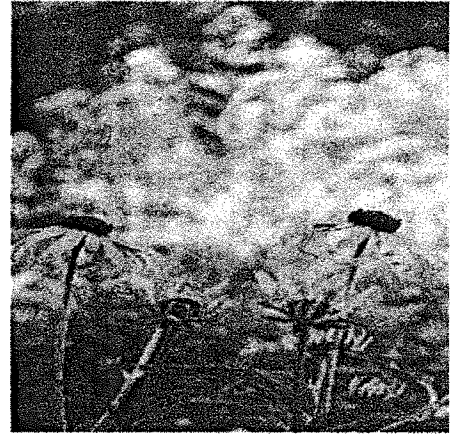


# WINTER 20

## GARDEN GRANT OPPORTUNITY

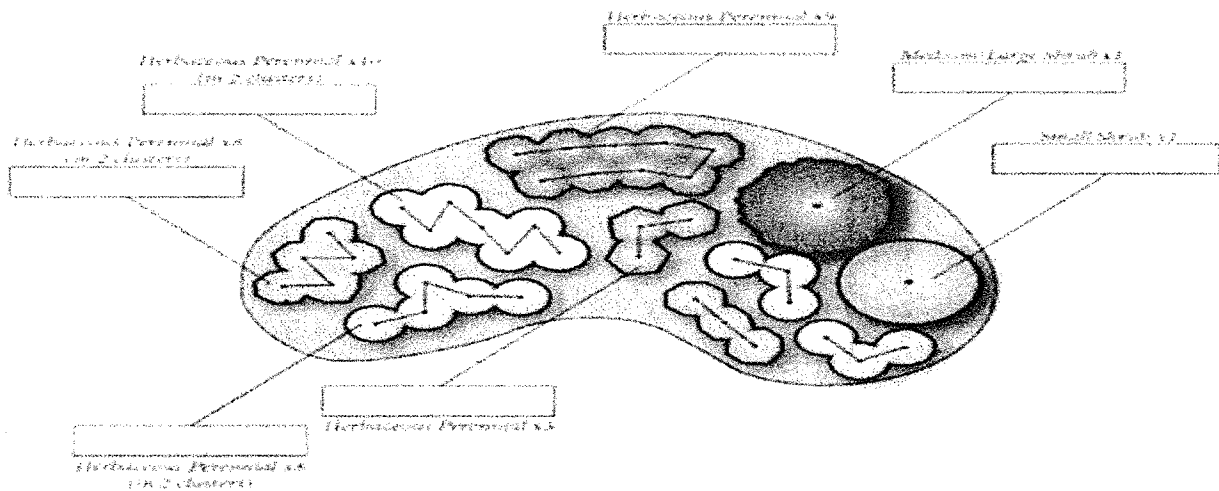
### Funding Available to Plant Native Gardens—Save Up to 80%

Thinking about adding some new landscaping to your yard? The Alliance for the Chesapeake Bay is offering financial assistance as part of its **Reduce Your Stormwater** program to help property owners install native plants. These native gardens help reduce stormwater runoff, attract pollinators like butterflies and bees, and protect local water quality. Lower Allen Township property owners are eligible for up to 80% off plants and materials. There is also limited funding available for professional Rain Garden installation. If you're not sure how to design your garden, the online Yard Design Tool will walk you through the steps. Apply by 12/31/2017.



For more information and to apply, visit: [www.stormwater.allianceforthebay.org](http://www.stormwater.allianceforthebay.org) directed to (717) 737-8622 or [acampbell@allianceforthebay.org](mailto:acampbell@allianceforthebay.org).

Butterfly Garden Bayscape - 90 square feet (contained in 14.5 x 9 foot area)









## ATTACHMENT # 8

STORMWATER & MS-4 ACTIVITY TRACKING CHART







A	B	C	D	E	F	G
			Identifier			
Date	Employee	Location	Permit #	SLD or DP #	Other	Description of Actions
4/1/2016	DJF	1301 Carlisle Rd.		DP 2016-01		Construction permit
4/2/16	JME	Yellow Breeches Creek	NA	NA	MS4	Coordinate public outreach and cleanup event for Trout Day
4/4/2016	DJF	4600 Lena Dr		SLD 2013-06		SWM design review
4/4/2016	DJF	Cliffs/Allendale			MS4	Channel improvement project
4/4/2016	DJF	4825 Gettysburg Rd				Meeting with designer re: potential site construction project
4/4/16	JME	NA	NA	NA	MS4	Follow up from trout Day event with sponsor agencies and LAT MS4 coordinator
4/4/16	RJA	Stone Gate		SLD 2015-13		Checked RCE entrances to site. Neither comply.
4/5/2016	DJF	Cliffs/Allendale			MS4	Channel improvement project
	WPG	Public Works Facility			MS4	Tour public works facilities in order to evaluate current O & M plan in accordance with MCM # 6
4/5/2016	WPG	LAT Office			MS4	Meet with Julie Enterline about website and public education information in accordance with MCM # 1 & 2
4/6/2016	DJF	Cliffs/Allendale			MS4	Channel improvement project
4/6/16	RJA	Stone Gate		SLD2015-13		Lisburn RCE is compliant. Permit pending.
4/8/2016	RJA	8 Hartzdale Dr				Inspected rear yard for obstruction at drainage easement. Large tree had fallen near the stream. Property owner to clean up.
4/11/2016	DJF	Cliffs/Allendale			MS4	Channel improvement project
4/12/2016	DJF	Stone Gate Village		SLD 2015-13		NPDES permit/CCCCD
4/12/16	JME	NA	NA	NA	MS4	Follow up from YBWA creek-friendly landscape contest 2015
4/13/2016	DJF	1400 St Johns Rd			MS4	PW shop/data research
4/13/2016	DJF	2239 Gettysburg Rd			MS4	Cedar Spring Run Park: SW quality inlets
4/13/2016	DJF	St Johns Rd			MS4	PW storm drainage project
4/14/2016	DJF	St Johns Rd			MS4	PW storm drainage project
4/14/2016	DJF	Highpoint, Phase 1.1, 1.2, 1.4		SLD 2014-01		Site inspection
4/14/2016	DJF	4530 Lena Dr		SLD 2015-04		Site inspection
4/18/16	JME	NA	NA	NA	MS4	Follow up from YBWA creek-friendly landscape contest 2015
4/19/2016	DJF	1301 Carlisle Rd.		DP 2016-01		Construction permit
4/19/2016	DJF	850 Lisburn Rd		SLD 2013-07		Brooks Edge: Site/basins inspection
4/19/2016	DJF	Cliffs/Allendale			MS4	Channel improvement project
4/19/16	JME	NA	NA	NA	NS4	Follow up from trout Day event with sponsor agencies and LAT MS4 coordinator
04/19/16	JME	NA	NA	NA	MS4	Assist Field & Stream staff with Cedar Run cleanup planning
04/19/16	RJA	950 Woodlands		DP 2014-04		E and S controls. E-mailed contractor.
	JME	NA	NA	NA	MS4	Coordinate contact between Field & Stream staff and LAT MS4 coordinator for cleanup event
4/20/2016	DJF	Cliffs/Allendale			MS4	Channel improvement project
4/20/2016	WPG	Silver Spring Twp.			MS4	Attended offsite MS-4 training session



	A	B	C	D	E	F	G
							Following staff complaint, saw waste water being deposited out of the roll up door at Spera Dr. flowing in the ROW to outfall CSR5.0. Also saw several uncovered containers of beer production by-product, cracked grains etc. stored outside of the building in barrels and laying on the pavement near the door. NOV pending.
35	4/20/2016	RJA	2238 Gettysburg Rd.	20150438		MS4	E-mailed contractor about required RCE and E and S status in general. Asked again to be copied on e-mails for SW facilities.
36	4/20/2016	RJA	950 Woodland St.				David Youtz noticed illegal discharge and notified other staff via e-mail.
37	04/20/16	DY	Microbrewery 2238 Gettysburg Road	NA	NA	MS4	Performed site observation of address as a follow-up to observations by Twp. Staff. Did not see violation, but verified stained pavement. Observed stream nearby, no obvious damage or fish kill. Began violation follow-up and letter.
38	4/21/2016	WPG	2238 Gettysburg Rd.	20150438		MS4	Ray Allen visited the facility in the early morning and notified them that the discharge was illegal. WPG went to site later in the afternoon and found it unoccupied.
39	04/21/16	RA/WPG	Microbrewery 2238 Gettysburg Road	NA	NA	MS4	Witnessed substantial flow from pipe that contains drainage from the Mall and car wash. No suds or other IDD seen.
40	4/22/2016	RJA	3525 Hartzdale Dr.			MS4	Assist Field & Stream staff with Cedar Run cleanup planning
41	04/22/16	JME	NA	NA	NA	MS4	Coordinate YBWA participation in Field & Stream cleanup event
42	04/25/16	JME	NA	NA	NA	MS4	forward Field & Stream event flyer to YBWA and LAT for public distribution/outreach
43	04/25/16	JME	NA	NA		MS4	PW storm drainage project
44	4/26/2016	DJF	St Johns Rd			MS4	Inspected E and S controls at RCE driveway. Contractor to place more stones but also clean street daily and place bags in inlet boxes.
45	4/26/2016	RJA	950 Woodland St.		DP 2012-04		Temporary e and s mounds and rip rap at Phase 1.2 transition are in place.
46	4/26/2016	RJA	Highpoint Phase 1.1				Violation letter sent to Owner and occupant.
47	4/26/2016	WPG	Microbrewery 2238 Gettysburg Road			MS4	SLD Site Stabilization Controls in Place
48	4/27/2016	REL	3258 Mission Hill Rd	20160137		MS4	Drainage plan design review
49	4/29/2016	DJF	4925 Ritter Rd.		DP 2016-02		Annual Gardeners Gathering
50	4/30/2016	DP	Lower Allen Community Park			MS4	Drainage plan design review
51	5/2/2016	DJF	4925 Ritter Rd.		DP 2016-02		SWM design review
52	5/2/2016	DJF	Stone Gate Village		SLD 2015-13		Follow-up on WSSD letter regarding accidental discharge to MS-4 system.
53	5/2/2016	WPG	Cedar Cliff HS			MS4	Stopped in on Brewery, checked on letter and current activities. Explained violations and pollution to staff present.
54	5/2/2016	WPG	Microbrewery 2238 Gettysburg Road			MS4	BV West: impervious coverage inquiry/review
55	5/3/2016	DJF	5225 Wilson Lane			MS4	Pre-con meeting w/Landtek and CCHS
56	5/3/2016	RJA	CCHS Stadium				Pipe installed MH-A79 to H17
57	5/4/2016	RJA	Arcona Phase 1.5 SW pipe				Brooks Edge - basin status
58	5/6/2016	RJA	850 Lisburn Rd				Participated in stream cleanup at northern unnamed tributary of Cedar Creek near Field & Stream
59	5/7/2016	WPG	Field & Stream			MS4	MS4 info exchange
60	5/9/2016	DJF	LAT/Hampden Twp.			MS4	PW storm drainage project
61	5/9/2016	DJF	St Johns Rd			MS4	PW storm drainage project
62	5/10/2016	DJF	St Johns Rd			MS4	PW storm drainage project
63	5/11/2016	DJF	St Johns Rd			MS4	PW storm drainage project



	A	B	C	D	E	F	G
4	5/11/2016	DJF	LAT			MS4	BMP agreements; database
5	5/11/2016	WPG	Cedar Cliff H.S.			MS4	Conducted inspection of boiler room and notified WSSD of prohibited discharge.
6	5/12/2016	DJF	St Johns Rd			MS4	PW storm drainage project
7	5/16/2016	DJF	St Johns Rd			MS4	PW storm drainage project
8	5/16/2016	DJF	Lonk Lane			MS4	Field investigation: swale
9	5/18/2016	WPG	MCM #1			MS4	Field & Stream Stream Clean-up & Community Day link posted on Twp. Facebook page
10	5/18/2016	DJF	Lonk Lane			MS4	Follow up: Field investigation; swale
11	5/18/2016	WPG	MCM #1			MS4	Article on grass clippings "Leave it on the lawn" publishes on Twp. Web site.
12	5/19/2016	DJF	1301 Carlisle Rd.		DP 2016-01		SWM BMP design review
13	5/20/2016	RJA	950 Woodlands		DP 2012-04		BMP dug. No inspection by LAT prior
14	5/25/2016	WPG/SM	Entire Twp.			MS4	Second notice sent out to non-respondants regarding BMP maintenance reports.
15	5/26/2016	RJA	950 Woodlands		DP 2012-04		SW BMP storage features under construction.
16	5/27/2016	WPG/SM	Entire Twp.			MS4	Begin search for missing BMP agreements
17	5/31/2016	RJA	950 Woodlands		DP 2012-04		BMP complete. Field checked with site Engineer.
18	6/1/2016	DJF	4925 Ritter Rd.		DP 2016-02		Drainage plan design review
19	6/2/2016	REL	1748 Liberty Cove	20160129		MS4	Rock Construction entrance, silt fence & concrete washout sign
20	6/2/2016	DJF	4925 Ritter Rd.		DP 2016-02		Drainage plan design review
21	6/7/2016	DJF	4925 Ritter Rd.		DP 2016-02		Drainage plan design review
22	6/7/2016	DJF	2645 Lisburn Rd			MS4	CLA basin maintenance
23	6/7/2016	DJF	St Johns Rd			MS4	PW storm drainage project
24	6/9/2016	JME	NA	NA	NA	MS4	Participate in YBWA meeting to plan Yellow Breeches Creek cleanup event
25	6/10/2016	DJF	St Johns Rd			MS4	PW storm drainage project
26	6/13/2016	DJF	St Johns Rd			MS4	PW storm drainage project
27	6/14/16	JME	NA	NA	NA	MS4	Coordinate contact between Field & Stream staff and LAT MS4 coordinator for cleanup event
28	6/14/2016	DJF	4530 Lena Dr		SLD 2015-04		Site inspection
29	6/14/2016	DJF	850 Lisburn Rd		SLD 2013-07		Brooks Edge: Site/basins inspection
30	6/14/2016	JME	NA	NA	NA	MS4	Participate in ACB's watershed festival representing YBWA-promoted source water protection, creek cleanup and conservation landscaping
31	6/16/2016	DJF	LAT			MS4	Annual Report
32	6/16/2016	REL	1748 Liberty Cove	20160129		MS4	Rock Construction entrance, silt fence & concrete washout sign
33	6/17/2016	DJF	LAT			MS4	Annual Report; database
34	6/21/2016	DJF	LAT			MS4	Annual Report; database
35	6/22/2016	DJF	1400 St Johns Rd			MS4	PW Shop: E&S controls for stockpiled material
36	6/24/2016	RJA	Arcona Phase 1.5 SW pipe				End wall and inlet box inspection.
37	6/24/2016	WPG	MS4 Program	NA	NA	MS4	Submit annual report for permit year 03-15 to 04-16 to DEP.
38	6/27/2016	DJF	4600 Lena Dr		SLD 2013-06		SWM design review
39	6/27/2016	DJF	St Johns Rd			MS4	PW storm drainage project
40	6/28/2016	DJF	4600 Lena Dr		SLD 2013-06		SWM design review



	A	B	C	D	E	F	G
01	6/28/2016	WPG	WSSD Violation Follow-upo			MS4	Confirm that non-permitted flows have been removed from MS-4 system
02	6/29/2016	DJF	4600 Lena Dr		SLD 2013-06		SWM design review
03	7/1/2016	RJA	3404 Choco Chase	20160211			Inspected BMP and found installed according to approved plan.
04	7/6/2016	JME	NA	NA	NA	MS4	Plan and promote YBWA creek cleanup
05	7/7/2016	DJF	4155 Birchwood Lane			MS4	Drainage Plan/BMP design review
06	7/8/2016	DJF	850 Lisburn Rd		SLD 2013-07		Brooks Edge: Site/basins inspection
07	7/8/2016	DJF	4600 Lena Dr		SLD 2013-06		Site inspection
08	7/11/2016	JME	NA	NA	NA	MS4	promote YBWA creek cleanup
09	7/12/2016	RJA	CCHS Stadium		DP 2016-01		Mtg and E and S control inspection
10	7/13/2016	DJF	St Johns Rd			MS4	PW storm drairage project
11	7/13/2016	JME	NA	NA	NA	MS4	Scout creek cleanup route for safety & logistics
12	7/14/2016	DJF	LAT			MS4	Review PIPP plan
13	7/14/2016	DJF	2239 Gettysburg Rd			MS4	CSR Park: inspect rain gardens; WQ inlet inserts
14	7/14/2016	DJF	St Johns Rd			MS4	PW storm drairage project
15	7/14/2016	JME	NA	NA	NA	MS4	Safety & logistical planning for creek cleanup
16	7/17/2016	JME	NA	NA	NA	MS4	Participated in YBWA's Yellow Breeches Creek cleanup
17	7/19/2016	DJF	Lewisburg, Pa.			MS4	DEP training on new MS4 permit
18	7/19/2016	RJA	4600 Lena Dr	NA	NA	MS4	Site meeting with ECI and CH and N site. Silt bag to be placed tomorrow. RCE in place.
19	7/20/2017	DJF	2800 Appleton St		DP 2016-04		NEMF: meeting with design engineer
20	7/20/2017	DJF	LAT			MS4	Review written plans for MS4 Permit compliance
21	7/25/2016	WPG	NA	NA	NA	MS4	Attended DEP Training on MS4 and NOI Submission
22	7/26/2016	RJA	Marzonis 4925 Ritter Rd.		DP 2016-02		Pre-construction meeting w/CCCD
23	7/28/2016	RJA	4600 Lena Dr		SLD 2013-06		E and S at Westport completed. Advised ECI about potential dust problems.
24	8/2/2016	DJF	NA	NA	NA	MS4	DEP audit of MS4 program
25	8/2/2016	RJA	4600 Lena Dr.	20160399	SLD 2013-06		E-mailed ECI about dust control
26	8/2/2016	RJA	Stone Gate		SLD 2015-13		SW pipe installation H to H2. Parge in place. Tom to call prior to collar pour.
27	8/3/2016	DJF	LAT			MS4	DEP site inspection/audit info.
28	8/3/2016	RJA	4600 Lena Dr.		SLD 2013-06		Basin Excavation - Topsoil storage to be placed at Arcona. Monitor dust complaints. Water truck on site.
29	8/4/2016	DJF	LAT			MS4	DEP site inspection/audit info.
30	8/4/2016	RJA	Carlisle Rd. PAWC project				E-mailed PAWC about street cut debris and inlet protection.
31	8/4/2016	RJA	20160211				BMP Agreement Recorded 6/23/16. Final inspection passed.
32	8/5/2016	DJF	3415 and 3417 Canyon Creek	20160531			Excavation and Fill Permit review
33	8/8/2016	DJF	4925 Ritter Rd.		DP 2016-02		Drainage plan design review
34	8/8/2016	RJA	Stone Gate		SLD 2015-13		SW MH inspection MS1
35	8/8/2016	RJA	Phase 1.2/1.5				E and S during curb inspections
36	8/9/2016	DJF	4925 Ritter Rd.		DP 2016-02		Drainage plan design review
37	8/9/2016	RJA	Phase 1.2				E and S at 1.3 transition



A	B	C	D	E	F	G
38 8/10/2016	RJA	Phase 1.2/1.5				Subgrade at 1.2 starts. Grading for Strong Rd curbing inspected. Swale discussed w/Don Church
39 8/10/2016	RJA	Stone Gate		SLD 2015-13		Spoke to Chris of Triple Crown. Concrete washout to be installed for tomorrow's concrete work.
40 8/11/2016	DJF	800 Rupp Avenue			MS4	Drainage condition survey
41 8/11/2016	DJF	2239 Gettysburg Rd			MS4	CSR Park: rain gardens/seed specifications
42 8/11/2016	RJA	950 Woodlands		DP 2012-04		Sent site Eng e-mail to clean up concrete washout mess and to update BMP install. Inspections not requested.
43 8/12/2016	RJA	Stone Gate		SLD 2015-13		Yetter Ct. SW box. Parge completed.
44 8/12/2016	RJA	4600 Lena Dr				Temporary basin (pending CCCD/LAT approved as revised) was installed. Advised orange safety fence. Dust OK.
45 8/15/2016	DJF	800 Rupp Avenue			MS4	Drainage condition survey
46 8/17/2016	RJA	Highpoint - Phase 1.2 and 1.5		SLD 2015-08		Phase 1.2 and 1.5 E and S controls and E-mails
47 8/18/2016	RJA	Highpoint 1.5				Still no RCE from Arcona at 1.5 or 1.3 Jerry Gaeter contacted CH&N commercial for repairs and new RCE placement.
48 8/18/2016	RJA	Stone Gate		SLD 2015-13		3 concrete seepage collars. E-mailed Desanto for RCE repairs and concrete washout fail.
49 8/26/2016	DJF	St. Johns Rd			MS4	PW storm drainage project
50 8/29/2016	DJF	Cliffs/Allendale			MS4	Channel improvement project
51 8/29/2016	DJF	LAT			MS4	DEP site inspection report
52 8/30/2016	DJF	Cliffs/Allendale			MS4	Channel improvement project
53 8/31/2016	DJF	LAT			MS4	County/municipal MS4 working group meeting
54 8/31/2016	RJA	4925 Ritter Rd.	20160411	SLD 2007-05		Site inspection. Head wall to pipe at BMP outfall.
55 9/1/2016	DJF	Cliffs/Allendale			MS4	Channel improvement project. Survey; plans.
56 9/2/2016	DJF	4925 Ritter Rd.	20160411	SLD 2007-05		Site inspection.
57 9/2/2016	DJF	4600 Lena Dr.		SLD 2013-06		Site inspection.
58 9/6/2016	DJF	St. Johns Rd			MS4	PW storm drainage project
59 9/7/2016	DJF	St. Johns Rd			MS4	PW storm drainage project
60 9/9/2016	RJA	4925 Ritter Rd.		SLD 2007-05		End wall to bio-garden. Void at trench line.
61 9/9/2016	DJF	LAT			MS4	DEP Permit Application/PRP mapping and data
62 9/12/2016	DJF	4075 Lisburn Road			MS4	LACP drainage issues
63 9/13/2016	RJA	4925 Ritter Rd.		SLD 2007-05		Bio grid in place at biogarden.
64 9/14/2016	DJF	St. Johns Rd			MS4	PW storm drainage project
65 9/14/2016	RJA	Stone Gate		SLD 2015-13		Inlets E and F. E-mails to contractor
66 9/15/2016	DJF	4075 Lisburn Road			MS4	LACP Fun Fort drainage issues
67 9/15/2016	DJF	Cliffs/Allendale			MS4	Channel improvement project
68 9/15/2016	DJF	1250 Slate Hill Road		SLD 2016-06		SLD/E&S Plan review
69 9/16/2016	DJF	2415 Massachusetts Avenue		DP 2016-03		Plan review
70 9/20/2016	JME	Stone Gate		SLD 2015-13	MS4	Observed and reported failing RCE to Nic DiSanto, CC: RJA and Vince McCollum
71 9/20/2017	DJF	2800 Appleton Street NEMF		DP 2016-04		Plan review



	A	B	C	D	E	F	G
172	9/21/2016	DJF	4075 Lisburn Road			MS4	LACP Fun Fort drainage issues
173	9/21/2016	JME	NA	NA	NA	MS4	Attend YBWA meeting--discuss 2017 education & outreach events
174	9/22/2016	RJA	1301 Carlisle Rd.	20160029	DP 2016-01		BMP foacl point site inspection. Final inspection pending.
175	9/23/2016	DJF	4600 Lena Dr.		SLD 2013-06		Review plan revisions.
176	9/26/2016	DJF	2415 Massachusetts Avenue		DP 2016-03		Plan review
177	9/26/2016	RJA	4600 Lena Dr.		SLD 2013-06		Basin Wrap. OK per Tim Dewire.
178	9/27/2016	DJF	2415 Massachusetts Avenue		DP 2016-03		Plan review
179	9/27/2016	DJF	LAT			MS4	MS4 info for LAT newsletter.
180	9/28/2016	DJF				MS4	DEP MS4/PRP training
181	9/29/2016	DJF	LAT			MS4	DEP Permit Application/PRP mapping and data
182	9/30/2016	DJF	LAT			MS4	DEP Permit Application/PRP mapping and data
183	10/3/2016	DJF	4600 Lena Dr.		SLD 2013-06		Site inspection
184	10/3/2016	DJF	4732 Gettysburg Rd. EPW5		SLD 2014-02		Site inspection
185	10/4/2016	RJA	Arcona 1.5		SLD 2015-08		Terra Park graded but no approval granted.
186	10/5/2016	RJA	4600 Lena Dr.	2015-0399	SLD 2013-06		Manhole installed to SW system. E and S controls are OK.
187	10/6/2016	DJF	2415 Massachusetts Avenue		DP 2016-03		Plan review
188	10/6/2016	RJA	4526 Woods Way	20160562			Protection is in place at the stone trench. Bag or silt fence pending at the inlet box.
189	10/7/2016	RJA	4732 Gettysburg Rd.	20160206	SLD 2014-02		Site inspection fo CO. Failed pending plantings and 3rd Party NPDES field notes and pics from Mike Bracken.
190	10/10/2016	DJF	4530 Lena Dr		SLD 2015-04		Site meeting; research
191	10/12/2016	DJF	LAT			MS4	Mapping for Bay PRP
192	10/14/2016	DJF	LAT			MS4	Mapping for Bay PRP
193	10/17/2016	DJF	LAT			MS4	Mapping for Bay PRP
194	10/18/2016	DJF	4530 Lena Dr		SLD 2015-04		Site inspection; memo
195	10/20/2016	RJA	Highpoint 1.5		SLD 2015-08		NOV pending for lacking concrete washout area and sign.
196	10/20/2016	RJA	Stone Gate		SLD 2015-13		E-mailed Nic. Site status of E and S. Need 3rd party sign off of basins.
197	10/24/2016	DJF	LAT			MS4	Mapping for Bay PRP
198	10/26/2016	RJA	Stone Gate		SLD 2015-13		E and S at Utility cuts. St. Johns Rd installed without inspections
199	10/26/2016	DJF	Highpoint 1.5				Site inspection
200	10/26/2016	DJF	Stone Gate Village		SLD 2015-13		Site inspection
201	10/27/2016	DJF	Cliffs/Allendale			MS4	Channel improvement project
202	10/31/2016	DJF	2800 Appleton Street NEMF		DP 2016-04		Plan review; ZHB preparation
203	10/31/2016	RJA	Marzoni's	20160411	SLD 2007-05		Water meter pit at SW inspected. E and S OK.
204	11/1/2016	DJF	2800 Appleton Street NEMF		DP 2016-04		Plan review; ZHB preparation
205	11/1/2016	DJF	W. Maple/Belmont			MS4	Drainage project base plans
206	11/2/2016	RJA	Highpoint - Phase 1.3		SLD 2016-04		E-mail sent. Replace silt sock at edge of wetlands as needed. Monitor sock at 1.3 to 1.4 transition.
207	11/3/2016	DJF	LAT			MS4	Mapping for permit
208	11/4/2016	DJF	W. Maple/Belmont			MS4	Drainage project base plans
209	11/4/2016	DJF	LAT			MS4	MS4 coordination with Hampden Township



A	B	C	D	E	F	G
10/11/7/2016	DJF	W. Maple/Belmont			MS4	Drainage project base plans
11/11/8/2016	RJA	1504 Woodcreek Rd	20160528			Approved BMP for pool and patio area. Contractor to place perforated pipe at inspection port.
12/11/9/2016	DJF	LAT			MS4	Mapping for permit
13/11/9/2016	RJA	1301 Carlisle Rd.	20160029	DP 2016-01		Witnessed focal point test with John Sullivan, LandTeks 3rd party inspector
14/11/16/2016	RJA	Phase 1.2		SLD 2014-08		E and S @ 1.2 OK.
15/11/17/2016	DJF	2800 Appleton Street NEMF		DP 2016-04		Plan review; ZHB preparation
16/11/23/2016	DJF	LAT/MS/CSR Park			MS4	Meeting w/scout re: BMP info project
17/11/28/2016	DJF	LAT			MS4	Mapping for permit/PRP
18/11/29/2016	DJF	LAT			MS4	Mapping for permit/PRP
19/11/30/2016	DJF	LAT			MS4	Mapping for permit/PRP
20/11/30/2016	DJF	LAT			MS4	Storm event inspections
21/12/6/2016	DJF	LAT			MS4	Newsletter article re: MS4
22/12/6/2016	DJF	4601 Gettysburg Rd		DP 2016-05		Drainage Plan review
23/12/7/2016	DJF	LAT			MS4	DEP permit information
24/12/8/2016	DJF	4601 Gettysburg Rd		DP 2016-05		Drainage Plan review
25/12/9/2016	DJF	4601 Gettysburg Rd		DP 2016-05		Drainage Plan review
26/12/12/2016	DJF	LAT			MS4	Mapping for permit/PRP
27/12/13/2016	DJF	LAT			MS4	Mapping for permit/PRP
28/12/14/2016	DJF	4601 Gettysburg Rd		DP 2016-05		Drainage Plan review
29/12/14/2016	DJF	LAT			MS4	Mapping for permit/PRP
30/12/14/2016	JME	NA	NA	NA	MS4	Attend YBWA meeting--select & plan 2017 education & outreach events , including conservation landscape/rain garden contest
31/12/15/2016	DJF	LAT			MS4	Mapping for permit/PRP
32/12/19/2016	DJF	LAT			MS4	Mapping for permit/PRP; O&M agreement files
33/12/20/2016	DJF	LAT			MS4	Mapping for permit/PRP
34/12/21/2016	DJF	LAT			MS4	O&M agreement files
35/12/22/2016	DJF	LAT			MS4	BMP list; annual O&M reporting letters
36/12/28/2016	DJF	LAT			MS4	BMP annual inspection forms
37/12/29/2016	DJF	LAT			MS4	BMP annual inspection forms
38/12/30/2016	DJF	LAT			MS4	BMP annual inspection forms; transmittal letters
39/12/29/2016	JME	NA	NA	NA	MS4	Follow up planning for YBWA contest/promotion/involvement of MS 4 coordinators
10/1/3/2017	DJF	LAT			MS4	BMP annual inspection forms; transmittal letters; agreements
11/1/5/2017	DJF	LAT			MS4	BMP annual inspection forms; transmittal letters
12/1/5/2017	DJF	3432 Lisburn Road		DP 2017-01		Plan review; meeting w/engineer
13/1/6/2017	JME	NA	NA	NA	MS4	Promotional efforts for YBWA/ACB conservation landscape/rain garden contest
14/1/13/2017	RJA	4600 Lena Dr		SLD 2013-06		Spoke to Jeff Ulm about mud in streets. Told him to restore RCE as needed until project is done.
15/1/13/2017	RJA	2415 Massachusetts Ave.	20160551	DP 2016-03		Inspected BMP for new dwelling under constructed. BMP Agreement is recorded.
16/1/16/2017	DJF	4601 Gettysburg Rd		DP 2016-05		Drainage Plan review



	A	B	C	D	E	F	G
'47	1/17/2017	DJF	Pa Turnpike bridge over NS Railroad			MS4	review SWM computations
'48	1/19/2017	DJF	4601 Gettysburg Rd		DP 2016-05		Drainage Plan review
'49	1/20/2017	RJA	4925 Ritter Rd.	20160411	SLD 2007-05		Temp CO site inspection - CCCD final pending. E and S, inlet bags etc. still in place
'50	1/20/2017	RJA	Phase 1.3		SLD 2016-04		E and S controls - mud in LIsburn Rd.
'51	1/20/2017	DJF	4601 Gettysburg Rd		DP 2016-05		Drainage Plan review
'52	1/23/2017	DJF	LAT			MS4	BMP annual inspection forms; PRP mapping
'53	1/23/2017	RJA	Phase 1.5		SLD 2015-08		Fire hydrant flow. E-mailed PAWC
'54	1/25/2017	DJF	LAT			MS4	Meeting with engineering consultant re: inspection/reporting program
'55	1/31/2017	RJA	2415 Massachusetts Ave.	20160551			BMP final inspection. Final site inspection. Temp CO pending site stabilization and pvt. Driveway repair to Santa Maria neighbors.
'56	2/21/2017	RJA	Highpoint 1.3		SLD 2016-04		Phase 1.3 - erosion at pending trail connection.
'57	2/22/2017	WPG	Office	NA	NA	MS4	Work on Annual Report for 2016
'58	2/24/2017	JME	OFFICE	NA	NA	MS4	Assist YBWA organization of creekside cleanup
'59	1/26/2017	DJF	LAT			MS4	PRP mapping; permit credits/parsing
'60	1/30/2017	DJF	LAT			MS4	Permit files for PRP
'61	1/31/2017	DJF	4601 Gettysburg Rd		DP 2016-05		Drainage Plan review
'62	1/31/2017	DJF	Cliffs/Allendale			MS4	Channel improvement project
'63	1/31/2017	DJF	LAT			MS4	Permit files for PRP
'64	2/1/2017	DJF	LAT			MS4	Permit files for PRP
'65	2/1/2017	DJF	Cliffs/Allendale			MS4	Channel improvement project
'66	2/1/2017	DJF	4925 Ritter Rd.	20160411	SLD 2007-05		Site inspection.
'67	2/2/2017	DJF	LAT			MS4	PRP mapping; permit credits/parsing
'68	2/2/2017	DJF	Cliffs/Allendale			MS4	Channel improvement project
'69	2/3/2017	DJF	3506 Capital City Mall Drive		SLD 2016-08		SWM BMP Maintenance Agreement
'70	2/7/2017	DJF	LAT			MS4	Review MS4 Permit files for Annual Review
'71	2/7/2017	DJF	852 Wesley Drive - PAWC HQ		SLD 2017-01		SWM Plan review
'72	2/8/2017	DJF	LAT			MS4	Annual Review of MS4 Permit Program
'73	2/9/2017	DJF	LAT			MS4	Permit files for PRP
'74	2/10/2017	DJF	LAT			MS4	Permit files for PRP
'75	2/13/2017	DJF	LAT			MS4	PRP mapping; permit credits/parsing
'76	2/14/2017	DJF	LAT			MS4	Review Expert Panel documentation for PRP
'77	2/15/2017	DJF	LAT			MS4	Constructed BMP database
'78	2/16/2017	DJF	LAT			MS4	BMP database; storm sewer shed mapping for PRP
'79	2/17/2017	DJF	LAT			MS4	Storm sewer shed mapping for PRP
'80	2/21/2017	DJF	LAT			MS4	Prepare materials for Annual Training Program
'81	2/22/2017	DJF	LAT			MS4	Prepare materials for Annual Training Program; work on Annual Report
'82	2/23/2017	DJF	LAT			MS4	Annual Training Program; LAT Public Works; Fleet Management; Community Development; and outside municipalities and agencies
'83	2/24/2017	DJF	LAT			MS4	PRP mapping; DEP data
'84	2/27/2017	DJF	LAT			MS4	PRP mapping; Annual Public Presnetation of LAT MS4 Program



	A	B	C	D	E	F	G
35	3/1/2017	DJF	LAT			MS4	PRP mapping
36	3/2/2017	DJF	LAT			MS4	PRP mapping
37	3/3/2017	DJF	Somerset Drive/Bethany Village			MS4	Street BMP project/funding application
38	3/6/2017	DJF	LAT			MS4	PRP mapping; Street BMP project/funding application
39	3/7/2017	DJF	LAT			MS4	PRP mapping; permit credits/parsing
40	3/8/2017	DJF	LAT			MS4	PRP mapping; permit credits/parsing
41	3/9/2017	DJF	LAT			MS4	PRP mapping; permit credits/parsing
42	3/10/2017	DJF	LAT			MS4	PRP mapping; permit credits/parsing
43	3/13/2017	DJF	LAT			MS4	PRP mapping; permit credits/parsing
44	3/14/2017	DJF	852 Wesley Drive - PAWC HQ		SLD 2017-01		SWM Plan review
45	3/15/2017	DJF	LAT			MS4	PRP mapping; permit credits/parsing
46	3/16/2017	DJF	852 Wesley Drive - PAWC HQ		SLD 2017-01		SWM Plan review
47	3/17/2017	DJF	852 Wesley Drive - PAWC HQ		SLD 2017-01		SWM Plan review
48	3/20/2017	DJF	852 Wesley Drive - PAWC HQ		SLD 2017-01		SWM Plan review
49	3/20/2017	DJF	LAT street system			MS4	Mtg w/scout re: inlet labeling project
50	3/21/2017	DJF	852 Wesley Drive - PAWC HQ		SLD 2017-01		SWM Plan review
51	3/22/2017	DJF	Cliffs/Allendale			MS4	Channel improvement project
52	3/22/2017	DJF	852 Wesley Drive - PAWC HQ		SLD 2017-01		SWM Plan review
53	3/23/2017	DJF	LAT			MS4	MS4 Public Outreach info for Township newsletter
54	3/23/2017	DJF	Cliffs/Allendale			MS4	Channel improvement project
55	3/24/2017	DJF	Cliffs/Allendale			MS4	Channel improvement project
56	3/27/2017	DJF	1 Hartzdale Drive		DP 2017-02		SWM Plan review
57	3/27/2017	DJF	LAT			MS4	Constructed BMP database
58	3/27/2017	DJF	Cliffs/Allendale			MS4	Channel improvement project
59	3/29/2017	DJF	2645 Lisburn Road - CLA			MS4	SWM basin site inspection/meeting
60	3/29/2017	DJF	Cliffs/Allendale			MS4	Channel improvement project
61	3/30/2017	DJF	LAT			MS4	PRP mapping; permit credits/parsing
62	3/31/2017	DJF	LAT			MS4	Storm event site inspections, various locations in MS4
63	06/06 - 06/07	WPG	MS4 Program			MS4	Stormwater Inspector Certification
64	7/7/16 - 7/9/16	WPG	Various Sites			MS4	Inspect Township owned BMP's and prepare memo on conditions
65	3/8/2017	JME	NA	NA	NA	MS4	Attend YBWA meeting--plan education & outreach activities, streamside cleanups
66	12/8/2016	WPG	MS4 Program	NA	NA	MS4	Back into office, get connected and review program status. Start work on BMP Mailing.
67	12/22/2016	WPG	MS4 Program	NA	NA	MS4	Finish BMP Mailing and coordinate with Staci. Evaluate new BMP agreements and track down "issues" add to BMP spreadsheet and scan.
68	1/11/2017	WPG	MS4 Program	NA	NA	MS4	Review BMP list and try to organize deficiencies. Check status of various items needed for program and prepare detailed note for Dan F.
69	1/25/2017	WPG	MS4 Program	NA	NA	MS4	Start in on updates to BMP list, then went on to record letters sent. Moved onto documenting MS-4 activities in the afternoon.



A	B	C	D	E	F	G
320 2/8/2017	WPG	MS4 Program	NA	NA	MS4	Begin work on annual report
321 2/22/2017	WPG	MS4 Program	NA	NA	MS4	Work on annual report and BMP inspection spreadsheet
322 3/22/2017	WPG	MS4 Program	NA	NA	MS4	Work on attachments to the annual report



## ATTACHMENT # 9

IDDE OUTFALL MONITORING INFORMATION







## OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CR 1.0	
Today's Date: 2/3/17		Time (Military): 14:40	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 32	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 2204117.018	Longitude: 325975.526	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes		Photo #s: 0201171305	
Land Use in Drainage Area (Check all that apply): <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Industrial  <input type="checkbox"/> Ultra-Urban Residential            X - Suburban Residential  <input type="checkbox"/> Commercial         </div> <div> <input type="checkbox"/> Open Space  <input type="checkbox"/> Institutional            Other: _____            Known Industries: _____         </div> </div>			
Notes (e.g., origin of outfall, if known): Creek Rd. bridge cross pipe			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
X Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 60 inched _____  In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth:  Top Width:  Bottom Width:	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip



## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

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

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

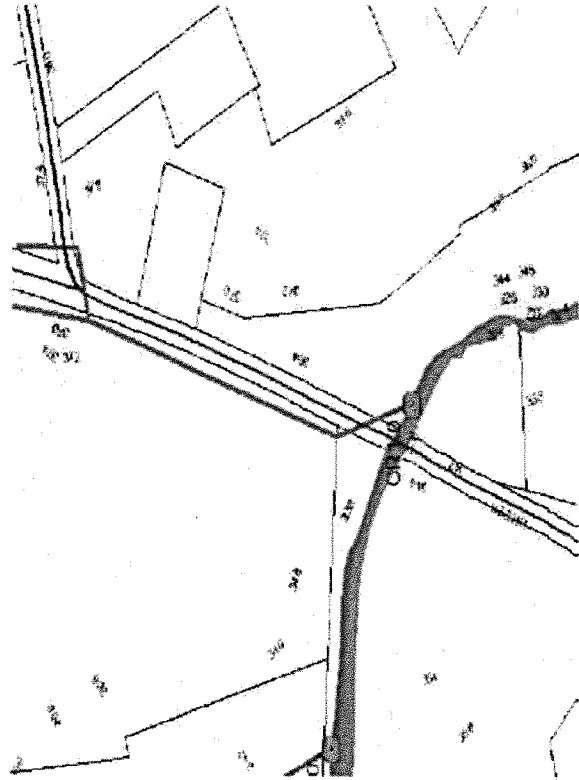
### Section 8: Any Non-Illlicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? No



**Photo:**



**Site:**









## OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CR 2.0	
Today's Date: 2/3/17		Time (Military): 14:40	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 32	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 2203820.452	Longitude: 326075.462	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes		Photo #s: 0201171256	
Land Use in Drainage Area (Check all that apply): <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Industrial  <input type="checkbox"/> Ultra-Urban Residential  <input checked="" type="checkbox"/> Suburban Residential  <input type="checkbox"/> Commercial         </div> <div> <input type="checkbox"/> Open Space  <input type="checkbox"/> Institutional          Other: _____          Known Industries: _____         </div> </div>			
Notes (e.g., origin of outfall, if known): 24-inch cmp discharges at the rear of 1800 Pine St and forms an open earthen drain.			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: _____  In Water: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input checked="" type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: <u>2</u> Top Width: <u>10</u> Bottom Width: <u>4.5</u>	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip



## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
			<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? No



A black and white photograph showing a close-up of a damaged wooden structure, possibly a fence or barrier. The wood is splintered and broken, with debris scattered on the ground. The image is grainy and has a high-contrast, somewhat blurry quality.







## OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CR 4.0	
Today's Date: 12/28/17		Time (Military): 9:04	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 34	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 2197327.9036	Longitude: 324361.7256	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes		Photo #s:	
Land Use in Drainage Area (Check all that apply): <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Industrial  <input type="checkbox"/> Ultra-Urban Residential  <input checked="" type="checkbox"/> Suburban Residential  <input type="checkbox"/> Commercial         </div> <div> <input type="checkbox"/> Open Space  <input type="checkbox"/> Institutional          Other: _____          Known Industries: _____         </div> </div>			
Notes (e.g., origin of outfall, if known): Behind the bard at 3515 Hartzdale Dr.			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input checked="" type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 48 inched _____  In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Fully
	<input type="checkbox"/> Open drainage <input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth:  Top Width:  Bottom Width:	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____', ____"	Ft, In	Tape measure
	Measured length	____', ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip



## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
			<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

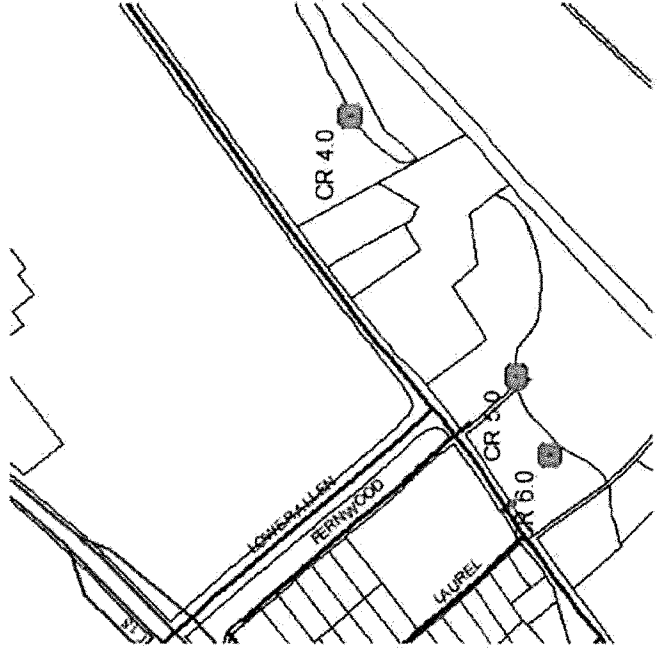
### Section 8: Any Non-Illlicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? No



**Photo:**



**Site:**









## OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CR 5.0	
Today's Date: 2/3/17		Time (Military): 11:34	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 34	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 2196377.442	Longitude: 323770.161	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes		Photo #s:	
Land Use in Drainage Area (Check all that apply): <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Industrial  <input type="checkbox"/> Ultra-Urban Residential  <input checked="" type="checkbox"/> Suburban Residential  <input type="checkbox"/> Commercial         </div> <div> <input type="checkbox"/> Open Space  <input type="checkbox"/> Institutional            Other: _____            Known Industries: _____         </div> </div>			
Notes (e.g., origin of outfall, if known): Behind 3537 Hartzdale Dr.			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input checked="" type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 54 inched _____  In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
	<input type="checkbox"/> Open drainage  <input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth:  Top Width:  Bottom Width:	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip



# Outfall Reconnaissance Inventory Field Sheet

## Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

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

## Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

## Section 6: Overall Outfall Characterization

☒ Unlikely 
 ☐ Potential (presence of two or more indicators) 
 ☐ Suspect (one or more indicators with a severity of 3) 
 ☐ Obvious

## Section 7: Data Collection

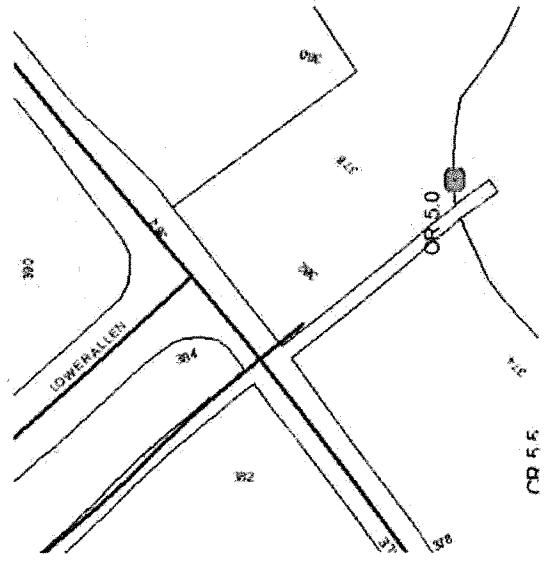
1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No                  If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

## Section 8: Any Non-Ilicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? No





**Photo:**



**Site:**







## OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CR 6.0	
Today's Date: 2/3/17		Time (Military): 11:28	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 34	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 40.2189	Longitude: -76.9347	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes		Photo #s:	
Land Use in Drainage Area (Check all that apply): <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> Industrial  <input type="checkbox"/> Ultra-Urban Residential  <input checked="" type="checkbox"/> Suburban Residential  <input type="checkbox"/> Commercial         </div> <div style="width: 48%;"> <input type="checkbox"/> Open Space  <input type="checkbox"/> Institutional            Other: _____            Known Industries: _____         </div> </div>			
Notes (e.g., origin of outfall, if known): Behind 3605 Hartzdale Dr. Obstructed by 2 rocks at the creek.			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED	
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input checked="" type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <u>18 inched</u>	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth:  Top Width:  Bottom Width:		
<input type="checkbox"/> In-Stream	(applicable when collecting samples)				
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>				
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER	RESULT	UNIT	EQUIPMENT	
<input type="checkbox"/> Flow #1	Volume	Liter	Bottle	
	Time to fill	Sec		
<input type="checkbox"/> Flow #2	Flow depth	In	Tape measure	
	Flow width	____' ____"	Tape measure	
	Measured length	____' ____"	Tape measure	
	Time of travel		Stop watch	
Temperature		°F	Thermometer	
pH		pH Units	Test strip/Probe	
Ammonia		mg/L	Test strip	



## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
			1 - Paint	2 - Easily detected	3 - Noticeable from a distance
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Paint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Paint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input checked="" type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	Outfall has 2 large boulders in front of the pipe opening. Flow is not restricted.
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

<input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Potential (presence of two or more indicators) <input type="checkbox"/> Suspect (one or more indicators with a severity of 3) <input type="checkbox"/> Obvious
--

### Section 7: Data Collection

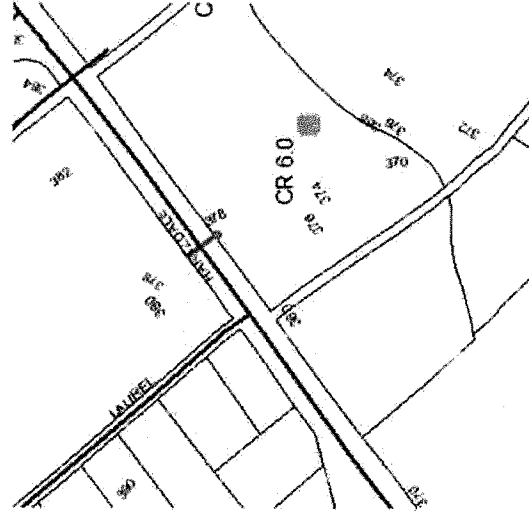
1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

### Section 8: Any Non-Illlicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? No





**Photo:**



**Site:**







## OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CR 7.0	
Today's Date: 2/3/17		Time (Military): 11:25	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 34	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 2,195,304.296	Longitude: 323029.342	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes		Photo #s:	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial <input type="checkbox"/> Ultra-Urban Residential <input checked="" type="checkbox"/> Suburban Residential <input type="checkbox"/> Commercial		<input type="checkbox"/> Open Space <input type="checkbox"/> Institutional Other: _____ Known Industries: _____	
Notes (e.g., origin of outfall, if known): Small channel by tree – Across the creek from 3803 Cedar Ave.			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input checked="" type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <u>2 x 18 inch source</u>  In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input checked="" type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: 2  Top Width: 4  Bottom Width: 2	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	_____, _____"	Ft, In	Tape measure
	Measured length	_____, _____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip



## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

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

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

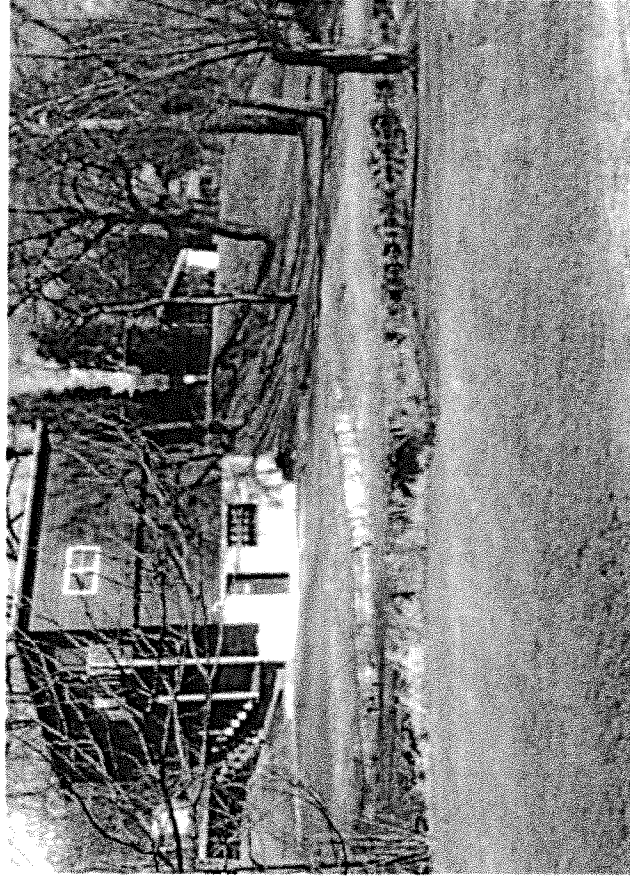
### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

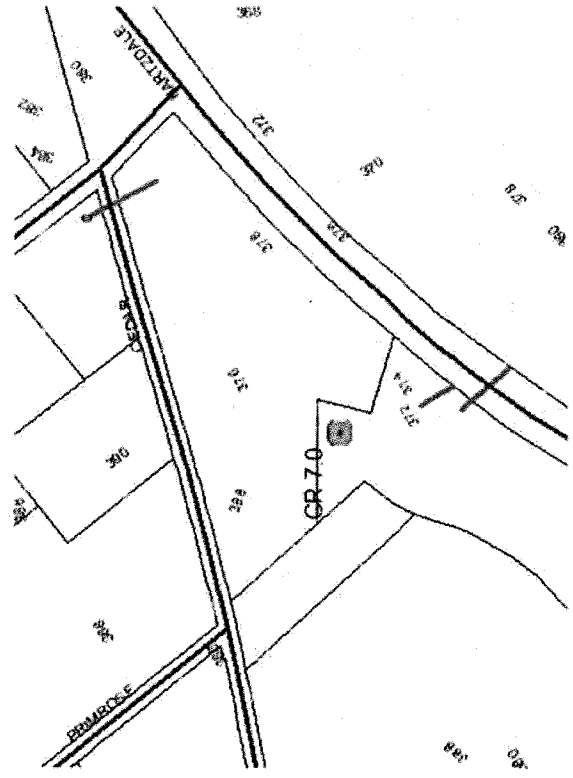
### Section 8: Any Non-Illlicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? No



**Photo:**



**Site:**









## OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CR 8.0	
Today's Date: 2/3/17		Time (Military): 11:09	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 28	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 2193258.266	Longitude: 320794.572	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes	Photo #s:		
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
X - Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): Rossmoyne Manor			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP      X CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 18 _____  In Water: <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
X Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth:  Top Width:  Bottom Width:	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes      X No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip



## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

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

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	Rusted pipe end
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

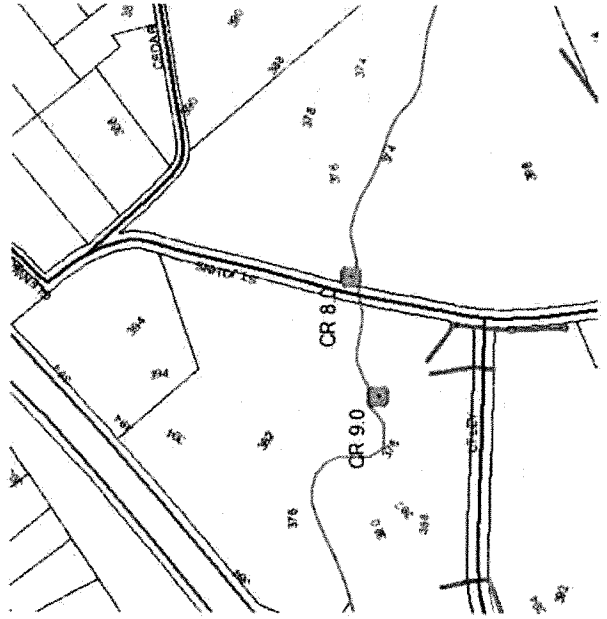
### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? No



**Photo:**



**Site:**









## OUTFALL RECONNAISSANCE INVENTORY/SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CR 9.0	
Today's Date: 2/3/17		Time (Military): 10:40	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 29	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 2194286.6772	Longitude: 323157.3057	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes		Photo #s:	
Land Use in Drainage Area (Check all that apply): <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Industrial  <input type="checkbox"/> Ultra-Urban Residential  <input checked="" type="checkbox"/> Suburban Residential  <input type="checkbox"/> Commercial         </div> <div> <input type="checkbox"/> Open Space  <input type="checkbox"/> Institutional            Other: _____            Known Industries: _____         </div> </div>			
Notes (e.g., origin of outfall, if known): Overflow at pond ware.			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: _____  In Water: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input checked="" type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: 2.5' Top Width: 7' Bottom Width: 3'	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input checked="" type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER	RESULT	UNIT	EQUIPMENT	
<input type="checkbox"/> Flow #1	Volume	Liter	Bottle	
	Time to fill	Sec		
<input type="checkbox"/> Flow #2	Flow depth	In	Tape measure	
	Flow width	Ft, In	Tape measure	
	Measured length	Ft, In	Tape measure	
	Time of travel	S	Stop watch	
Temperature		°F	Thermometer	
pH		pH Units	Test strip/Probe	
Ammonia		mg/L	Test strip	



# Outfall Reconnaissance Inventory Field Sheet

## Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

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

## Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Corrosion <input type="checkbox"/> Peeling Paint	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Suds <input type="checkbox"/> Colors <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

## Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

## Section 7: Data Collection

1. Sample for the lab? ☐ Yes ☒ No

2. If yes, collected from: ☐ Flow ☐ Pool

3. Intermittent flow trap set? ☐ Yes ☐ No If Yes, type: ☐ OBM ☐ Caulk dam

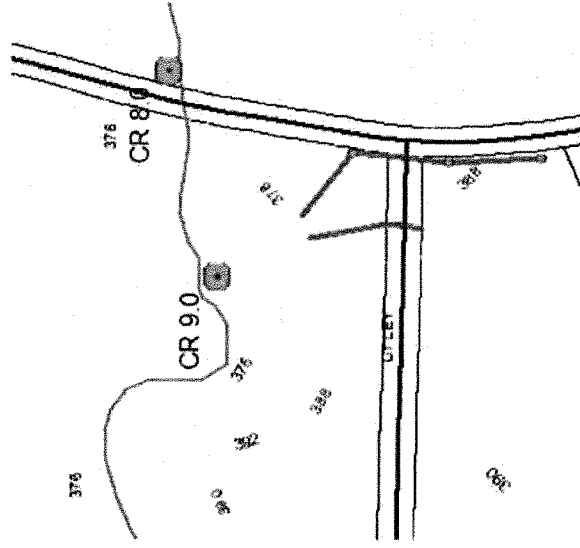
## Section 8: Any Non-Illlicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? No





**Photo:**

**Site:**









## OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CR 10.0	
Today's Date: 12/22/16		Time (Military): 15:23	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 34	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 2193570.0931	Longitude: 323048.9721	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes		Photo #s:	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial <input type="checkbox"/> Ultra-Urban Residential <input checked="" type="checkbox"/> Suburban Residential <input type="checkbox"/> Commercial		<input type="checkbox"/> Open Space <input type="checkbox"/> Institutional Other: _____ Known Industries: _____	
Notes (e.g., origin of outfall, if known): Behind 119 Allen Ct.			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input checked="" type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 18 inched _____  In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth:  Top Width:  Bottom Width:	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip



## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
			<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

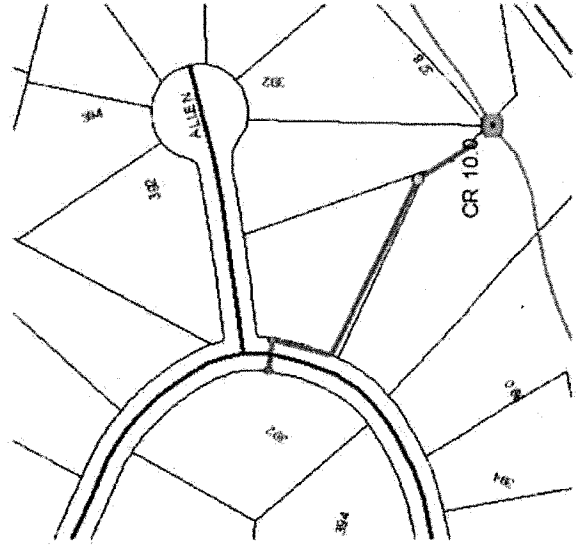
<input checked="" type="checkbox"/> Unlikely	<input type="checkbox"/> Potential (presence of two or more indicators)	<input type="checkbox"/> Suspect (one or more indicators with a severity of 3)	<input type="checkbox"/> Obvious
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### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

### Section 8: Any Non-Illlicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? No











## OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CR 11.0	
Today's Date: 12/22/16		Time (Military): 15:35	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 34	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 2192865.3535	Longitude: 323035.4305	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes		Photo #s:	
Land Use in Drainage Area (Check all that apply): <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Industrial  <input type="checkbox"/> Ultra-Urban Residential  <input checked="" type="checkbox"/> Suburban Residential  <input type="checkbox"/> Commercial         </div> <div> <input type="checkbox"/> Open Space  <input type="checkbox"/> Institutional          Other: _____          Known Industries: _____         </div> </div>			
Notes (e.g., origin of outfall, if known): Behind 137 Limestone Dr.			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input checked="" type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 18 inched _____  In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
	<input type="checkbox"/> Open drainage  <input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth:  Top Width:  Bottom Width:	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip



## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

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

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

### Section 7: Data Collection

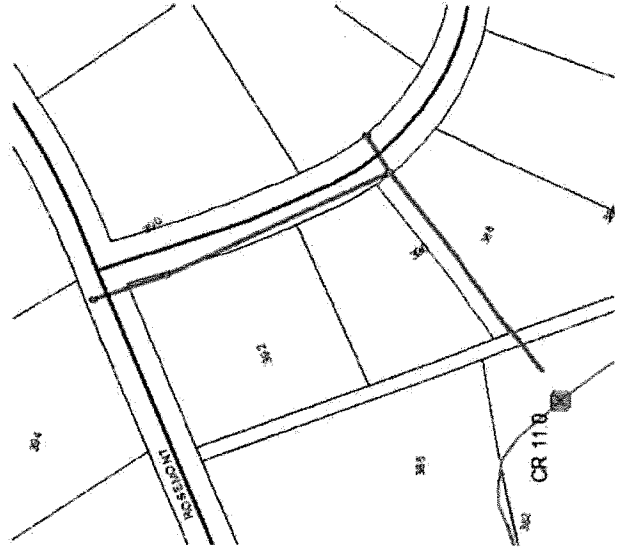
1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? No





**Photo:**



**Site:**







## OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CR 12.0	
Today's Date: 2/1//17		Time (Military): 10:20	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 34	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 2,195,304.296	Longitude: 323029.342	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes		Photo #s:	
Land Use in Drainage Area (Check all that apply): <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Industrial  <input type="checkbox"/> Ultra-Urban Residential  <input checked="" type="checkbox"/> Suburban Residential  <input type="checkbox"/> Commercial         </div> <div> <input type="checkbox"/> Open Space  <input type="checkbox"/> Institutional            Other: _____            Known Industries: _____         </div> </div>			
Notes (e.g., origin of outfall, if known): North of Gettysburg Rd.			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input checked="" type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 2 x 24 inch  In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input checked="" type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: 2  Top Width: 4  Bottom Width: 2	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER	RESULT	UNIT	EQUIPMENT	
<input type="checkbox"/> Flow #1	Volume	Liter	Bottle	
	Time to fill	Sec		
<input type="checkbox"/> Flow #2	Flow depth	In	Tape measure	
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature		°F	Thermometer	
pH		pH Units	Test strip/Probe	
Ammonia		mg/L	Test strip	



## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

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

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

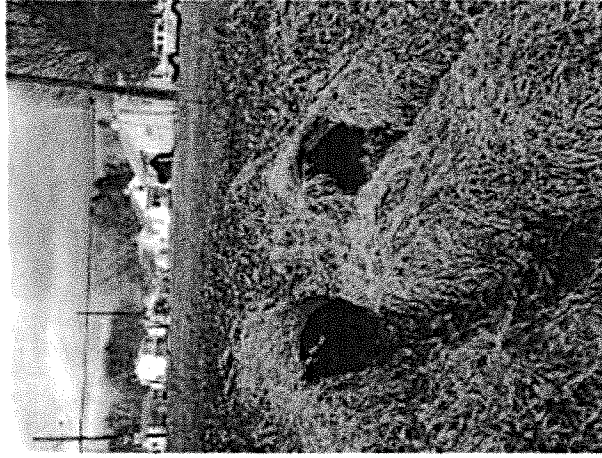
### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

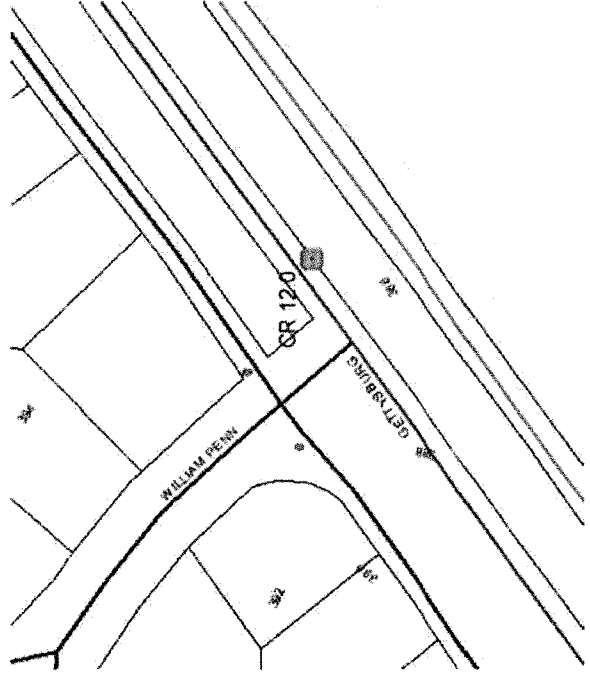
### Section 8: Any Non-Illlicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? No



**Photo:**



**Site:**









## OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CR 13.0	
Today's Date: 2/3/17		Time (Military): 10:05	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 34	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 2190873.578	Longitude: 322104.15	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes		Photo #s:	
Land Use in Drainage Area (Check all that apply): <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Industrial  <input type="checkbox"/> Ultra-Urban Residential  <input checked="" type="checkbox"/> Suburban Residential  <input type="checkbox"/> Commercial         </div> <div> <input type="checkbox"/> Open Space  <input type="checkbox"/> Institutional          Other: _____          Known Industries: _____         </div> </div>			
Notes (e.g., origin of outfall, if known): North of Gettysburg Rd.			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input checked="" type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 30 inch _____  In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input checked="" type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth:  Top Width:  Bottom Width:	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER	RESULT	UNIT	EQUIPMENT	
<input type="checkbox"/> Flow #1	Volume	Liter	Bottle	
	Time to fill	Sec		
<input type="checkbox"/> Flow #2	Flow depth	In	Tape measure	
	Flow width	____', ____"	Tape measure	
	Measured length	____', ____"	Tape measure	
	Time of travel		Stop watch	
Temperature		°F	Thermometer	
pH		pH Units	Test strip/Probe	
Ammonia		mg/L	Test strip	



## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

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

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

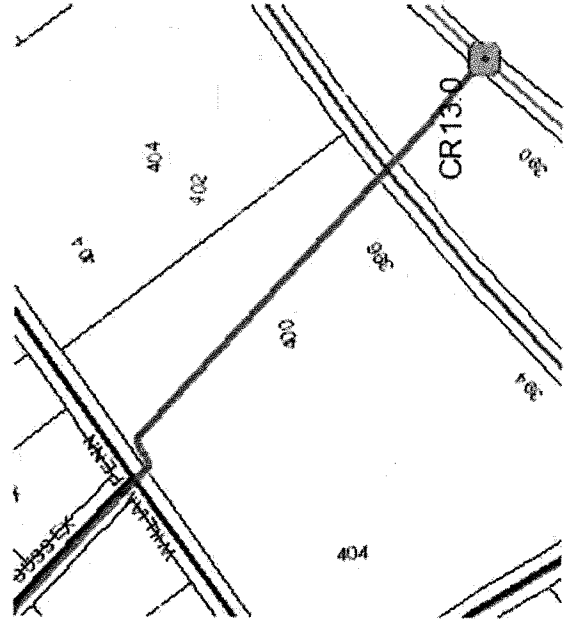
### Section 8: Any Non-Ilicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? No



**Photo:**



**Site:**









## OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CR 14.0	
Today's Date: 2/3/17		Time (Military): 10:00	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 25	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 2190651.8281	Longitude: 322047.9404	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes		Photo #s:	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
X - Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): North of Gettysburg Rd. West of Rupp			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP      X CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 24 inch _____  In Water: X No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: X No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
X Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> X Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth:  Top Width:  Bottom Width:	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes      X No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER	RESULT	UNIT	EQUIPMENT	
<input type="checkbox"/> Flow #1	Volume	Liter	Bottle	
	Time to fill	Sec		
<input type="checkbox"/> Flow #2	Flow depth	In	Tape measure	
	Flow width	____', ____"	Tape measure	
	Measured length	____', ____"	Tape measure	
	Time of travel	S	Stop watch	
Temperature		°F	Thermometer	
pH		pH Units	Test strip/Probe	
Ammonia		mg/L	Test strip	



## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
			1 - Faint	2 - Easily detected	3 - Noticeable from a distance
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Sulfide <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Green <input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Gray <input type="checkbox"/> Red <input type="checkbox"/> Yellow <input type="checkbox"/> Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Suds <input type="checkbox"/> Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Corrosion <input type="checkbox"/> Peeling Paint	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Suds <input type="checkbox"/> Floatables <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely  
 ☐ Potential (presence of two or more indicators)  
 ☐ Suspect (one or more indicators with a severity of 3)  
 ☐ Obvious

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow	<input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes	<input type="checkbox"/> No                       If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

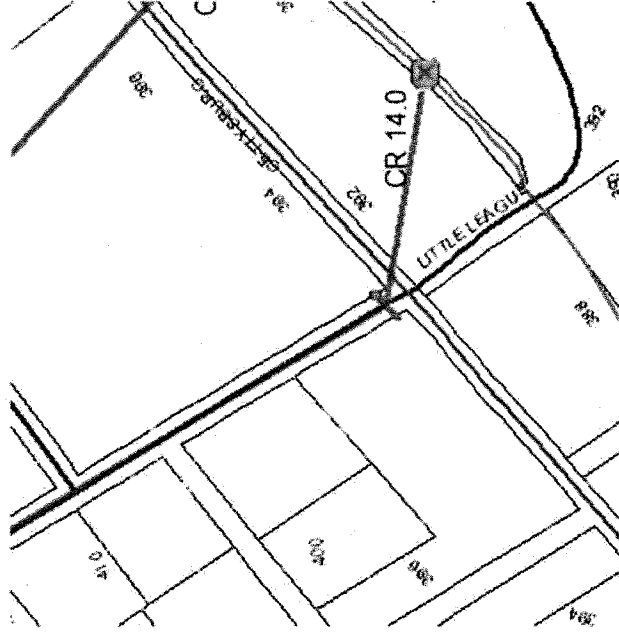
### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? No



Photo:



Site:









## OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CR 15.0	
Today's Date: 2/3//17		Time (Military): 10:00	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 25	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 2190706.583	Longitude: 321912.727	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes		Photo #s:	
Land Use in Drainage Area (Check all that apply): <div style="display: flex; justify-content: space-between;"> <div style="width: 48%;"> <input type="checkbox"/> Industrial  <input type="checkbox"/> Ultra-Urban Residential  <input checked="" type="checkbox"/> Suburban Residential  <input type="checkbox"/> Commercial         </div> <div style="width: 48%;"> <input type="checkbox"/> Open Space  <input type="checkbox"/> Institutional            Other: _____            Known Industries: _____         </div> </div>			
Notes (e.g., origin of outfall, if known): Behind 4533 Gettysburg Rd.			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED	
<input type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input checked="" type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <u>18 inch</u>	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input checked="" type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> X Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth:  Top Width:  Bottom Width:		
<input type="checkbox"/> In-Stream	(applicable when collecting samples)				
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>				
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER	RESULT	UNIT	EQUIPMENT	
<input type="checkbox"/> Flow #1	Volume	Liter	Bottle	
	Time to fill	Sec		
<input type="checkbox"/> Flow #2	Flow depth	In	Tape measure	
	Flow width	Ft, In	Tape measure	
	Measured length	Ft, In	Tape measure	
	Time of travel	S	Stop watch	
Temperature		°F	Thermometer	
pH		pH Units	Test strip/Probe	
Ammonia		mg/L	Test strip	



## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
			<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

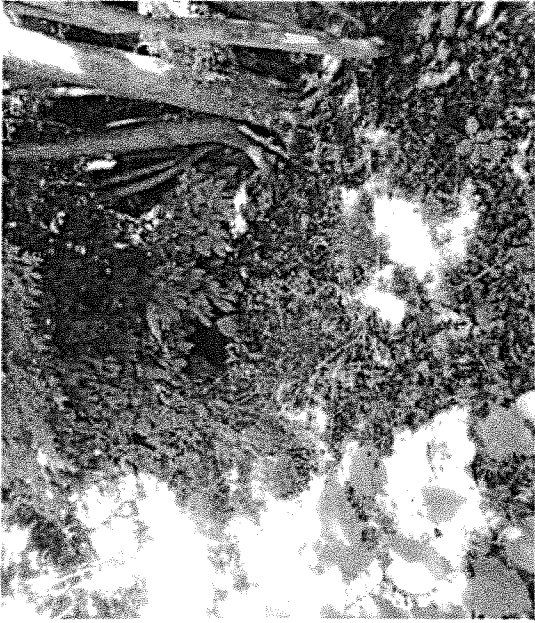
### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

### Section 8: Any Non-Illlicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? No



**Photo:**



**Site:**









## OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CR 16.0	
Today's Date: 2/3//17		Time (Military): 10:00	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 25	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 2189206.3619	Longitude: 320667.4839	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes		Photo #s:	
Land Use in Drainage Area (Check all that apply): <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Industrial  <input type="checkbox"/> Ultra-Urban Residential  <input checked="" type="checkbox"/> Suburban Residential  <input type="checkbox"/> Commercial         </div> <div> <input type="checkbox"/> Open Space  <input type="checkbox"/> Institutional            Other: _____            Known Industries: _____         </div> </div>			
Notes (e.g., origin of outfall, if known): North of Gettysburg Rd.			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input checked="" type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <u>2 x 54 inch</u>  In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input checked="" type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: 2  Top Width: 4  Bottom Width: 2	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER	RESULT	UNIT	EQUIPMENT	
<input type="checkbox"/> Flow #1	Volume	Liter	Bottle	
	Time to fill	Sec		
<input type="checkbox"/> Flow #2	Flow depth	In	Tape measure	
	Flow width	Ft, In	Tape measure	
	Measured length	Ft, In	Tape measure	
	Time of travel	S	Stop watch	
Temperature		°F	Thermometer	
pH		pH Units	Test strip/Probe	
Ammonia		mg/L	Test strip	



## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

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

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Corrosion <input type="checkbox"/> Peeling Paint	Major failure at top of pipe. PennDOT notified.
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Suds <input type="checkbox"/> Colors <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely
 ☐ Potential (presence of two or more indicators)
 ☐ Suspect (one or more indicators with a severity of 3)
 ☐ Obvious

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow	<input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes	<input type="checkbox"/> No If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? ☐ No



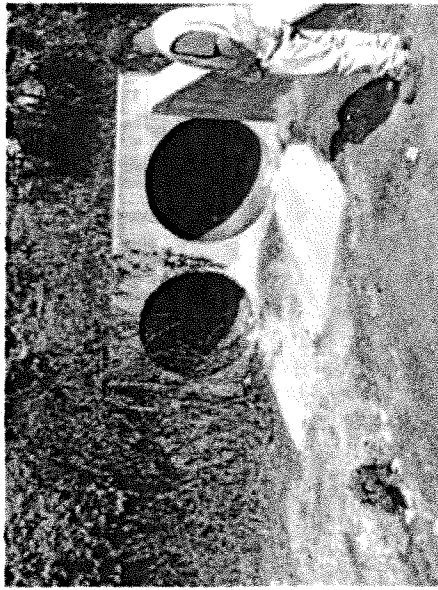
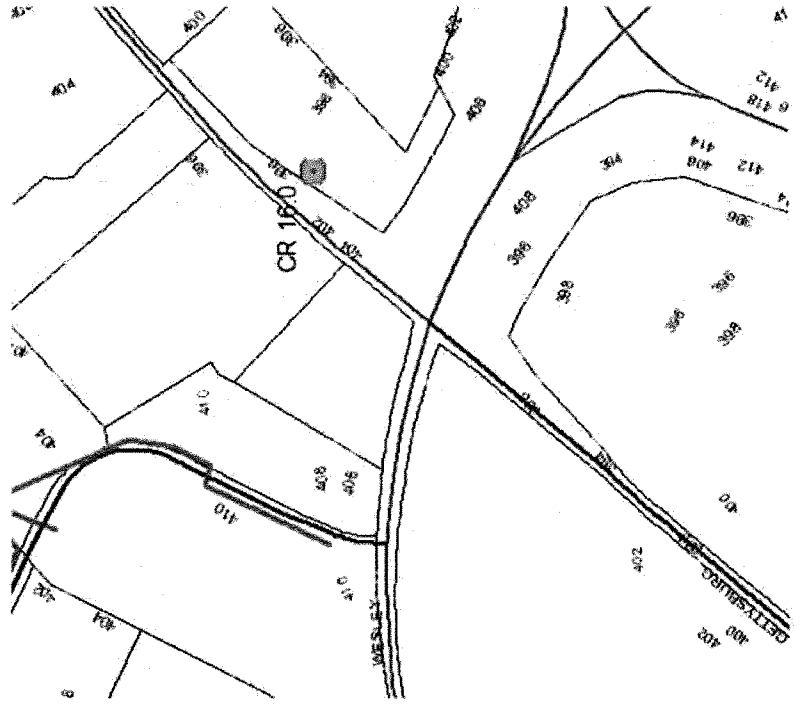


Photo:

Site:









## OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CRN 1.0	
Today's Date: 12/22/17		Time (Military): 16:04	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 34	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 2198065.85	Longitude: 326069.674	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes		Photo #s:	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
X - Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known): Behind 2005 Glenwood Rd.			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
X Closed Pipe	<input type="checkbox"/> RCP      X CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 18 inched  In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth:  Top Width:  Bottom Width:	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes      X No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER	RESULT	UNIT	EQUIPMENT	
<input type="checkbox"/> Flow #1	Volume	Liter	Bottle	
	Time to fill	Sec		
<input type="checkbox"/> Flow #2	Flow depth	In	Tape measure	
	Flow width	____' ____"	Tape measure	
	Measured length	____' ____"	Tape measure	
	Time of travel	S	Stop watch	
Temperature		°F	Thermometer	
pH		pH Units	Test strip/Probe	
Ammonia		mg/L	Test strip	



## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK IF Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
			<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Faint colors in sample bottle	<input type="checkbox"/> 2 - Clearly visible in sample bottle	<input type="checkbox"/> 3 - Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 - Slight cloudiness	<input type="checkbox"/> 2 - Cloudy	<input type="checkbox"/> 3 - Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 - Few/slight; origin not obvious	<input type="checkbox"/> 2 - Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 - Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No (If No, Skip to Section 6)

INDICATOR	CHECK IF Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

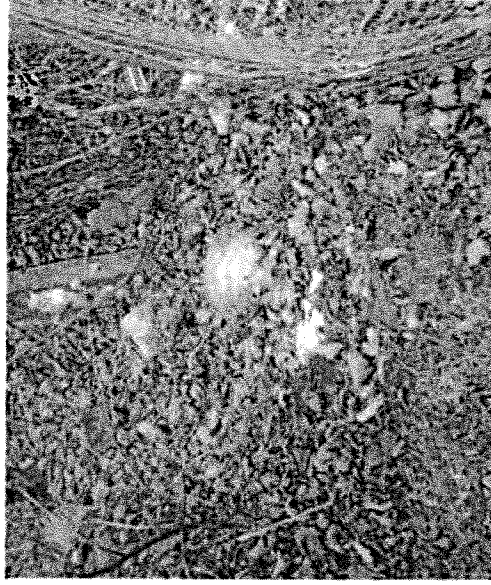
### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

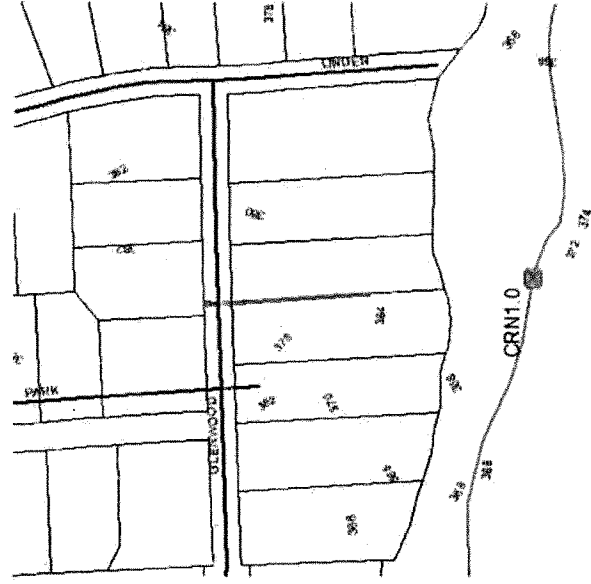
### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? No



Photo:



Site:









## OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CSR 1.0	
Today's Date: 2/3/17		Time (Military): 14:10	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 32	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 2200771.102	326029.267	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes		Photo #s: 1.25.17 -796	
Land Use in Drainage Area (Check all that apply): <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Industrial  <input type="checkbox"/> Ultra-Urban Residential  <input checked="" type="checkbox"/> Suburban Residential  <input type="checkbox"/> Commercial         </div> <div> <input type="checkbox"/> Open Space  <input type="checkbox"/> Institutional            Other: _____            Known Industries: _____         </div> </div>			
Notes (e.g., origin of outfall, if known): 30 inch discharge from Orchard Apts. At creek bank.			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED	
<input checked="" type="checkbox"/> Closed Pipe	<input checked="" type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <u>30 inched</u>	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
	<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth:  Top Width:  Bottom Width:	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)				
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>				
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip



## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

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

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely 
 ☐ Potential (presence of two or more indicators) 
 ☐ Suspect (one or more indicators with a severity of 3) 
 ☐ Obvious

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No                  If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

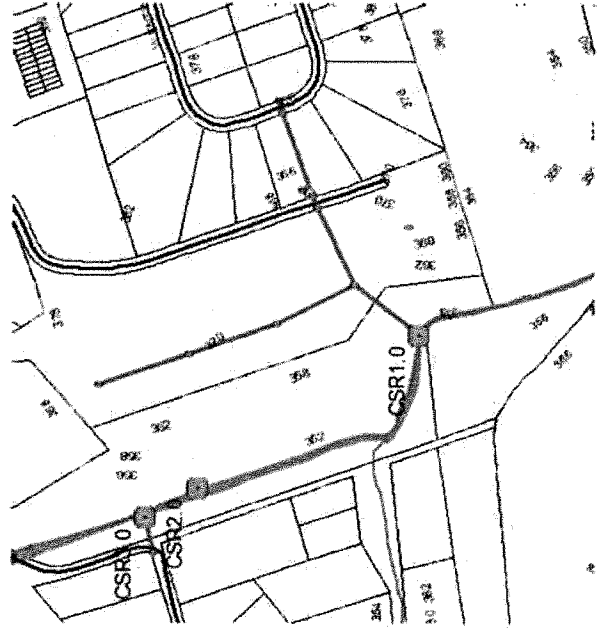
### Section 8: Any Non-Illlicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? No



**Photo:**



**Site:**









## OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CSR 2.0	
Today's Date: 2/3/17		Time (Military): 14:10	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 32	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 2203820.452	Longitude: 326075.462	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes		Photo #s: 0201171256	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial <input type="checkbox"/> Ultra-Urban Residential <input checked="" type="checkbox"/> Suburban Residential <input type="checkbox"/> Commercial		<input type="checkbox"/> Open Space <input type="checkbox"/> Institutional Other: _____ Known Industries: _____	
Notes (e.g., origin of outfall, if known): Mill race from 2139 Orchard Rd.			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input type="checkbox"/> Circular <input type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____ <input type="checkbox"/> Other: _____	Diameter/Dimensions: _____ _____	In Water: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input checked="" type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth: <u>2</u> Top Width: <u>10</u> Bottom Width: <u>4.5</u>	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip



## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

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

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

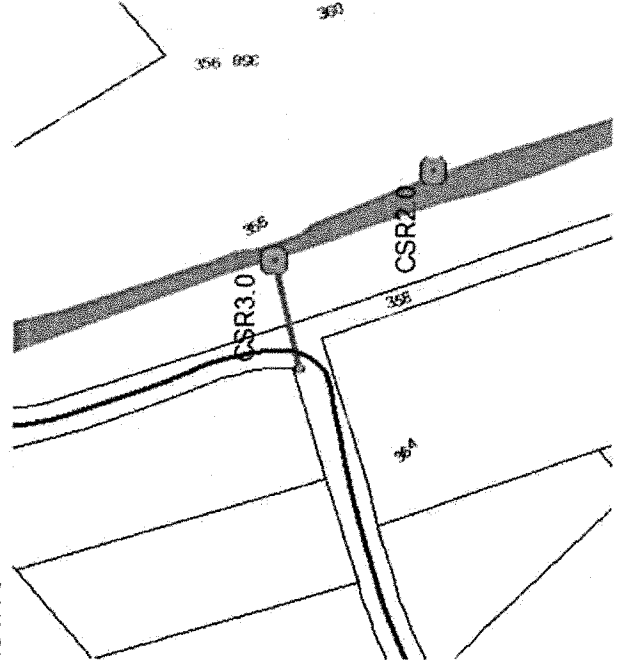
### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? No



Photo:



Site









## OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CSR3.0	
Today's Date: 2/3/17		Time (Military): 13:13	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 25	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 2200397.86	Longitude: 326602.679	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes		Photo #s: 1191	
Land Use in Drainage Area (Check all that apply): <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Industrial  <input type="checkbox"/> Ultra-Urban Residential  <input checked="" type="checkbox"/> Suburban Residential  <input type="checkbox"/> Commercial         </div> <div> <input type="checkbox"/> Open Space  <input type="checkbox"/> Institutional            Other: _____            Known Industries: _____         </div> </div>			
Notes (e.g., origin of outfall, if known): Spring Lake S/O NSRR			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input checked="" type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: _____ 15 inch _____  In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth:  Top Width:  Bottom Width:	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip



## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

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

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Corrosion <input type="checkbox"/> Peeling Paint	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

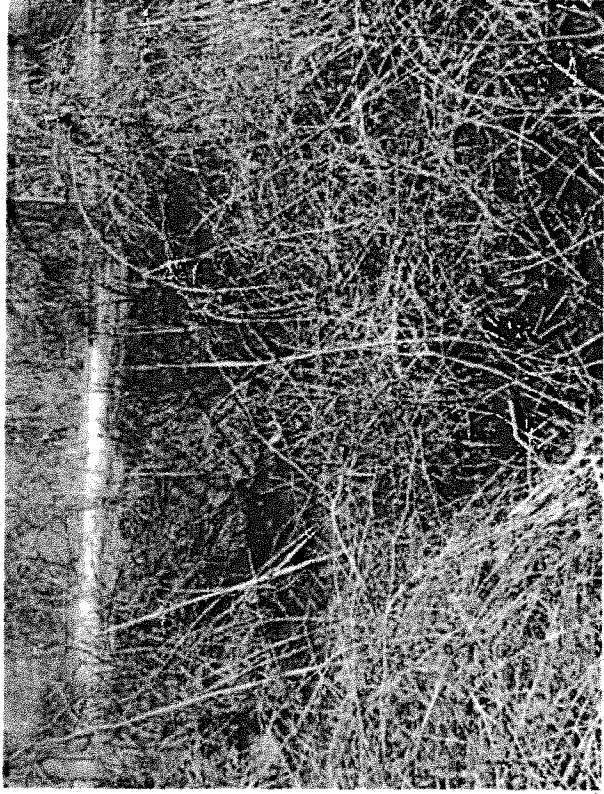
### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

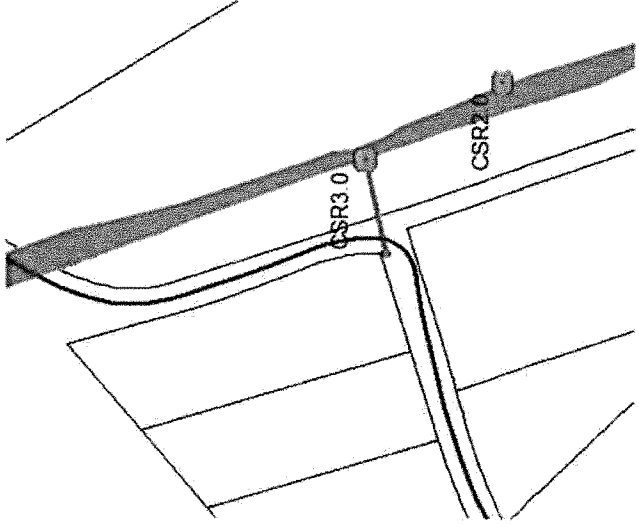
### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? No



**Photo:**



**Site:**









## OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CSR4.0	
Today's Date: 2/24/17		Time (Military): 10:50	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 67	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 2200223.985	Longitude: 327126.606	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes		Photo #s:	
Land Use in Drainage Area (Check all that apply): <div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"><input type="checkbox"/> Industrial</div> <div style="width: 50%;"><input type="checkbox"/> Open Space</div> <div style="width: 50%;"><input type="checkbox"/> Ultra-Urban Residential</div> <div style="width: 50%;"><input type="checkbox"/> Institutional</div> <div style="width: 50%;"><input checked="" type="checkbox"/> Suburban Residential</div> <div style="width: 50%;">Other: _____</div> <div style="width: 50%;"><input type="checkbox"/> Commercial</div> <div style="width: 50%;">Known Industries: _____</div> </div>			
Notes (e.g., origin of outfall, if known): Cedar Springs Run Park			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input checked="" type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input checked="" type="checkbox"/> Single <input type="checkbox"/> Elliptical <input type="checkbox"/> Double <input type="checkbox"/> Box <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: <u>18 inch</u>	In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth:  Top Width:  Bottom Width:	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER	RESULT	UNIT	EQUIPMENT	
<input type="checkbox"/> Flow #1	Volume	Liter	Bottle	
	Time to fill	Sec		
<input type="checkbox"/> Flow #2	Flow depth	In	Tape measure	
	Flow width	Ft, In	Tape measure	
	Measured length	Ft, In	Tape measure	
	Time of travel	S	Stop watch	
Temperature		°F	Thermometer	
pH		pH Units	Test strip/Probe	
Ammonia		mg/L	Test strip	



## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK IF Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
			<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Sulfide <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Green <input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Gray <input type="checkbox"/> Red <input type="checkbox"/> Yellow <input type="checkbox"/> Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Suds <input type="checkbox"/> Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No (If No, Skip to Section 6)

INDICATOR	CHECK IF Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Corrosion <input type="checkbox"/> Peeling Paint	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely  
 ☐ Potential (presence of two or more indicators)  
 ☐ Suspect (one or more indicators with a severity of 3)  
 ☐ Obvious

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow	<input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
If Yes, type:		<input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

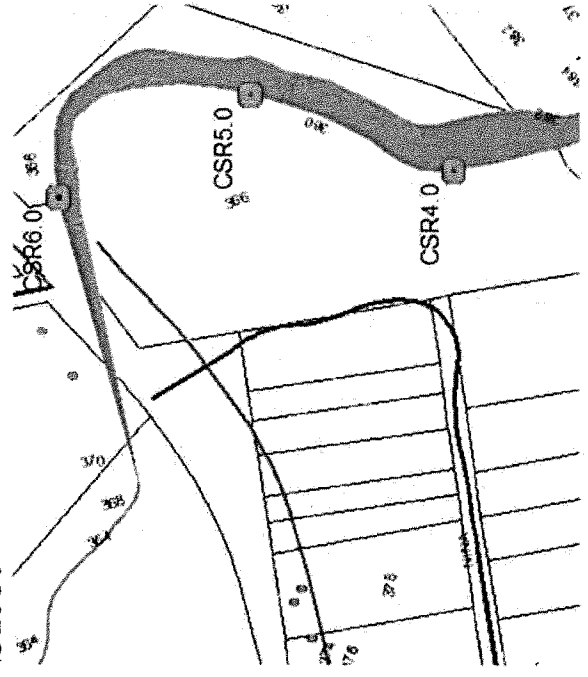
### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? No





Photo:

Site:









## OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CSR5.0	
Today's Date: 2/24/17		Time (Military): 11:00	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 67	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 2200290.469	Longitude: 327308.911	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes		Photo #s:	
Land Use in Drainage Area (Check all that apply): <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Industrial  <input type="checkbox"/> Ultra-Urban Residential  <input checked="" type="checkbox"/> Suburban Residential  <input type="checkbox"/> Commercial         </div> <div> <input type="checkbox"/> Open Space  <input type="checkbox"/> Institutional            Other: _____            Known Industries: _____         </div> </div>			
Notes (e.g., origin of outfall, if known): Cedar Springs Run Park			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP <input type="checkbox"/> PVC <input checked="" type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 18 inch _____  In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____	Depth:  Top Width:  Bottom Width:	
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER	RESULT	UNIT	EQUIPMENT	
<input type="checkbox"/> Flow #1	Volume	Liter	Bottle	
	Time to fill	Sec		
<input type="checkbox"/> Flow #2	Flow depth	In	Tape measure	
	Flow width	_____, _____"	Tape measure	
	Measured length	_____, _____"	Tape measure	
	Time of travel		Stop watch	
Temperature		°F	Thermometer	
pH		pH Units	Test strip/Probe	
Ammonia		mg/L	Test strip	



## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

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

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? No



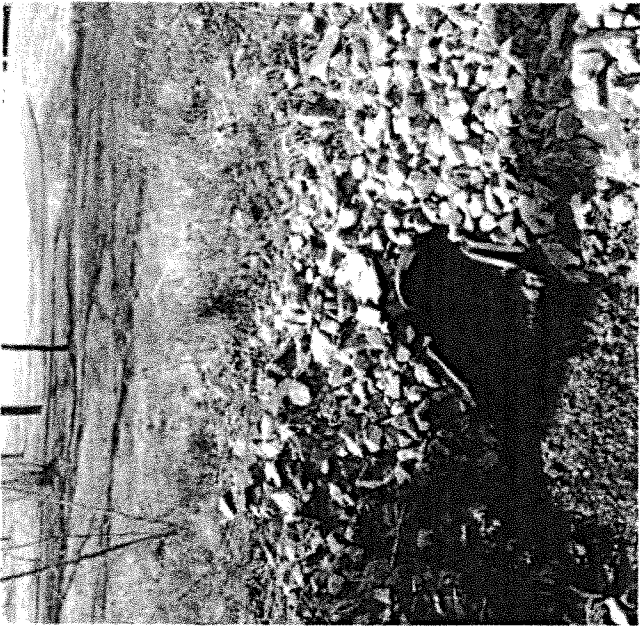
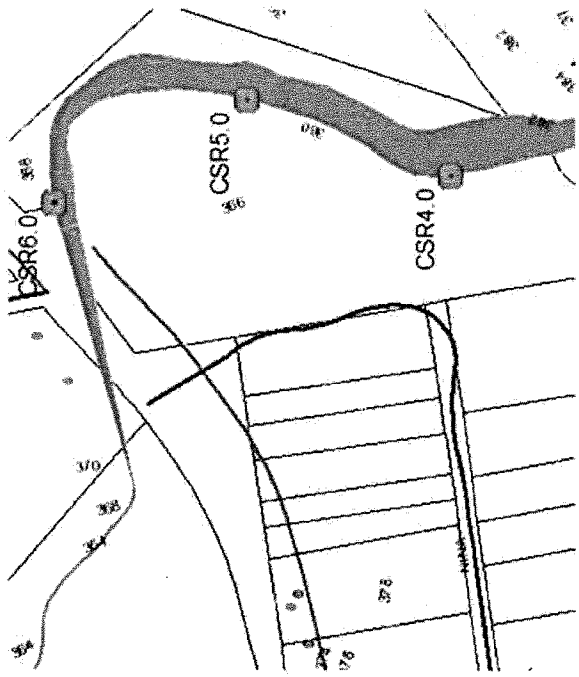


Photo:

Site:









## OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CSR6.0	
Today's Date: 2/24/17		Time (Military): 11:05	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 67	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 2200200.799	Longitude: 327477.4	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes		Photo #s:	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial		<input type="checkbox"/> Open Space	
<input type="checkbox"/> Ultra-Urban Residential		<input type="checkbox"/> Institutional	
X - Suburban Residential		Other: _____	
<input type="checkbox"/> Commercial		Known Industries: _____	
Notes (e.g., origin of outfall, if known):			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
X Closed Pipe	<input type="checkbox"/> RCP <input type="checkbox"/> CMP	X Circular	X Single	In Water: <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Fully
	<input type="checkbox"/> PVC      X HDPE	<input type="checkbox"/> Elliptical	<input type="checkbox"/> Double	
	<input type="checkbox"/> Steel	<input type="checkbox"/> Box	<input type="checkbox"/> Triple	
	<input type="checkbox"/> Other: _____	<input type="checkbox"/> Other: _____	<input type="checkbox"/> Other: _____	
<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete	<input type="checkbox"/> Trapezoid  <input type="checkbox"/> Parabolic  <input type="checkbox"/> Other: _____	Depth:	
	<input type="checkbox"/> Earthen		Top Width:	
	<input type="checkbox"/> rip-rap		Bottom Width:	
	<input type="checkbox"/> Other: _____			
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	X Yes      No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle      X Moderate <input type="checkbox"/> Substantial			

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER	RESULT	UNIT	EQUIPMENT	
<input type="checkbox"/> Flow #1	Volume	Liter	Bottle	
	Time to fill	Sec		
<input type="checkbox"/> Flow #2	Flow depth	In	Tape measure	
	Flow width	____' ____"	Tape measure	
	Measured length	____' ____"	Tape measure	
	Time of travel		Stop watch	
Temperature		°F	Thermometer	
pH		pH Units	Test strip/Probe	
Ammonia		mg/L	Test strip	



## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No *(If No, Skip to Section 5)*

INDICATOR	CHECK If Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint	<input type="checkbox"/> 2 – Easily detected	<input type="checkbox"/> 3 – Noticeable from a distance
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Faint colors in sample bottle	<input type="checkbox"/> 2 – Clearly visible in sample bottle	<input type="checkbox"/> 3 – Clearly visible in outfall flow
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/> 1 – Slight cloudiness	<input type="checkbox"/> 2 – Cloudy	<input type="checkbox"/> 3 – Opaque
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/> 1 – Few/slight, origin not obvious	<input type="checkbox"/> 2 – Some; indications of origin (e.g., possible suds or oil sheen)	<input type="checkbox"/> 3 – Some; origin clear (e.g., obvious oil sheen, suds, or floating sanitary materials)

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☐ Yes ☐ No *(If No, Skip to Section 6)*

INDICATOR	CHECK If Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

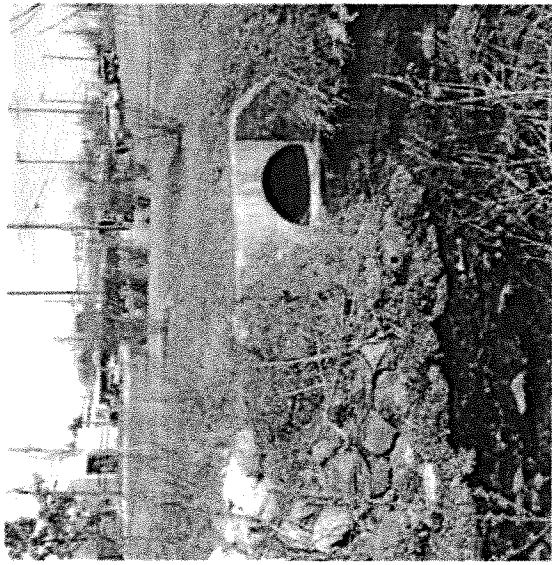
☒ Unlikely  
 ☐ Potential (presence of two or more indicators)  
 ☐ Suspect (one or more indicators with a severity of 3)  
 ☐ Obvious

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No      If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

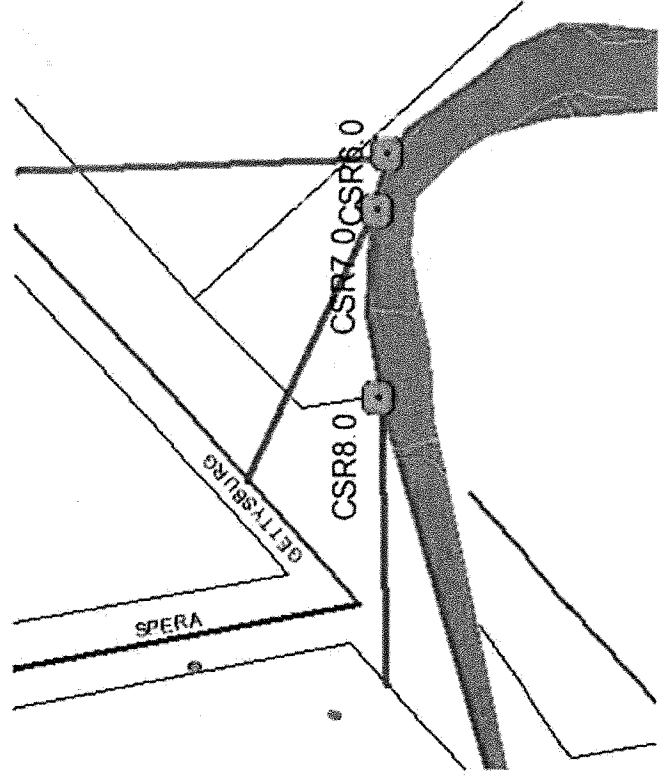
### Section 8: Any Non-Illlicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? No





**Photo:**

**Site:**









## OUTFALL RECONNAISSANCE INVENTORY/ SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CSR7.0	
Today's Date: 2/24/17		Time (Military): 11:05	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 67	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 2200200.799	Longitude: 327477.4	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes		Photo #s:	
Land Use in Drainage Area (Check all that apply): <div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Industrial  <input type="checkbox"/> Ultra-Urban Residential  <input checked="" type="checkbox"/> Suburban Residential  <input type="checkbox"/> Commercial         </div> <div> <input type="checkbox"/> Open Space  <input type="checkbox"/> Institutional          Other: _____          Known Industries: _____         </div> </div>			
Notes (e.g., origin of outfall, if known):			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED	
<input checked="" type="checkbox"/> Closed Pipe	<input type="checkbox"/> RCP <input checked="" type="checkbox"/> CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 36 _____  Depth: Top Width: Bottom Width:	In Water: <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input type="checkbox"/> No <input checked="" type="checkbox"/> Partially <input type="checkbox"/> Fully
	<input type="checkbox"/> Open drainage	<input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____	<input type="checkbox"/> Trapezoid <input type="checkbox"/> Parabolic <input type="checkbox"/> Other: _____		
<input type="checkbox"/> In-Stream	(applicable when collecting samples)				
Flow Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If No, Skip to Section 5</i>				
Flow Description (If present)	<input type="checkbox"/> Trickle <input checked="" type="checkbox"/> Moderate <input type="checkbox"/> Substantial				

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER	RESULT	UNIT	EQUIPMENT	
<input type="checkbox"/> Flow #1	Volume	Liter	Bottle	
	Time to fill	Sec		
<input type="checkbox"/> Flow #2	Flow depth	In	Tape measure	
	Flow width	____' ____"	Tape measure	
	Measured length	____' ____"	Tape measure	
	Time of travel		Stop watch	
Temperature		°F	Thermometer	
pH		pH Units	Test strip/Probe	
Ammonia		mg/L	Test strip	



## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☒ No (If No, Skip to Section 5)

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

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? ☒ Yes ☐ No (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input checked="" type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited <input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	Vines cover pipe opening but do not impede flows.
Poor pool quality	<input type="checkbox"/>		
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

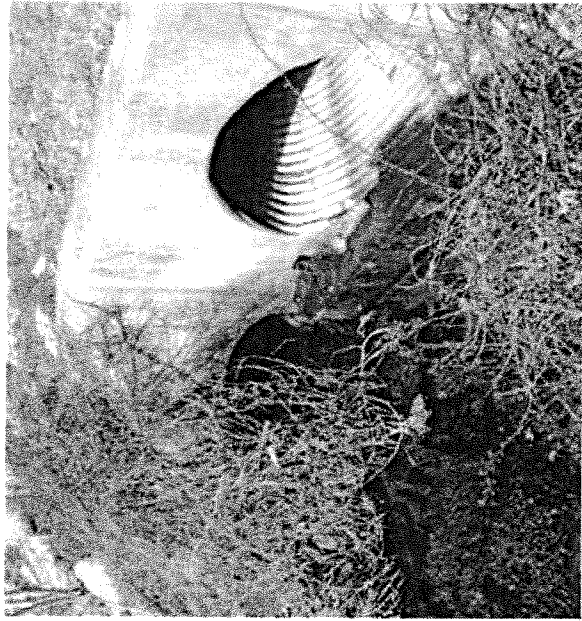
☒ Unlikely ☐ Potential (presence of two or more indicators) ☐ Suspect (one or more indicators with a severity of 3) ☐ Obvious

### Section 7: Data Collection

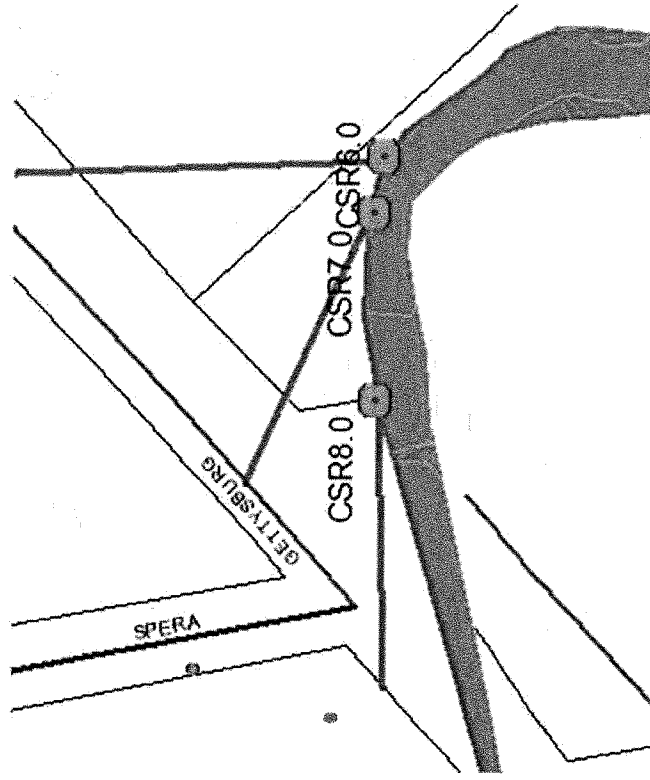
1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No If Yes, type: <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? No





**Photo:**



**Site:**







## OUTFALL RECONNAISSANCE INVENTORY/SAMPLE COLLECTION FIELD SHEET

### Section 1: Background Data

Subwatershed: Cedar Run		Outfall ID: CSR8.0	
Today's Date: 2/24/17		Time (Military): 11:20	
Investigators: Lower Allen Township		Form completed by: Ray Allen	
Temperature (°F): 68	Rainfall (in.): Last 24 hours: 0 Last 48 hours: 0		
Latitude: 2200199.718	Longitude: 327477.072	GPS Unit: N/A	GPS LMK #: N/A
Camera: Yes		Photo #s:	
Land Use in Drainage Area (Check all that apply):			
<input type="checkbox"/> Industrial <input type="checkbox"/> Ultra-Urban Residential <input checked="" type="checkbox"/> Suburban Residential <input type="checkbox"/> Commercial		<input type="checkbox"/> Open Space <input type="checkbox"/> Institutional Other: _____ Known Industries: _____	
Notes (e.g., origin of outfall, if known):			

### Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE	DIMENSIONS (IN.)	SUBMERGED
X Closed Pipe	<input type="checkbox"/> RCP    X CMP <input type="checkbox"/> PVC <input type="checkbox"/> HDPE <input type="checkbox"/> Steel <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Circular <input type="checkbox"/> Elliptical <input type="checkbox"/> Box <input type="checkbox"/> Other: _____	<input checked="" type="checkbox"/> Single <input type="checkbox"/> Double <input type="checkbox"/> Triple <input type="checkbox"/> Other: _____	Diameter/Dimensions: 36 _____  In Water: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully  With Sediment: <input checked="" type="checkbox"/> No <input type="checkbox"/> Partially <input type="checkbox"/> Fully
	<input type="checkbox"/> Open drainage <input type="checkbox"/> Concrete <input type="checkbox"/> Earthen <input type="checkbox"/> rip-rap <input type="checkbox"/> Other: _____			
<input type="checkbox"/> In-Stream	(applicable when collecting samples)			
Flow Present?	<input type="checkbox"/> Yes    X    No <i>If No, Skip to Section 5</i>			
Flow Description (If present)	<input type="checkbox"/> Trickle <input type="checkbox"/> Moderate <input type="checkbox"/> Substantial			

### Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING OUTFALLS				
PARAMETER		RESULT	UNIT	EQUIPMENT
<input type="checkbox"/> Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
<input type="checkbox"/> Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			°F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip



## Outfall Reconnaissance Inventory Field Sheet

### Section 4: Physical Indicators for Flowing Outfalls Only

Are Any Physical Indicators Present in the flow? ☐ Yes ☐ No (If No, Skip to Section 5)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
			<input type="checkbox"/> 1 - Faint	<input type="checkbox"/> 2 - Easily detected	<input type="checkbox"/> 3 - Noticeable from a distance
Odor	<input type="checkbox"/>	<input type="checkbox"/> Sewage <input type="checkbox"/> Rancid/sour <input type="checkbox"/> Petroleum/gas <input type="checkbox"/> Sulfide <input type="checkbox"/> Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Color	<input type="checkbox"/>	<input type="checkbox"/> Clear <input type="checkbox"/> Brown <input type="checkbox"/> Gray <input type="checkbox"/> Yellow <input type="checkbox"/> Green <input type="checkbox"/> Orange <input type="checkbox"/> Red <input type="checkbox"/> Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Turbidity	<input type="checkbox"/>	See severity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Floatables -Does Not Include Trash!!	<input type="checkbox"/>	<input type="checkbox"/> Sewage (Toilet Paper, etc.) <input type="checkbox"/> Suds <input type="checkbox"/> Petroleum (oil sheen) <input type="checkbox"/> Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### Section 5: Physical Indicators for Both Flowing and Non-Flowing Outfalls

Are physical indicators that are not related to flow present? Yes ☐ No ☐ (If No, Skip to Section 6)

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	<input type="checkbox"/>	<input type="checkbox"/> Spalling, Cracking or Chipping <input type="checkbox"/> Peeling Paint <input type="checkbox"/> Corrosion	
Deposits/Stains	<input type="checkbox"/>	<input type="checkbox"/> Oily <input type="checkbox"/> Flow Line <input type="checkbox"/> Paint <input type="checkbox"/> Other:	
Abnormal Vegetation	<input type="checkbox"/>	<input type="checkbox"/> Excessive <input type="checkbox"/> Inhibited	Vines cover pipe opening but do not impede flows.
Poor pool quality	<input type="checkbox"/>	<input type="checkbox"/> Odors <input type="checkbox"/> Colors <input type="checkbox"/> Floatables <input type="checkbox"/> Oil Sheen <input type="checkbox"/> Suds <input type="checkbox"/> Excessive Algae <input type="checkbox"/> Other:	
Pipe benthic growth	<input type="checkbox"/>	<input type="checkbox"/> Brown <input type="checkbox"/> Orange <input type="checkbox"/> Green <input type="checkbox"/> Other:	

### Section 6: Overall Outfall Characterization

<input checked="" type="checkbox"/> Unlikely <input type="checkbox"/> Potential (presence of two or more indicators) <input type="checkbox"/> Suspect (one or more indicators with a severity of 3) <input type="checkbox"/> Obvious
--

### Section 7: Data Collection

1. Sample for the lab?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
2. If yes, collected from:	<input type="checkbox"/> Flow <input type="checkbox"/> Pool
3. Intermittent flow trap set?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> OBM <input type="checkbox"/> Caulk dam

### Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)? No











# ATTACHMENT # 10

INVENTORY OF INSTALLED BMP'S







## Property Information

## BMP Inspection Info.

PIN	Owner	SITUS	Mailed	Returned
13-09-0545-002-EX	UNITED METHODIST HOME	5120 SIMPSON FERRY ROAD	12/22/2016	1/30/2017
13-09-0545-006	ASBURY ATLANTIC INC	325 Wesley Drive	12/22/2016	
13-09-0545-006	ASBURY ATLANTIC INC	5225 WILSON LANE		
13-09-0547-006	PRCC LIMITED PARTNERSHIP	3500 CAPITAL CITY MALL DRIVE	12/22/2016	
13-09-0547-007	PA INDUSTRIAL SCHOOL	2500 LISBURN ROAD	12/22/2016	
13-09-0547-007	PA INDUSTRIAL SCHOOL	2500 LISBURN ROAD	12/22/2016	
13-09-0547-007	PA INDUSTRIAL SCHOOL	2500 LISBURN ROAD	12/22/2016	
13-09-0547-009	LOWER ALLEN TOWNSHIP	2750 YETTER COURT	12/22/2016	
13-10-0256-011 & 13-10-0256-31	ARCONA FEE OWNER LLC	ARCONA PHASE 2, 2.1 & 2.2 - STONE GATE VILLAGE	12/22/2016	1/13/2017
13-10-0256-015C	HIGH PROPERTIES, HIGH GEN CORP	RITTER ROAD	12/22/2016	
13-10-0256-015C	HIGH PROPERTIES, HIGH GEN CORP	4915 RITTER ROAD	12/22/2016	
13-10-0256-015C	MECHANICSBURG 1LP	4925 RITTER ROAD		
13-10-0256-030	YELLDAN LIMITED A PENNSYLVANIA	4510 WESTPORT DRIVE	12/22/2016	
13-10-0256-037	LINLO PROPERTIES III LP	1215 MANOIR DRIVE	12/22/2016	1/11/2017
13-10-0256-039	VFW POST 7530	4545 WESTPORT DRIVE	12/22/2016	1/3/2017
13-10-0256-042	4530 LENA DRIVE, LP	4530 LENA DRIVE	12/22/2016	
13-10-0256-044	HIGH HOTELS, LTD	4915 RITTER ROAD	12/22/2016	1/30/2017
13-10-0256-055	CHEREWKA, MICHAEL C	4557 MANOR DRIVE – Basin	12/22/2016	
13-10-0256-057	TIMOTHY JONES	4549 MANOR DIRVE	12/22/2016	
13-10-0256-058	WALTERS-POFF, DUSTIN	4513 WOODS WAY-Basin	12/22/2016	
13-10-0256-066	MILLER, DAVID E & RACHAEL L	4518 WODS WAY – Basin	12/22/2016	
13-10-0256-068	PRICE, DEREK D & CHRISTINA M	4526 WOODS WAY – Basin	12/22/2016	
13-10-0256-068	DEREK D. PRICE	4526 WOODS WAY	12/22/2016	1/17/2017
13-10-0256-087	LISBURN DEVCO LP	,MERIDIAN WAY-Basin	12/22/2016	
13-10-0256-090	LISBURN DEVCO LP	3009 MERIDIAN WAY		
13-10-0256-091	LISBURN DEVCO LP	2960 MERIDIAN WAY		
13-10-0256-092	CHARTER HOMES OF HIGHPOINT INC.	Highpoint Phases 1.1, 1.2, &1.4		1/13/2017
13-10-0258-004	SLATE HL MENNONITE CHURCH ETAL	1352 SLATE HILL ROAD	12/22/2016	
13-10-0258-007A	LOWER ALLEN TYP DEV AUTHORITY	YETTER COURT – Basin	12/22/2016	
13-10-0258-012	YETTER COURT ENTERPRISES LLC	2700 YETTER COURT	12/22/2016	1/5/2017
13-10-0258-012	VANTAGE FOODS PA/LP			
13-10-0258-015	CHRISTIAN LIFE ASSEMBLY OF GOD	2645 LISBURN ROAD	12/22/2016	1/24/2017



## Property Information

## BMP Inspection Info.

PIN	Owner	SITUS	Mailed	Returned
13-10-0258-034	MILLER, ALISON M	1510 THOMPSON LANE	12/22/2016	1/3/2017
13-10-0258-063	RUEL, JONATHAN R & JADE Z	1595 THOMPSON LANE	12/22/2016	1/19/2017
13-10-0258-073	TRIPLE CROWN CORPORATION	850 LISBURN ROAD	12/22/2016	
13-10-0260-005	EWING, CHARLES D	1425 SPANGLERS MILL ROAD	12/22/2016	
13-10-0260-010	PEIFFER, DAVID H	1841 BROOK VIEW DRIVE	12/22/2016	1/30/2017
13-11-0270-042	LFGC, INCORPORATED	3804 LISBURN ROAD	12/22/2016	1/17/2017
13-11-0270-044EX	LOWER ALLEN TOWNSHIP	4075 LISBURN ROAD	N/A	
13-11-0270-073	FEDORIW, CHRISTOPHER M	1403 WELLGATE LANE	12/22/2016	2/1/2017
13-11-0270-097	GASSNER, RUDOLF & GERTRUDE V	1712 LIBERTY COVE	12/22/2016	1/11/2017
13-11-0270-098	DUFFEY, HAROLD E II	1718 LIBERTY COVE	12/22/2016	1/25/2017
13-11-0270-099	JOHN J ELTRINGHAM	1724 LIBERTY COVE	12/22/2016	1/3/2017
13-11-0270-101	SOURBEER, CHARLES HOYER	1730 LIBERTY COVE	12/22/2016	1/17/2017
13-11-0270-103	RONALD & DIANE HODGE	1742 LIBERTY COVE	12/22/2016	1/19/2017
13-11-0270-104	JOHN R. & SHARI M. ZIMMERMAN	1748 LIBERTY COVE	12/22/2016	1/19/2017
13-11-0270-109	ROLAND, ROSALIE H	LIBERTY COVE – Basins	12/22/2016	
13-11-0270-112	KENNETH JAMES OYLER	1616 THOMPSON LANE		
13-22-0536-057	GRACE, WILLIAM R	1850 STATE ROAD	12/22/2016	2/21/2017
13-23-0545-416	WEST SHORE AREA SCHOOL	1301 CARLISLE ROAD	12/22/2016	
13-23-0545-416EX	WEST SHORE AREA SCHOOL DISTRICT	1301 CARLISLE ROAD	12/22/2016	
13-23-0547-261A	RHYKERD, BRIAN D &	1706 WYNDHAM ROAD	12/22/2016	
13-23-0549-003	MOUNTAINEER PROPERTIES LLC	2404 GETTYSBURG ROAD	12/22/2016	
13-23-0549-003	MOUNTAINEER PROPERTIES LLC	2404 GETTYSBURG RD.	12/22/2016	
13-23-0549-003A	KOSKAP PARTNERS	2500 GETTYSBURG ROAD		
13-23-0549-018A	LOWER ALLEN TOWNSHIP	2233 GETTYSBURG ROAD	N/A	
13-23-0549-019 EX	LOWER ALLEN TOWNSHIP	2239 GETTYSBURG ROAD	12/22/2016	
		2420 MASSACHUSETTS		
13-23-0549-107	MEISER, DAVID W & MICHELLE S	AVENUE	12/22/2016	1/13/2017
13-23-0549-109	ADA, HASSAN	2414 Massachusetts Ave.	12/22/2016	1/6/2017
13-23-0549-235	CROSSROADS HOUSING, LP		12/22/2016	
13-23-0549-239	ROBERT E. SMITH	2415 MASSACHUSETTS AVE.		
		2410 MASSACHUSETTS		
13-23-0549-242	SHANNON, DYLAN J	AVENUE	12/22/2016	2/6/2017
13-23-0551-028	LETORT GROUP LLC	3130 MORNINGSIDE DRIVE	12/22/2016	
13-23-0551-111	WALMART REAL ESTATE BUSINESS	3400 HARTZDALE DRIVE	12/22/2016	2/3/2017
13-23-0551-114A	KOSKAP PARTNERS	3300 HARTZDALE DRIVE	12/22/2016	



Property Information			BMP Inspection Info.	
PIN	Owner	SITUS	Mailed	Returned
13-23-0551-153	SISTI, RONALD D	21 SANTA MARIA AVENUE	12/22/2016	
13-23-0553-013	ROMAN CATHOLIC DIOCESE OF TR	3601 SIMPSON FERRY ROAD	12/22/2016	
13-23-0553-026	GIOVAGNOLI, JOSEPH M & BECKY J	3702 GETTYSBURG ROAD	12/22/2016	
13-23-0553-060	KOLLAS, WILLIAM C & DIANNE L	3599 GETTYSBURG ROAD	12/22/2016	1/13/2017
13-23-0553-064	SHEKER FAMILY LIMITED	75 ZIMMERMAN DRIVE	12/22/2016	1/11/2017
13-23-0555-083	GRACE, WILLIAM R & ELIZABETH A	145 S LOCUST STREET	12/22/2016	2/21/2017
13-23-0559-082	BRIDGE STREET PARKING L.P.	5016 SIMPSON FERRY R OAD	12/22/2016	1/6/2017
13-23-0559-087	BONSALL, LANCE L	5030 ARTHUR AVENUE	12/22/2016	
13-23-0559-088	MOTEL SLEEPERS INC	5022 ARTHUR AVENUE	12/22/2016	
13-23-0559-089	ETTER INVESTMENTS, LLC	5026 ARTHUR AVENUE	12/22/2016	1/3/2017
13-23-0559-090	WERZYN, WILLIAM & PATRICIA JR (Kulp?)	5024 SIMPSON FERRY ROAD	12/22/2016	
13-24-0020-052	VERTICAL PROPERTIES	1304 SLATE HILL ROAD		1/17/2017
13-24-0795-001A	CENTURY PARK INVESTMENTS LP	960 CENTURY DRIVE	12/22/2016	
13-24-0795-003	OLD GETTYSBURG ASSOCS IV LP	4712 GETTYSBURG ROAD	12/22/2016	1/19/2017
13-24-0795-014	DUPERT, FRED H JR	758 UPLAND STREET	12/22/2016	
13-24-0795-047	ACKERMAN, EDWARD P	812 BELMONT STREET	12/22/2016	
13-24-0795-137	OLD GETTYSBURG ASSOCS IV LP	4532 GETTYSBURG ROAD	12/22/2016	1/19/2017
13-24-0795-165	CENTURY ROAD ASSOCIATES LLC	910 CENTURY DRIVE	12/22/2016	
13-24-0795-168	OLD GETTYSBURG ASSOCIATES V, L.P.	4732 GETTYSBURG ROAD	12/22/2016	1/19/2017
13-24-0795-170	950 WOODLAND INVESTMENTS LLC	950 WOODLAND STREET	12/22/2016	1/19/2017
13-24-0795-174A	CAPITAL AREA R T ASSOCIATES	880 CENTURY DRIVE	12/22/2016	
13-24-0795-176	ELLIS, SHAUN	900 CENTURY DRIVE	12/22/2016	
13-24-0795-181	CUMBERLAND PERRY HOUSING	801 UPLAND STREET	12/22/2016	
13-24-0795-181	UCP OF CENTRAL PA			
13-24-0797-218	CHRIST COMMUNITY CHURCH OF	1201 SLATE HILL ROAD	12/22/2016	
13-24-0799-176B	GOODWILL KEYSTONE AREA	3825 HARTZDALE DR.		
13-24-0799-236	GRACE, ELIZABETH A	3608 HARTZDALE DRIVE	12/22/2016	2/21/2017
13-24-0799-256	YCH PROPERTIES LP	3811 HARTZDALE DRIVE	12/22/2016	
13-24-0801-002	GRACE, WILLIAM R	3605 R HARTZDALE DRIVE		
13-24-0803-018	TRIPLE CROWN CORPORATION	850 Lisburn Road	12/22/2016	
13-24-0805-051	KAERCHER, JESTIN L	8 CEDAR CLIFF DRIVE	12/22/2016	
13-25-0008-587	BHH PARTNERS	YARMOUTH LANE-Basins	12/22/2016	
13-25-0020-052B	PROGRESSIVE CASUALTY INS CO	3950 HARTZDALE DRIVE	12/22/2016	
13-25-0020-054A	SKYLINE STEEL LLC	1250 SAIINT JOHNS ROAD	12/22/2016	1/31/2017
13-25-0020-057	1401 SLATE HILL ROAD LLC	1401 SLATE HILL ROAD	12/22/2016	
13-25-0024-006	SHANER SELECT SERVICES HOTELS	4921 GETTYSBURG ROAD	12/22/2016	
13-25-0024-013	CHON, SUN YI & CHANG MUN	4943 GETTYSBURG ROAD	12/22/2016	
13-10-0256-011	ARCONA FEE OWNER LLC			
13-26-0247-106	BRUNO, DONALD P JR	4913 WOODBOX LANE		
13-26-0247-106	LANNES, ANTONIO T & SOFIA H	4913 WOODBOX LANE	12/22/2016	
13-26-0247-107	SONNON, HARVEY R JR	4975 RAVENWOOD ROAD	12/22/2016	1/5/2017
13-26-0247-111	THAU, DANIEL T	4902 WHITLOCK LANE	12/22/2016	
13-28-2430-111	KYLE C. SNYDER	1504 WOODCREEK Dr.	12/22/2016	1/11/2017
13-31-2134-059	MACINTIRE, KYLE	1716 MAIN STREET	12/22/2016	
13-31-2136-001A	SHEAFFER, BILLY B	1435 MAIN STREET	12/22/2016	1/23/2017
13-31-2136-026	BOOHER, STEVEN R & BARBARA A	1504 MAIN ST LISBURN	12/22/2016	



13-31-2136-114	BARTLETT, THOMAS R & TIFFANY M	4118 WILLOW BEND ROAD	12/22/2016
13-31-2136-132	GEARHART, ANDREW M & ABBEY R	4165 BIRCHWOOD LANE	12/22/2016

## **DESCRIPTION OF BMP OPERATION AND MAINTENANCE PROCEEDURES**

### **INITIAL APPROVAL**

In accordance with the requirements of the newly approved Stormwater Management Ordinance (SWMO), all newly installed Stormwater Best Management Practices (BMP's) must have a recorded Operation and Maintenance (O & M) agreement. These agreements are held by the Township and are placed into a database for ongoing monitoring. In accordance with the SWMO, the ongoing inspection and maintenance of the installed BMP's is expected to be done by the Owner, at their expense.

### **ANNUAL ACTIVITIES**

Every year the Township sends a letter out to all the BMP permit holders requesting that they inspect their installed BMP's, along with the required forms. The Owners then return their forms to the Township to document that the inspections were performed. This information is then attached to the annual MS-4 report.

The Township also has a program to perform the required inspection work upon the request of the Owner and at their expense.



# ATTACHMENT # 11

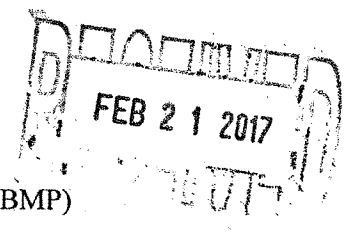
BMP INSPECTION REPORTS







**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit



Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> <div style="font-size: 1.2em; font-family: cursive;">William R Grace</div>	<u>Property Address</u> <div style="font-size: 1.2em; font-family: cursive;">1850 STATE RD Camp Hill, PA BUSINESS STORAGE</div>
<u>Tax Parcel ID No.</u> <div style="font-size: 1.2em; font-family: cursive;">13-22-0536-057</div>	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>  

Date of Inspection: \_\_\_\_\_

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

Submitted by: \_\_\_\_\_

William R Grace

  
Name (print)

[Signature]

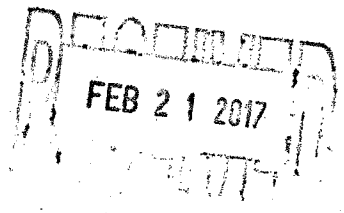
  
Signature

2-16-17

  
Date



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit



Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> Elizabeth A. Grace	<u>Property Address</u> 3608 Nantzdale Dr. Camp Hill
<u>Tax Parcel ID No.</u> 13-24-0799-236	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: \_\_\_\_\_

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

Submitted by:

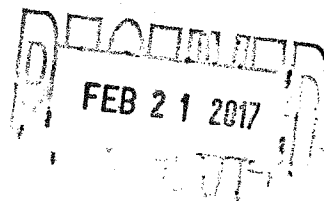
Elizabeth A. Grace  
Name (print)

Signature

2-16-17  
Date



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit



Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> Wm & Elizabeth Grace	<u>Property Address</u> 145 LOCUST Camp Hill, Pa
<u>Tax Parcel ID No.</u> 13-23-0555-083	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u> VACANT LOT

Date of Inspection: \_\_\_\_\_

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas		
Integrity and condition of vegetation		
Collection, storage and release of stormwater in accordance with the facility design		
Sediment accumulation		
Safety		

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility		
Collection, storage and release of stormwater in accordance with the facility design		
Sediment accumulation		
Safety		

Submitted by:

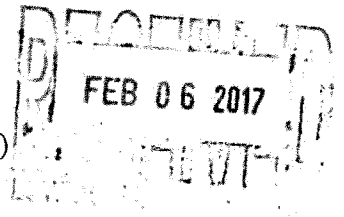
William R Grace  
Name (print)

[Signature]  
Signature

2-16-17  
Date



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit



Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> Dylan Shanahan	<u>Property Address</u> 2410 Massachusetts Ave Camp Hill PA 17011
<u>Tax Parcel ID No.</u> 13-23-0544-242	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: 1/27/17

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	N/A	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

Submitted by:

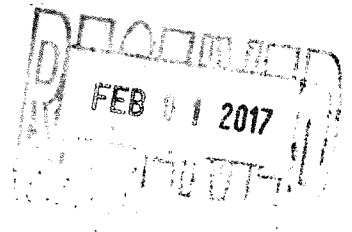
Dylan Shanahan  
Name (print)

Signature

1/27/17  
Date



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit



Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> <i>Chris Fedorow</i>	<u>Property Address</u> <i>1405 Wellgate Lane Mechanicsburg, Pa 17055</i>
<u>Tax Parcel ID No.</u> <i>13-11-0270-013</i>	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u> <i>Allen Estates</i>

Date of Inspection: 1/29/17  
Inspection of Open Basins:

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	<i>Yes</i>	
Stability of embankments and other soil areas	<i>Yes</i>	
Integrity and condition of vegetation	<i>Yes</i>	
Collection, storage and release of stormwater in accordance with the facility design	<i>Yes</i>	
Sediment accumulation	<i>Yes</i>	
Safety	<i>Yes</i>	

Inspection of Subsurface Storage/Infiltration Facilities:

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	<i>Yes</i>	
Stability of soil over and adjacent to the facility	<i>Yes</i>	
Collection, storage and release of stormwater in accordance with the facility design	<i>Yes</i>	
Sediment accumulation	<i>Yes</i>	
Safety	<i>Yes</i>	

Submitted by:

*Chris Fedorow*  
Name (print)

*Chris Fedorow*  
Signature

1/29/17  
Date



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit

JAN 31 2017

Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

Property Owner Name(s) <b>SKYLINE STEEL</b>	Property Address <b>1250 St. John's Rd, Camp Hill, PA 17011</b>
Tax Parcel ID No. <b>13-25-0020-054A</b>	Subdivision/Land Development/Drainage Plan No. (if known)

Date of Inspection: 1-25-17

**Inspection of Open Basins:**


	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

Submitted by:

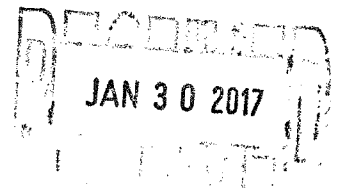
ROBERT BOGER  
Name (print)

  
Signature

1-25-17  
Date



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit



Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

Property Owner Name(s) <u>High Hotels LTD.</u>	Property Address <u>4915 RETAIL ROAD Mech PA 17055</u>
Township <u>SO: TOWNSHIP</u>	Subdivision/Land Development/Drainage Plan No. (if known)
Tax Parcel ID No. <u>13-10-0256-044</u>	

Date of Inspection: 1/23/17

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	YES	NO
Stability of embankments and other soil areas	YES	NO
Integrity and condition of vegetation	YES	NO
Collection, storage and release of stormwater in accordance with the facility design	YES	NO
Sediment accumulation	YES	NO
Safety	YES	NO

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	YES	NO
Stability of soil over and adjacent to the facility	YES	NO
Collection, storage and release of stormwater in accordance with the facility design	YES	NO
Sediment accumulation	YES	NO
Safety	YES	NO

Submitted by:

Bred Wright  
Name (print)

(Signature)  
Signature

1/23/17  
Date



RECEIVED  
JAN 30 2017

**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit

Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> David Pfeiffer	<u>Property Address</u> 1841 Brookview DR
<u>Tax Parcel ID No.</u> 13-10-0260-010	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: Jan 27, 2017

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

Submitted by:

David Pfeiffer

Name (print)

[Signature]

Signature

Jan 27, 2017

Date



RECORDED  
JAN 30 2017

**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit

Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> UMHC	<u>Property Address</u> 5120 SIMPSON FERRY ROAD
<u>Tax Parcel ID No.</u> 13-09-0545-002 ex	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: 1-30-2017

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	yes	
Stability of embankments and other soil areas	yes	
Integrity and condition of vegetation	yes	
Collection, storage and release of stormwater in accordance with the facility design	yes	
Sediment accumulation	yes	
Safety	yes.	

**Inspection of Subsurface Storage/Infiltration Facilities:**

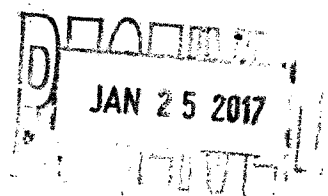
	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities		
Stability of soil over and adjacent to the facility		
Collection, storage and release of stormwater in accordance with the facility design		
Sediment accumulation		
Safety		

Submitted by:

RICHARD N. CHUBB JR.      [Signature]      1-30-2017  
Name (print)                                      Signature                                      Date



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit



Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> Harold & Constance Duffey	<u>Property Address</u> 1718 Liberty Cove Mechanicsburg Pa 17055
<u>Tax Parcel ID No.</u> 13-11-0270-098	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u> Liberty Pointe

Date of Inspection: 1/12/2017

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

Submitted by:

Harold E Duffey Jr  
Name (print)

Anthony W. Hoff  
Signature

1/12/2017  
Date

717-504-3072  
or  
717-404-6076



RECORDED  
JAN 24 2017  
17007

**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit

Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> Christian Life Assembly	<u>Property Address</u> 2645 Lisburn Rd
<u>Tax Parcel ID No.</u> 13-10-0258-015	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: 1/23/17  
Inspection of Open Basins:

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	Large tree removal to be completed by spring
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	<input checked="" type="checkbox"/> Y	
Safety	Y	

Inspection of Subsurface Storage/Infiltration Facilities:

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities		
Stability of soil over and adjacent to the facility		
Collection, storage and release of stormwater in accordance with the facility design		
Sediment accumulation		
Safety		

Submitted by:

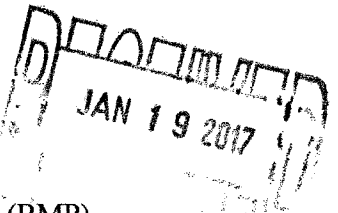
Gary Frutiger  
Name (print)

[Signature]  
Signature

1/23/17  
Date



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit



Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> Ronald C and Diane C Hodge	<u>Property Address</u> 1742 Liberty Cove Mechanicsburg PA 17055
<u>Tax Parcel ID No.</u> #13-11-0270-103	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: 1/16/17

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances		
Stability of embankments and other soil areas		
Integrity and condition of vegetation		
Collection, storage and release of stormwater in accordance with the facility design		
Sediment accumulation		
Safety		

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y <del>NA</del> (stones all clear)	
Safety	Y	

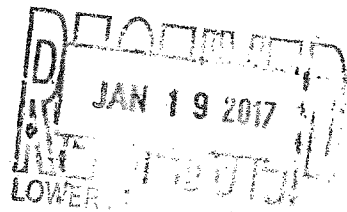
Submitted by:

Ronald C Hodge  
Name (print)

Ronald C Hodge  
Signature

1/16/17  
Date





**Lower Allen Township**

National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit

Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> Old Gettysburg Associates V	<u>Property Address</u> 4732 Gettysburg Rd. Mechanicsburg PA 17055
<u>Tax Parcel ID No.</u> 13-24-0795-168	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: 1/12/17

Inspection of Open Basins:

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

Inspection of Subsurface Storage/Infiltration Facilities:

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities		
Stability of soil over and adjacent to the facility		
Collection, storage and release of stormwater in accordance with the facility design		
Sediment accumulation		
Safety		

Submitted by:

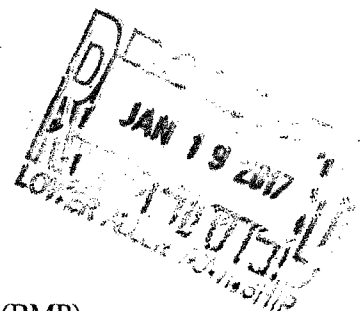
Steve Sinkovitz  
Name (print)

[Signature]  
Signature

1/12/16  
Date



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit



Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> Old Gettysburg Associates V1	<u>Property Address</u> 4532 Gettysburg Rd Mechanicsburg PA 17055
<u>Tax Parcel ID No.</u> 13-24-0795-137	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: 1/12/17

**Inspection of Open Basins:**


	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities		
Stability of soil over and adjacent to the facility		
Collection, storage and release of stormwater in accordance with the facility design		
Sediment accumulation		
Safety		

Submitted by:

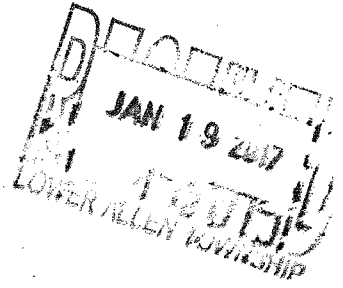
Steve Siwkowitz  
Name (print)

  
Signature

1/12/17  
Date



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit



Stormwater Management Facilities and Best Management Practices (BMP)  
**Operation and Maintenance Inspection Report**

<u>Property Owner Name(s)</u> Old Gettysburg Associates IV	<u>Property Address</u> 4712 Gettysburg Rd, Mechanicsburg PA 17055
<u>Tax Parcel ID No.</u> 13-24-0795-003	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: 1/12/17

**Inspection of Open Basins:**

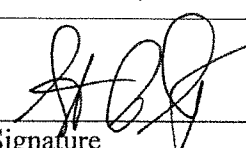
	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances		
Stability of embankments and other soil areas		
Integrity and condition of vegetation		
Collection, storage and release of stormwater in accordance with the facility design		
Sediment accumulation		
Safety		

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

Submitted by:

Steve Sinkovitz  
Name (print)

  
Signature

1/12/17  
Date





**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit

Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> 950 Woodland Investments LLC	<u>Property Address</u> 950 Woodland St. Mechanicsburg PA, 17055
<u>Tax Parcel ID No.</u> 13-24-0795-170	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: 1/12/17

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances		
Stability of embankments and other soil areas		
Integrity and condition of vegetation		
Collection, storage and release of stormwater in accordance with the facility design		
Sediment accumulation		
Safety		

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

Submitted by:

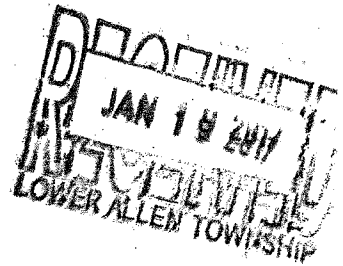
Steve Sinkovitz  
Name (print)

[Signature]  
Signature

1/12/17  
Date



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit



Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> Donathon & Jude Ruel	<u>Property Address</u> 1595 Thompson Lane Mech. PA 17065
<u>Tax Parcel ID No.</u> 13-10-0258-063	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: 1/15/17

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

Submitted by:

Donathon Ruel  
Name (print)

[Signature]  
Signature

1/15/17  
Date



**Lower Allen Township**  
 National Pollutant Discharge Elimination System (NPDES)  
 Municipal Separate Storm Sewer System (MS4) Permit

**Stormwater Management Facilities and Best Management Practices (BMP)  
 Operation and Maintenance Inspection Report**

<u>Property Owner Name(s)</u> JOHN R & SHARI M ZIMMERMAN	<u>Property Address</u> 1748 LIBERTY CIRCLE MECHANICSBURG PA 17055-6791
<u>Tax Parcel ID No.</u> 13-11-0220-104	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>  

Date of Inspection: 1/16/2017

**Inspection of Open Basins:**

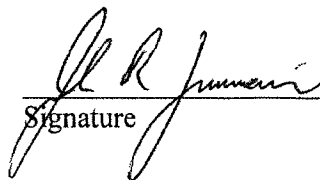
	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y <del>NO</del>	NEW HOUSE SOLD OCT. 6, 2016
Safety	Y	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities		
Stability of soil over and adjacent to the facility		
Collection, storage and release of stormwater in accordance with the facility design		
Sediment accumulation		
Safety		

Submitted by:

JOHN R. ZIMMERMAN  
 Name (print)

  
 Signature

1/16/2017  
 Date



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit

Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> Charles & Vicki Sourbeer	<u>Property Address</u> 1730 Liberty Ave Lot 49 of High Meadow
<u>Tax Parcel ID No.</u> 13-11-0270-101	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u> —

Date of Inspection: 1-13-17

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	yes	
Stability of embankments and other soil areas	yes	
Integrity and condition of vegetation	yes	
Collection, storage and release of stormwater in accordance with the facility design	yes	
Sediment accumulation	yes	
Safety	yes	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	yes	
Stability of soil over and adjacent to the facility	yes	
Collection, storage and release of stormwater in accordance with the facility design	yes	
Sediment accumulation	yes	
Safety	yes	

Submitted by:

Vicki L. Sourbeer      Vicki L. Sourbeer      1-14-17  
Name (print)      Signature      Date



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit

JAN 17 2017  
RECEIVED

Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> DEREK PRICE	<u>Property Address</u> 4526 WOODS WAY MECHANICSBURG, PA 17055
<u>Tax Parcel ID No.</u> 13-10-0256-068 ?	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u> MANDOR @ WESTPORT

Date of Inspection: 1/12/17

**Inspection of Open Basins:**

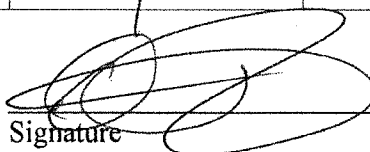
	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

Submitted by:

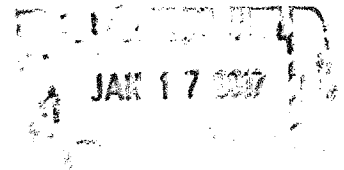
DEREK PRICE  
Name (print)

  
Signature

1/12/17  
Date



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit



Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> LFGC INC	<u>Property Address</u> 3804 LISBURN RD MECHANICSBURG PA 17055
<u>Tax Parcel ID No.</u> 13-11-0270-042	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: 1/12/17  
**Inspection of Open Basins:**

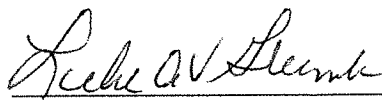
	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

Submitted by:

LUKE A.J. GRUM BWC  
Name (print)

  
Signature

1/12/17  
Date



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit  
Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

JAN 17 2017  
PA 17011

<u>Property Owner Name(s)</u> VERTICAL PROPERTIES, L.P.	<u>Property Address</u> 1304 SLATE HILL ROAD CAMP HILL, PA. 17011
<u>Tax Parcel ID No.</u> 13-25-0020-0524	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u> PROJECT NO. 13069

Date of Inspection: 1/16/17

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	MINOR OVERSEEDS TO BE DONE IN SPRING (50 SF)
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	NONE
Safety	Y	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities		
Stability of soil over and adjacent to the facility		
Collection, storage and release of stormwater in accordance with the facility design		
Sediment accumulation		
Safety		

Submitted by:

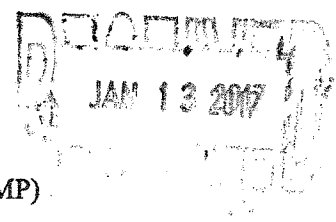
ROBERT KALASICH JR.  
Name (print)

[Signature]  
Signature

1/16/17  
Date



Arizona



**Lower Allen Township**  
**National Pollutant Discharge Elimination System (NPDES)**  
**Municipal Separate Storm Sewer System (MS4) Permit**

**Stormwater Management Facilities and Best Management Practices (BMP)**

**Operation and Maintenance Inspection Report**

Property Owner Name(s)  
Asheville Per owner LLC

Property Address

Arconia Rd

Tax Parcel ID No.

Subdivision/Land Development/Drainage Plan No. (if known)

13-10-0256-011 & 13-10-0257-011

ARCONIA

Date of Inspection: 1/12/16

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	NA	
Stability of embankments and other soil areas	NA	
Integrity and condition of vegetation	NA	
Collection, storage and release of stormwater in accordance with the facility design	NA	
Sediment accumulation	NA	
Safety		

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	NA	
Stability of soil over and adjacent to the facility	NA	
Collection, storage and release of stormwater in accordance with the facility design	NA	
Sediment accumulation	NA	
Safety	NA	

Submitted by:

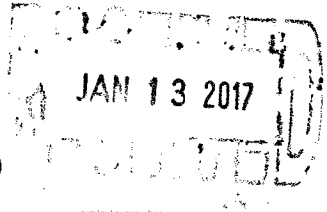
Matt Frielman  
Name (print)

Signature

1/12/16  
Date



Algonquin 92



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit

**Stormwater Management Facilities and Best Management Practices (BMP)**  
**Operation and Maintenance Inspection Report**

Property Owner Name(s)

CHarter Homes @ HighPoint

Property Address

ARCUM RD

Tax Parcel ID No.

13-10-0256-092

Subdivision/Land Development/Drainage Plan No. (if known)

Highpoint

Date of Inspection: 1/12/16

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	NA	
Stability of soil over and adjacent to the facility	NA	
Collection, storage and release of stormwater in accordance with the facility design	NA	
Sediment accumulation	NA	
Safety	NA	

**Submitted by:**

Matt Eschelman  
Name (print)

[Signature]  
Signature

1/12/16  
Date



RECORDED  
JAN 13 2017  
COUNTY

**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit

Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> Michelle Meiser	<u>Property Address</u> 2420 Massachusetts Avenue Camp Hill PA 17011
<u>Tax Parcel ID No.</u> 13-23-0549-107	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: 1/4/17

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	X	
Stability of soil over and adjacent to the facility	X	
Collection, storage and release of stormwater in accordance with the facility design		
Sediment accumulation		
Safety		

Submitted by:

Michelle Meiser

Name (print)

Michelle Meiser

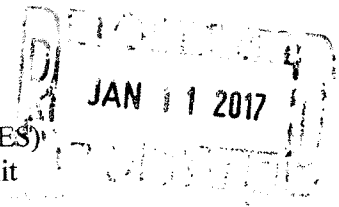
Signature

1/5/17

Date



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit



**Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report**

<u>Property Owner Name(s)</u> Kyle C. Snyder	<u>Property Address</u> 1504 Woodcreek Drive Mechanicsburg, PA 17055
<u>Tax Parcel ID No.</u> #13-08-2430-111	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: January 8, 2017

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	N/A	
Stability of embankments and other soil areas		
Integrity and condition of vegetation		
Collection, storage and release of stormwater in accordance with the facility design		
Sediment accumulation		
Safety		

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

Submitted by:

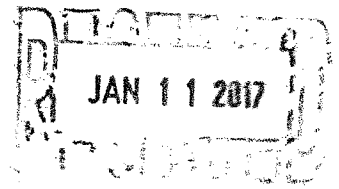
Kyle C. Snyder  
Name (print)

[Signature]  
Signature

1/8/2017  
Date



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit



Stormwater Management Facilities and Best Management Practices (BMP)

Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> Linfo Properties III, LP	<u>Property Address</u> 1215 Manor Drive <sup>Lower</sup> Allen Township Mechanicsburg, PA 17055
<u>Tax Parcel ID No.</u> 13-10-0256-037	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: January 2017

Inspection of Open Basins:

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	YES	
Stability of embankments and other soil areas	YES	
Integrity and condition of vegetation	YES	
Collection, storage and release of stormwater in accordance with the facility design	YES	
Sediment accumulation	YES	
Safety	YES	

Inspection of Subsurface Storage/Infiltration Facilities:

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	NIA	
Stability of soil over and adjacent to the facility	NIA	
Collection, storage and release of stormwater in accordance with the facility design	NIA	
Sediment accumulation	NIA	
Safety	NIA	

Submitted by:

Lowell R. Gates  
Name (print)

Lowell R. Gates  
Signature

6 JAN 2017  
Date



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit

RECEIVED  
JAN 11 2017

Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> SHRIER FAMILY L.P.	<u>Property Address</u> 75 E. Main Street, Canal Hill, PA 17011
<u>Tax Parcel ID No.</u> 13-23-0553-009	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: 01/06/2017

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	N	
Safety	Y	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	N	
Safety	Y	

Submitted by:

LAURENCE T. SHRIER, P.E.      Laurence T. Shrier      Jan. 6, 2017  
Name (print)      Signature      Date



0000000000  
JAN 2017

**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit

Stormwater Management Facilities and Best Management Practices (BMP)

Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> Rudolf + Gertrude V. GASSNER	<u>Property Address</u> 1712 LIBERTY COVE MECHANICSBURG, PA 17055
<u>Tax Parcel ID No.</u> 13-11-0270-097	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: Dec. 28, 2016

Inspection of Open Basins:

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	None
Sediment accumulation	X	
Safety	Y	

Inspection of Subsurface Storage/Infiltration Facilities:

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	X	None
Sediment accumulation	X	
Safety	X	

Submitted by:

RUDOLF GASSNER  
Name (print)

Rudolf Gassner  
Signature

12/28/2016  
Date



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit

13-23-0559-082  
1/3/17

Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> Bridge Street Parking L.P.	<u>Property Address</u> 5016 Simpson Ferry Road, Mechanicsburg Pa 17055
<u>Tax Parcel ID No.</u> 13-23-0559-082	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: 12/29/2016

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Yes	
Stability of embankments and other soil areas	Yes	
Integrity and condition of vegetation	Yes	
Collection, storage and release of stormwater in accordance with the facility design	Yes	
Sediment accumulation	Yes	
Safety	Yes	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities		
Stability of soil over and adjacent to the facility		
Collection, storage and release of stormwater in accordance with the facility design		
Sediment accumulation		
Safety		

Submitted by:

Carl Hintz

Name (print)

Signature

Date

1/3/17



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit

Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> Hoson Bickel/Laura Yoh-Ach	<u>Property Address</u> 2414 Massachusetts Ave Camp Hill, PA 17011
<u>Tax Parcel ID No.</u> 13-23-0549-109	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: 12/30/2016

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

Submitted by:

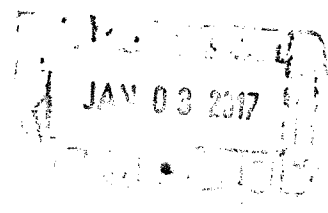
Laura Yoh-Ach  
Name (print)

Laura K. Yoh-Ach  
Signature

12/30/16  
Date



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit



Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> Tracy & Linda Eitter Eitter Investments, LLC	<u>Property Address</u> 5026 Arthur Ave Mechanicsburg PA 17025
<u>Tax Parcel ID No.</u> 13230559089	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: 1-3-2017

Inspection of Open Basins:

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

Inspection of Subsurface Storage/Infiltration Facilities:

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

Submitted by:

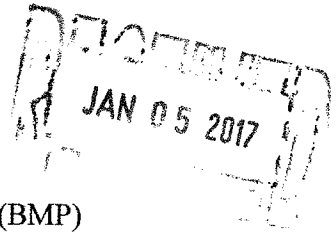
Tracy D. Eitter  
Name (print)

Signature

1-3-2017  
Date



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit



Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> Harvey Sannon	<u>Property Address</u> 4975 Ravenwood Rd Mech, PA 17055
<u>Tax Parcel ID No.</u> 13-26-0247-107	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: \_\_\_\_\_

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

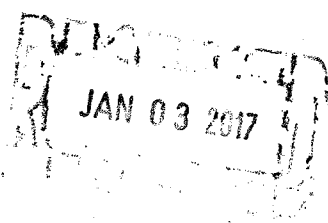
Submitted by:

Harvey Sannon  
Name (print)

Harvey Sannon  
Signature

1-2-2017  
Date





**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit

Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> Lower Allen VFW Post 7530	<u>Property Address</u> 4545 Westport Dr Mechanicsburg, PA 17055
<u>Tax Parcel ID No.</u> #13-10-6256-639	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: 12-30-16

Inspection of Open Basins:

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

Inspection of Subsurface Storage/Infiltration Facilities:

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

Submitted by:

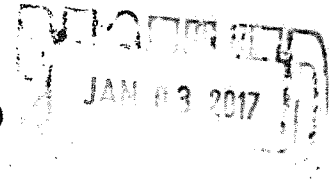
Sandra Clark  
Name (print)

Sandra Clark  
Signature

12-30-16  
Date



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit



Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> Alicia Miller	<u>Property Address</u> 1570 Thompson Ln, Mechanicsburg PA 17055
<u>Tax Parcel ID No.</u> 13-10-0258-034	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: 12-31-16

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

Submitted by:

Alicia Miller

Name (print)

Alicia Miller

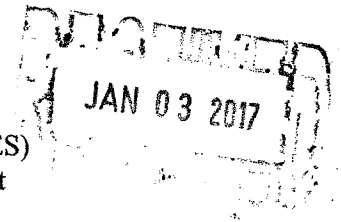
Signature

12-31-16

Date



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit



Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> JOHN J ELTRINGHAM	<u>Property Address</u> 1724 LIBERTY COVE MECHANICSBURG, PA 17055
<u>Tax Parcel ID No.</u> 13-11-0270-099	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: 12/27/16  
Inspection of Open Basins:

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

Inspection of Subsurface Storage/Infiltration Facilities:

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

Submitted by:

JOHN J ELTRINGHAM  
Name (print)

Signature

12/27/16  
Date



LAW OFFICES OF  
**KOLLAS AND KENNEDY**

1104 FERNWOOD AVENUE  
CAMP HILL, PENNSYLVANIA 17011

Telephone No. (717) 731-1600 ♦ Facsimile No. (717) 731-1460

WILLIAM C. KOLLAS  
JAMES W. KOLLAS

E-mail: carole@kollasandkennedy.com  
E-mail: james@kollasandkennedy.com

January 10, 2017

Lower Allen Township  
Attention MS-4 Coordinator  
2233 Gettysburg Road  
Camp Hill, PA 17011

**RE: Inspection of Installed Stormwater BMP**  
**Tax Parcel #: 13-23-0553-060**  
**Property: 3599 Gettysburg Road, Camp Hill, PA 17011**

Dear Sir or Madam:

Enclosed please find a completed Operation and Maintenance Inspection Report in reference to the above property.

If you should have any questions, please do not hesitate to contact my office.

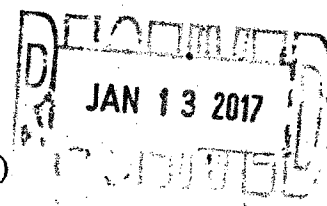
Very truly yours,

*William C. Kollas/car*

William C. Kollas

WCK/car  
Enclosure





**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit

**Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report**

<u>Property Owner Name(s)</u> William C. Kollas and Dianne L. Kollas	<u>Property Address</u> 3599 Gettysburg Rd, Camp Hill, PA 17011
<u>Tax Parcel ID No.</u> 13-23-0553-060	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: 12/27/2016

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

Submitted by:

William C. Kollas  
Name (print)

William Kollas  
Signature

1-10-17  
Date



RECEIVED  
JAN 11 2017  
M REALTY

RECEIVED  
FEB 03 2017

**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit

**Stormwater Management Facilities and Best Management Practices (BMP)**  
**Operation and Maintenance Inspection Report**

<b>Property Owner Name(s)</b> WALMART REAL ESTATE BUSINESS TRUST	<b>Property Address</b> 3400 Hartzdale Dr Camp Hill 17011
<b>Tax Parcel ID No.</b> 13-23-0551-111	<b>Subdivision/Land Development/Drainage Plan No. (if known)</b>

Date of Inspection: 1/13/2017

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	vegetation 100% - plant material healthy
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	NONE Present
Safety	Y	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	No sediment found in any of the (4) UG systems onsite
Safety	Y	

Submitted by:

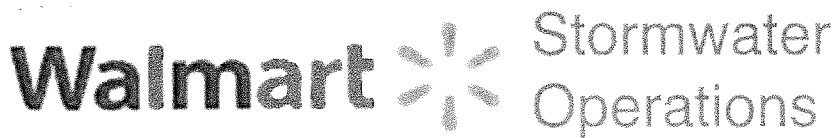
Derrick Loy  
Name (print)

Signature

Date

1/13/2017





## STORMWATER OPERATIONS WORK COMPLETION

This work completion report must be completed by the contractor and **signed by an authorized Walmart associate** each time stormwater system work is performed.

Store/Club Number: 5888 Store/Club Location: 3400 Hartzdale Dr. Camp Hill (Harrisburg),  
Arrival Date: 1/12/2017 Arrival Time: 2:00 PM Total hours  
Departure Date: 1/13/2017 Departure Time: 11:30 AM worked on job  
site: 12.5  
Contractor: Kleenco Maintenance & Construction, Inc. Vendor Number: 845602

Category: ☐ Routine Maintenance ☒ Repair ☒ Emergency Response/Other

### Comments/Additional Information:

inspection of U/G Basins P-1A,P-1B,P-1C,P-1D.

Team Lead Printed Name: Sean McGrath

Contractor Team Lead Signature: 

Store/Club Management Name: Michelle McDaniel

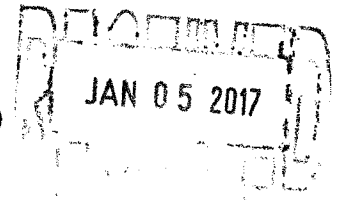
☐ Store Mgr/Co-Mgr.  
☒ Asst. Mgr.

Store/Club Management Signature: 

Date: 1/13/2017



**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit



Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> Vantage Foods PA/LP	<u>Property Address</u> 2700 Yetter Court Camp Hill, PA 17011
<u>Tax Parcel ID No.</u> 13-10-0258-012	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: Jan 3 / 2017

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y	
Safety	Y	

Submitted by:

David McDonald  
Name (print)

Del R. Dule  
Signature

Jan 3 / 2017  
Date



750-111-1111  
JAN 23 2017

**Lower Allen Township**  
National Pollutant Discharge Elimination System (NPDES)  
Municipal Separate Storm Sewer System (MS4) Permit

Stormwater Management Facilities and Best Management Practices (BMP)  
Operation and Maintenance Inspection Report

<u>Property Owner Name(s)</u> Jeremy & Lauren Freeland	<u>Property Address</u> 1435 Main St Mechanicsburg, PA 17055
<u>Tax Parcel ID No.</u> 13-31-2136-001A	<u>Subdivision/Land Development/Drainage Plan No. (if known)</u>

Date of Inspection: \_\_\_\_\_

**Inspection of Open Basins:**

	Satisfactory (Y/N)	Repairs needed (list repairs, if any)
Structural integrity and operation of outlet structures and appurtenances	Y	
Stability of embankments and other soil areas	Y	
Integrity and condition of vegetation	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y (no sediment)	
Safety	Y	

**Inspection of Subsurface Storage/Infiltration Facilities:**

	Satisfactory (Y/N)	Repairs needed (list repairs)
Structural integrity and operation of outlet structures and related facilities	Y	
Stability of soil over and adjacent to the facility	Y	
Collection, storage and release of stormwater in accordance with the facility design	Y	
Sediment accumulation	Y (no sediment)	
Safety	Y	

Submitted by:

Jeremy Freeland  
Name (print)

[Signature]  
Signature

1-21-17  
Date



## ATTACHMENT # 12

MS – 4 VIOLATION INFORMATION







## Summary of Violations and Follow-up Actions

There were a total of three (3) violations and or enforcement actions in the Township during this permit period. Those occurrences are described below and the documentation of these events follows.

- **Outfall # CR-05** – DEP notice received regarding potential illicit discharge (soap suds) from Lower Allen township outfall # CR-05 received on March 31, 2016
  - Action; Outfall was investigated and only a very small amount of bubbles were noted
- **Microbrewery** – Discharge noted by Township staff
  - Tenant and property owner were notified and the discharge terminated immediately, a written notice was sent as a follow-up.
- **West Shore School District** - Voluntary notification of Improper discharge –
  - Action; Plumbing rerouted to prevent future occurrences.

Documentation for all above matters are attached on the pages which follow this section.



**William Gralski**

---

04

**From:** Daniel Flint  
**Sent:** Thursday, March 31, 2016 8:07 A  
**To:** William Gralski  
**Subject:** Fwd: Discharge to Cedar Run  
**Attachments:** IMG\_0926.JPG

Sent from my iPhone

Begin forwarded message:

**From:** "Bowen, Patrick" <[patbowen@pa.gov](mailto:patbowen@pa.gov)>  
**Date:** March 31, 2016 at 8:04:01 AM EDT  
**To:** Daniel Flint <[DFlint@latwp.org](mailto:DFlint@latwp.org)>  
**Subject:** FW: Discharge to Cedar Run

Good morning Mr. Flint,

DEP received a complaint regarding foam observed at Township. The Department is asking that the Townsh findings to the Department. Details are below. A pho

Thanks,

Patrick Bowen | Water Quality Specialist Department  
Regional Office  
909 Elmerton Avenue | Harrisburg, PA 17110  
Phone: 717.705.4157 | Fax: 717.705.4760  
24-Hour Emergency Response: 866-825-0208

-----Original Message-----

**From:** Wriglesworth, Sarah  
**Sent:** Wednesday, March 30, 2016 11:43 AM  
**To:** Bowen, Patrick  
**Cc:** Minskey, Jeffrey  
**Subject:** FW: Discharge to Cedar Run

Pat,

Could you please refer this to Lower Allen Twp. as an back to us with what they find? Foam looks minimal in suspicion as it is directly behind a huge carwash.

From CTS:



Short description: DISCHARGE FROM A STORM DRAIN THAT ENTERS CEDAR RUN  
(WHITE FOAMY)

Location: AT SEARS (CAPITAL CITY MALL), INTERSECTION OF HARTZDALE DRIVE  
AND LOWER ALLEN DRIVE, BEHIND THE CARWASH AND THE TIRE BUSINESS  
(FARR)





**William Gralski**

---

**From:** Bowen, Patrick <patbowen@pa.gov>  
**Sent:** Monday, April 25, 2016 3:23 PM  
**To:** William Gralski  
**Cc:** McNulty, Michael  
**Subject:** RE: 3525 Hartzdale Dr follow up

Thanks for the info. Please make sure you include this with your MS4 ar

Patrick Bowen | Water Quality Specialist Department of Environmental  
909 Elmerton Avenue | Harrisburg, PA 17110  
Phone: 717.705.4157 | Fax: 717.705.4760  
24-Hour Emergency Response: 866-825-0208

-----Original Message-----

**From:** William Gralski [mailto:WGralski@latwp.org]  
**Sent:** Monday, April 25, 2016 1:08 PM  
**To:** Bowen, Patrick  
**Cc:** Raymond Allen; Daniel Flint  
**Subject:** FW: 3525 Hartzdale Dr follow up

Good Afternoon Pat:

I am sending you this e-mail as a follow-up to our earlier correspondence in Lower Allen Township.

As you are aware from our earlier correspondence, we were unable to f the site. Last week one of our staff members visited the outfall after a r his observations there was a little foaming at the outfall site, but that it this foaming is a naturally occurring phenomenon occurring as a result c the receiving waters. At this juncture we do not believe that any follow-

Please let me know if you agree with this assessment.

Bill Gralski

-----Original Message-----

**From:** Raymond Allen  
**Sent:** Friday, April 22, 2016 3:07 PM  
**To:** William Gralski <WGralski@latwp.org>  
**Subject:** 3525 Hartzdale Dr follow up

Bill,



FYI - I stopped by after our cloud burst Friday and snapped this shot of the 54 in placed in spread sheet.

Ray





Johnnie Compton  
650 Susquehanna Trail  
Liverpool, PA 17045

Re: Stormwater Ordinance Violations at Microbrewery on 22

Dear Mr. Compton & Ms. Loxas:

On April 20, 2016, staff members from Lower Allen Township location washing and/or sanitizing equipment on the western actions resulted in process water entering the stormwater sy: thereafter entering an unnamed tributary of Cedar Run. Plea discharges constitute a "Prohibited Discharge" and, as such a Stormwater Ordinance and the Clean Streams law. You are h discharges IMMEDIATELY UPON RECEIPT OF THIS LETTER! Su the law, but will endanger the public health and the health of

This is the only notice you will receive regarding this matter. will follow this letter with a formal Notice of Violation (

Please feel free to contact me with any questions.

William P. Gralski, P.E.

Lower Allen Township MS-4 Coordinator

013 2250 0000 5573 3069

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~ ~ ~



06.29.2016

## Memo

**To**  
File

**From**  
WPG

**CC**

**Re**  
Cedar Cliff High School  
Site Inspection

### Comments:

Present on-site:

William P. Gralski, P.E. (WPG) – MS-4 Coordinator  
Adam C. Bergens (ACB) – Supervisor of Building  
(WSSD)

The memo below is a summary of events that were conducted by staff from Lower Allen Township on the morning of June 29, 2016 at 7:48 AM. This was a site visit to the same location on May 11 of this year. It was noted that leaking valves caused the boilers to leak stormwater system which was a violation of the MS-4. This violation was brought to the attention of the WSSD. The purpose of the June visit was to

Mr. Bergens explained that the boiler room is situated in a building that had installed temporary measures to correct the problem. The temporary measures taken are described below.

- Regarding the leaking pressure relief valve, WPG is attempting to order a new pressure relief valve. It is the intention of WSSD to develop a permanent solution which would be easier to maintain than being used to absorb this low flow from the boiler.
- Regarding the leaking boiler drain valve, WPG is attempting to order a new unit stopping this leak.
- Regarding the boiler drain valve on Boiler Room, WPG is attempting to order a new unit stopping this leak.
- Additionally, all floor drains have been cleaned.

The above measures appear to have alleviated the problem.

Lower Allen Township

Tel (717) 975-7575

2233 Gettysburg Road  
Camp Hill PA, 17011

www.lattwp.org  
wgralski@lattwp.org







# **ATTACHMENT # 13**

INVENTORY OF INSTALLED BMP'S  
AT TOWNSHIP FACILITIES







**LOWER ALLEN TOWNSHIP  
INVENTORY OF FACILITIES AND ACTIVITIES WITH POTENTIAL TO GENERATE STORMWATER RUNOFF**

	Name	Location	Description	Acres	Facilities	Uses/ Activities	Township Operations	Potential Pollutants	BMPs
1	Beacon Hill	1525 Capitol View Drive	Neighborhood park	3.4	Play structure; Pavilion	Recreation	Maintenance	Trash	Grass lined swale
2	Radar Site	1612 Lowell Lane	Passive park	8.1	Open space; parking area	Passive recreation	Maintenance	Trash; vehicle drippings	Grass lined swale
3	Beacon Hill Land	Beacon Hill Blvd. At Poplar Avenue	Open field, wooded floodplain	9.7	Open space	Passive recreation	Maintenance	Trash	Riparian buffer
4	Creekwood	150 Creekwood Drive	Neighborhood park	5.6	Picnic tables; trail	Passive recreation; hiking; fishing; parking area	Maintenance	Trash; vehicle drippings	Porous asphalt trail; riparian buffer
5	Allendale	221 Deerfield Road	Neighborhood park	1.2	Pavilion; swing set; play structure; merry-go-round, basketball court	Recreation	Maintenance	Trash	None
6	Highland Park Playground	1301 Chatham Road	Neighborhood park	2.0	Pavilion; picnic tables; tennis court; basketball court; shuffleboard court; play structure; swing set	Recreation	Maintenance	Trash	None



	Name	Location	Description	Acres	Facilities	Uses/ Activities	Township Operations	Potential Pollutants	BMPs
12	Lower Allen Community Park (LACP)	4075 Lisburn Road	Regional park; regional sports activities	110.0	Pavilions, play structures, Fun Fort, swing sets; volleyball courts; basketball courts; tennis courts; camp sites; boat ramp; nature trail; fishing pond; soccer fields; softball fields; golf driving range; community "barn" building; parking lots; dog park	Recreation; team athletic functions; group rentals at "barn" and pavilions	Maintenance; community events	Trash; vehicle drippings; pet waste	Stormwater basin; grass- lined swale
13	Windsor Park Triangle	5200 Block Oxford Drive	Neighborhood passive recreation	1.0	None	Recreation	Maintenance	Trash	None
14	Moreland Basin	5400 Block Oxford Drive	Stormwater detention basin	1.0	Basin with outlet structure	None	Maintenance	Trash; vehicle drippings; other material in street runoff	SWM basin; rock filter at outlet structure
15	Sheepford Crossing Basin 1	Sheepford Road at Lisburn Road	Stormwater detention basin	0.5	Basin with outlet structure	None	Maintenance	Trash; vehicle drippings; other material in street runoff	SWM basin; rock filter at outlet structure



	Name	Location	Description	Acres	Facilities	Uses/ Activities	Township Operations	Potential Pollutants	BMPs
20	Spring Lake Colony Lots	Between Orchard Road and Shetter Lane	Vacant wooded lots	1.6	None	None	None	None	None
21	Former Township Building	1993 Hummel Avenue	Former Township office	1.0	Office building; parking lot; stormwater pond and pump	Rented space	Building and site maintenance	Trash; vehicle drippings	SWM basin
22	Municipal Services Center	2233 Gettysburg Road	Township office	6.7	Office; vehicle storage; parking lots	Office; police, fire and EMS operations	Office building; parking lot; building and site maintenance	Trash, vehicle drippings	Rain gardens; porous asphalt parking lot; infiltration trench
23	Cedar Spring Run Park	2239 Gettysburg Road	Play area; walking path; restrooms; pedestrian bridge	2.5	Restroom; parking area; walking path; seating area	Recreation	Maintenance	Trash; vehicle drippings	Rain gardens; porous concrete parking area; riparian buffer







## ATTACHMENT # 14

SUMMARY OF PUBLIC WORKS ACTIVITIES RELATED TO MUNICIPAL O&M PROGRAM







LOCATION:  
**LOWER ALLEN TOWNSHIP PUBLIC WORKS**  
**1400 ST. JOHNS RD**  
**CAMP HILL PA. 17011**  
STORM WATER MANAGEMENT PLAN  
POLLUTION PREVENTION/GOOD HOUSEKEEPING  
OPERATIONS AND MAINTENANCE PROGRAM

2016

**Salt separator and storm water inlets cleaned:**

**Date cleaned: 8/1/16**  
**Method used: Sweeper (Vacuumed)**  
**Personnel: Marshall, Jeff**

**Internal drainage system cleaned:**

**Date cleaned: 3/14/16**  
**Method used: Electric Eel**  
**Personnel: Ryan, Scott**

**Oil Interceptor cleaned:**

**Date cleaned: 3/14/16**  
**Method used: Shop Vac**  
**Personnel: Ryan, Scott**

**Porous Blacktop Sweeping at MSC, Creekwood Park, CSRP, Pete's Field:**

**Dated cleaned: 6/3/16**  
**Method used: Sweeper (Vacuumed)**  
**Personnel: Marshall**

**2 Inlet Box Sponge Baskets at the North side of Public Works Building:**

**Date cleaned: 1/18/17**  
**Method used: Manually**  
**Personnel: Ryan**

**Contractor Pruitt Trucking Street Sweepings Disposal:**



**Lower Allen Township  
Storm Water Management Plan  
Pollution Prevention/Good Housekeeping  
Operations and Maintenance Program**

**STREET SWEEPER CAPACITY 6 CUBIC YARDS FULL**

**START DATE – 2/29/16      END DATE – 3/4/16**

**OPERATORS NAME – MARSHALL & Scott**

**Storm water Inlets cleaned:**

Lower Allen Township:	_____
PennDOT:	_____PennDot_____
Total:	_____120_____
Loads:	_____2.5_____
Pounds Per Loads:	_____3300_____
Total Pounds:	_____8,250_____
Total Tonnage:	_____4.13_____

**Street Sweeping:**

Loads:	_____
Pounds Per Load:	_____
Total Pounds:	_____
Total Tonnage	_____

Curb miles of street cleaned annually by street sweeping operations\_\_\_\_\_

Loads of sweepings collected annually by street sweeping operations\_\_\_\_\_

Loads of leaves removed from streets annually by leaf recycling operations\_\_\_\_\_



**Lower Allen Township  
Storm Water Management Plan  
Pollution Prevention/Good Housekeeping  
Operations and Maintenance Program**

**STREET SWEEPER CAPACITY 6 CUBIC YARDS FULL**

**2016**

**Storm water inlets cleaned:**

Lower Allen Township:	_____
PennDOT:	_____
Total:	_____
Loads:	_____
Pounds Per Loads:	_____ <b>3300</b> _____
Total Pounds:	_____
Total Tonnage:	_____
Number of Days to complete project:	_____

**Street Sweeping Totals:**

Loads:	_____ <b>62</b> _____
Pounds Per Load:	_____ <b>5190</b> _____
Total Pounds:	_____ <b>321,780</b> _____
Total Tonnage	_____ <b>160.89</b> _____

Curb miles of street cleaned annually by street sweeping operations **660**

Loads of sweepings collected annually by street sweeping operations **62**

Loads of leaves removed from streets annually by leaf recycling operations **240**



**Lower Allen Township  
Storm Water Management Plan  
Pollution Prevention/Good Housekeeping  
Operations and Maintenance Program**

**STREET SWEEPER CAPACITY 6 CUBIC YARDS FULL**

**ROUND # 1**

**START DATE - 4/4/16      END DATE - 4/19/16**

**OPERATORS NAME - MARSHALL**

**Storm water inlets cleaned:**

Lower Allen Township: \_\_\_\_\_

PennDOT: \_\_\_\_\_

Total: \_\_\_\_\_

Loads: \_\_\_\_\_

Pounds Per Loads: \_\_\_\_\_ **3300**

Total Pounds: \_\_\_\_\_

Total Tonnage: \_\_\_\_\_

Number of Days to complete project: \_\_\_\_\_

**Street Sweeping:**

Loads: \_\_\_\_\_ **15**

Pounds Per Load: \_\_\_\_\_ **5190**

Total Pounds: \_\_\_\_\_ **77,850**

Total Tonnage \_\_\_\_\_ **38.93**

Curb miles of street cleaned annually by street sweeping operations **165**

Loads of sweepings collected annually by street sweeping operations \_\_\_\_\_

Loads of leaves removed from streets annually by leaf recycling operations \_\_\_\_\_



**Lower Allen Township  
Storm Water Management Plan  
Pollution Prevention/Good Housekeeping  
Operations and Maintenance Program**

**STREET SWEEPER CAPACITY 6 CUBIC YARDS FULL**

**ROUND # 2**

**START DATE - 6/1/16**

**END DATE - 6/25/16**

**OPERATORS NAME - MARSHALL**

**Storm water inlets cleaned:**

Lower Allen Township:

\_\_\_\_\_

PennDOT:

\_\_\_\_\_

Total:

\_\_\_\_\_

Loads:

\_\_\_\_\_

Pounds Per Loads:

**3300**

Total Pounds:

\_\_\_\_\_

Total Tonnage:

\_\_\_\_\_

Number of Days to complete project:

\_\_\_\_\_

**Street Sweeping:**

Loads:

**15**

Pounds Per Load:

**5190**

Total Pounds:

**77,850**

Total Tonnage

**38.93**

Curb miles of street cleaned annually by street sweeping operations **165**

Loads of sweepings collected annually by street sweeping operations \_\_\_\_\_

Loads of leaves removed from streets annually by leaf recycling operations \_\_\_\_\_



**Lower Allen Township  
Storm Water Management Plan  
Pollution Prevention/Good Housekeeping  
Operations and Maintenance Program**

**STREET SWEEPER CAPACITY 6 CUBIC YARDS FULL**

**ROUND # 3**

**START DATE - 8/8/16      END DATE - 8/24/16**

**OPERATORS NAME - MARSHALL**

**Storm water Inlets cleaned:**

Lower Allen Township: \_\_\_\_\_

PennDOT: \_\_\_\_\_

Total: \_\_\_\_\_

Loads: \_\_\_\_\_

Pounds Per Loads: \_\_\_\_\_ **3300**

Total Pounds: \_\_\_\_\_

Total Tonnage: \_\_\_\_\_

Number of Days to complete project: \_\_\_\_\_

**Street Sweeping:**

Loads: \_\_\_\_\_ **13**

Pounds Per Load: \_\_\_\_\_ **5190**

Total Pounds: \_\_\_\_\_ **64,470**

Total Tonnage \_\_\_\_\_ **33.75**

Curb miles of street cleaned annually by street sweeping operations **165**

Loads of sweepings collected annually by street sweeping operations \_\_\_\_\_

Loads of leaves removed from streets annually by leaf recycling operations \_\_\_\_\_



**Lower Allen Township  
Storm Water Management Plan  
Pollution Prevention/Good Housekeeping  
Operations and Maintenance Program**

**STREET SWEEPER CAPACITY 6 CUBIC YARDS FULL**

**ROUND # 4**

**START DATE - 12/5/16**

**END DATE - 1/20/17**

**OPERATORS NAME - MARSHALL**

**Storm water inlets cleaned:**

Lower Allen Township:

\_\_\_\_\_

PennDOT:

\_\_\_\_\_

Total:

\_\_\_\_\_

Loads:

\_\_\_\_\_

Pounds Per Loads:

**3300**

\_\_\_\_\_

Total Pounds:

\_\_\_\_\_

Total Tonnage:

\_\_\_\_\_

Number of Days to complete project:

\_\_\_\_\_

**Street Sweeping:**

Loads:

**19**

\_\_\_\_\_

Pounds Per Load:

**5190**

\_\_\_\_\_

Total Pounds:

**98,610**

\_\_\_\_\_

Total Tonnage

**49.31**

\_\_\_\_\_

Curb miles of street cleaned annually by street sweeping operations **165**

\_\_\_\_\_

Loads of sweepings collected annually by street sweeping operations

\_\_\_\_\_

Loads of leaves removed from streets annually by leaf recycling operations

\_\_\_\_\_



LOCATION:  
**LOWER ALLEN TOWNSHIP**  
**1400 S.ST. JOHNS RD**  
**CAMP HILL PA. 17011**  
STORM WATER MANAGEMENT PLAN  
POLLUTION PREVENTION/GOOD HOUSEKEEPING  
OPERATIONS AND MAINTENANCE PROGRAM

**Salt separator and storm water inlets cleaned:**

**Date cleaned:**  
**Method used:**  
**Personnel:**

**Internal drainage system cleaned:**

**Date cleaned:**  
**Method used:**  
**Personnel:**

**Oil Interceptor cleaned:**

**Date cleaned:**  
**Method used:**  
**Personnel:**

**Porous Blacktop Sweeping at MSC, Allendale Creekwood Park, CSRP, Pete's Field:**

**Dated cleaned:**  
**Method used:**  
**Personnel:**

**2 Inlet Box Sponge Baskets at the North side of Public Works Building:**

**Date cleaned:**  
**Method used:**  
**Personnel:**

**Contractor Pruitt Trucking Street Sweepings Disposal: 4/12/16 – 135.31 Tons**  
**10/31/16 – 81.67 Tons**





**Pruitt Trucking &  
Hauling Inc.**  
17324  
230 Conrad Lane

DATE	INVOICE #
4/12/2016	304327

<b>BILL TO</b>
Lower Allen Township 1400 St. Johns Road Camp Hill, Pa. 17011

<b>P.O. NO.</b>
Sweeping Debris D...

<b>CHECK NO.</b>

DATE	QTY	DESCRIPTION	TICKET NUM...	RATE	AMOUNT
4-6 Truck #802	20	Ton(s) Waste Hauling Charges (20 ton min.)	# 158212	14.50	290.00
	16.4	Ton(s) Disposal Fees		45.00	738.00
4-6 Truck # 1	20	Ton(s) Waste Hauling Charges (20 ton min.)	# 158213	14.50	290.00
	11.52	Ton(s) Disposal Fees		45.00	518.40
4-6 Truck #802	20	Ton(s) Waste Hauling Charges (20 ton min.)	# 158250	14.50	290.00
	14.84	Ton(s) Disposal Fees		45.00	667.80
4-6 Truck # 1	20	Ton(s) Waste Hauling Charges (20 ton min.)	# 158251	14.50	290.00
	16.44	Ton(s) Disposal Fees		45.00	739.80
4-6 Truck # 1	21.32	Ton(s) Waste Hauling Charges (20 ton min.)	# 158288	14.50	309.14
	21.32	Ton(s) Disposal Fees		45.00	959.40
4-6 Truck #802	22.19	Ton(s) Waste Hauling Charges (20 ton min.)	# 158289	14.50	321.76
	22.19	Ton(s) Disposal Fees		45.00	998.55
4-7 Truck # 1	20	Ton(s) Waste Hauling Charges (20 ton min.)	# 158357	14.50	290.00
	17.12	Ton(s) Disposal Fees		45.00	770.40
4-7 Truck #802	20	Ton(s) Waste Hauling Charges (20 ton min.)	# 158366	14.50	290.00
	15.48	Ton(s) Disposal Fees		45.00	696.60
		PA. 6% Sales Tax		6.00%	0.00
<div> <div>APPROVED FOR PAYMENT <i>R21</i></div> <div>DATE <u>4-18-16</u> DEPT <u>OH-427, 459</u></div> <div>STREET SWEEPING DEBRIS</div> </div>					
1 1/2 per month added after 30 days.				<b>Total</b>	\$8,459.85





**Pruitt Trucking &  
Hauling Inc.**  
230 Conrad Lane  
Gardners, Pa.  
17324

DATE	INVOICE #
10/31/2016	304601

BILL TO
Lower Allen Township 1400 St. Johns Road Camp Hill, Pa. 17011

P.O. NO.
Swweeping Depris

CHECK NO.

DATE	QTY	DESCRIPTION	TICKET NUM...	RATE	AMOUNT
10-28 Truck #802	17.38	Ton(s) Disposal Fees	# 182242	45.00	782.10
	20	Ton(s) Waste Hauling Charges (20 ton min.)		14.50	290.00
10-28 Truck #802	19.41	Ton(s) Disposal Fees	# 182297	45.00	873.45
	20	Ton(s) Waste Hauling Charges (20 ton min.)		14.50	290.00
10-28 Truck #802	22.44	Ton(s) Disposal Fees	# 182331	45.00	1,009.80
	22.44	Ton(s) Waste Hauling Charges (20 ton min.)		14.50	325.38
		PA. 6% Sales Tax		6.00%	0.00
<div>REMOVED FOR REMITTANCE DATE 11/4/16 BY 04-427.459 Street Sweeping Disposal</div>					
1 1/2 per month added after 30 days.				<b>Total</b>	\$3,570.73



## ATTACHMENT # 15

INFORMATION ON ANNUAL TRAINING PROGRAM







**LOWER ALLEN TOWNSHIP**  
**MS4 TRAINING PROGRAM**  
February 23, 2017                      10:00 AM

**NPDES Phase 2 MS4 Permit**  
**Good Housekeeping/Pollution Prevention Training**  
**Preparedness, Prevention and Contingency (PPC) Plan Training**

**I. NPDES Phase 2 MS4 Permit Good Housekeeping/Pollution Prevention Training**

1. Background information on MS4 Permit Program
  - a. Six Minimum Control Measures
    - i. Public Outreach and Education
    - ii. Public Participation/Involvement
    - iii. Illicit Discharge Detection and Elimination
    - iv. Construction Site Runoff Control
    - v. Post-Construction Runoff Control
    - vi. **Pollution Prevention/Good Housekeeping**
2. Status of MS4 Permits
3. Review of Training Focus from previous years:
  - a. Center for Watershed Protection (CWP), Manual 9, Municipal Pollution Prevention/Good Housekeeping Practices
    - i. 2011 MO-1: Hotspot Facility Management
    - ii. 2012 MO-3: Street Repair and Maintenance
    - iii. 2013 MO-4: Street Sweeping
    - iv. 2014 MO-5: Storm Drain Maintenance
    - v. 2015 MO-7: Park and Landscape Maintenance
    - vi. 2016 MO-8: Residential Stewardship
  - b. CWP recommended procedure:
    - i. Identify existing municipal operations
    - ii. Collect information about each operation
    - iii. Complete the Municipal Operations Analysis
    - iv. Focus Pollution Prevention/Good Housekeeping efforts
    - v. Investigate Municipal Operations and select PP/GH practices
    - vi. Implement PP/GH practices
    - vii. Evaluate progress in implementation
4. 2017 Training Focus: Outdoor Storage of Material
  - a. Lancaster Inter-Municipal Committee Good Housekeeping Guidance and BMP Manual, GH-21.
    - i. Objectives
    - ii. Description
    - iii. Considerations
    - iv. Recommendations and Protocols
    - v. Documentation
    - vi. Inspections and Measurements
5. Training Video: "Stormwater Strategies: Housekeeping", County of San Diego Department of Public Works



## **II. Preparedness, Prevention and Contingency (PPC) Plan Training**

### **1. Spill Leak Prevention and Response**

- a. Pre-Release Planning: Potential sources for accidental spills, leaks or leaching are described as follows:
  - i. Vehicle fueling facility. All fuel is stored in permitted underground tanks. Vehicles are fueled at a covered facility. This facility is in an area that drains to the stormwater detention basin. Any spill in this area would flow into the basin.
  - ii. Reuseable waste oil. Waste oil is stored in an above ground outdoor tank until it is recycled in the waste oil furnace inside the building. Any spill in this area would pass into the site stormwater collection system and eventually to the stormwater detention basin.
  - iii. Non-reuseable waste oil is stored in an underground waste oil tank outside the maintenance building. Any spill inside the building would pass through the building's oil separator with flow control.
  - iv. Salt. Road deicing salt is stored in a covered building. Loading operations occur in the area immediately in front of the building. Runoff in this area drains into a stormwater detention basin that has no discharge. Stormwater is slowly infiltrated into the groundwater, allowing salt to settle out and remain in the basin.
- b. Material Compatibility: None of the onsite materials are known to adversely react with each other.
- c. Inspection and Monitoring Program:
  - i. Routine general inspections of the site occur on a daily basis.
  - ii. The underground fuel storage tanks are equipped with monitoring devices, and an alarm system is automatically activated. Inspections are conducted in accordance with the underground storage tank permit.
  - iii. Fuel dispensing equipment is inspected for proper operation.
- d. Preventive Maintenance:
  - i. All vehicles and equipment that operate from the site are inspected and maintained through a preventive maintenance program run by the Township's Fleet Management division.
- e. Housekeeping Program:
  - i. Materials other than those bulk materials previously listed are stored securely and neatly within the maintenance building.
  - ii. A conscious effort is made by all employees to handle materials with care to prevent spillage.
  - iii. In the event that an accidental spill or leak does occur, employees are advised to implement proper cleanup procedures as soon as possible.
- f. Security:
  - i. Equipment is stored within the locked maintenance building during non-working hours.
  - ii. A locked gate secures the yard waste recycling storage and processing area during non-working hours.
- g. External Factor Planning:
  - i. All materials are stored in such a manner that external factors such as power outages, storms, etc. would not cause a spill or leak.



h. Employee Training Program:

- i. The Township Public Works department has a Safety Manual. All employees that work on site are trained in the safe performance of their work, in accordance with the Manual.
- ii. Safety Meetings are periodically conducted with all Public Works employees to provide detailed training regarding specific operations.

2. **Countermeasures**

a. Countermeasures to be Undertaken

- i. In the event of an incident, employees will utilize the County 911 system to summon appropriate assistance.
- ii. The Township has in place an All Hazards Emergency Response Plan. This plan will be activated through the Township Emergency Operations center on an as-needed basis.
- iii. The All Hazards plan contains resource lists and contact information for resources that may be needed in the event of an incident at the facility.

b. Communications and Alarm Systems

- i. Employees maintain contact through the use of mobile and portable two-way radios. Notification of an emergency can be made to all employees using these radios.

c. Evacuation Plan

- i. Emergency exit plans are posted throughout the maintenance building in accordance with the International Fire Code.

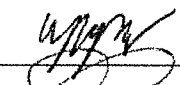


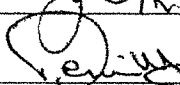
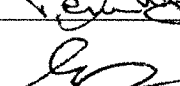


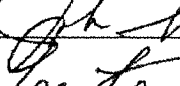
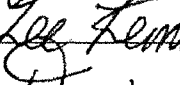
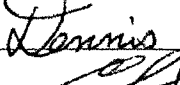

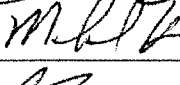
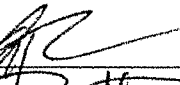
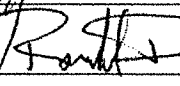
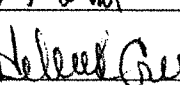
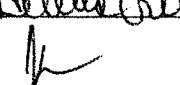
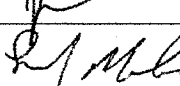
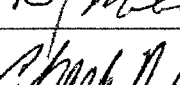
d. Emergency Equipment Available for Response

- i. Portable fire extinguishers are located throughout the maintenance building, in accordance with the International Fire Code.
- ii. Additional response equipment is available from the Public Safety Department, upon notification that such services are required.

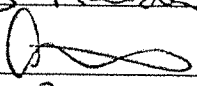


LOWER ALLEN TOWNSHIP  
ATTENDANCE

NPDES MS4 ANNUAL TRAINING  
MCM #6: POLLUTION PREVENTION/GOOD HOUSEKEEPING  
February 23, 2017 10:00 AM

NAME	SIGNATURE	MUNICIPALITY/DEPARTMENT
William J. Yeagley		Lower Allen Twp.
Scot Emerson		Lower Allen Twp.
JOHN EBY		" " "
DENNIS S MCGEE		LEMOYNE BOROUGH
Greg Hertle		monroe twp.
Alan Chonster		" "
John Storm		Monroe Twp.
Lee Heinawever		Monroe Twp.
Dennis Nailor		monroe Twp
Chad Yohe		East Pennsboro twp
Mike Kramer		EAST Pennsboro Twp
Jared Camp		East Penn
Ronald Dierich		East Pennsboro Twp.
Helen Grunden		Lower Allen
John Hackman		North Middleton Twp
Randy Marshall		N M T
Charles Minich Jr		North Middleton twp
DAVID SHERMAN		NORTH middlen twp



NAME	SIGNATURE	MUNICIPALITY/DEPARTMENT
Zachary Zobe	Zachary L Zobe	North Middleton Twp
Doug Reeder	Doug Reeder	North mtd p25 Ton Twp
Corisa Kromen		Lower Allen
Bob NAILOR	Bob Nailor	LA
Bryan Harshbarger	by Har	LA
Ken miller	Ken miller	Marysville
JEFF BREWBAKER	Jeff Brewbaker	LA
James Chan	James Chan	LA
Ben Peters	Ben Peters	LA
Megan McVance	Megan McVance	Upper Allen Twp
Allison Funn	Allison Funn	Upper Allen Twp
Richard Lehigh	Richard Lehigh	Lower Allen Twp.
SCOTT AUSTRIKURT	Scott Austrikurt	Lower Allen Twp.
BILL TURPICE	Bill Turpice	E.P. Township
Mark C. Krebs	Mark C. Krebs	E.P. Twp
Scott Harbold	Scott Harbold	LA
Barry Zook	Barry Zook	LA
Nicole Neals	Nicole Neals	Borough of Carlisle
Shane Ritter	Shane Ritter	Borough of Carlisle
Ralph Martin	Ralph Martin	"
Tom STAMBAUGH	Tom Stambaugh	LAT
Marshall Quisenberry	Marshall Quisenberry	LAT



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**LOWER ALLEN TOWNSHIP**  
**MS4 TRAINING PROGRAM**  
February 23, 2017                      10:00 AM

**NPDES Phase 2 MS4 Permit**  
**Good Housekeeping/Pollution Prevention Training**  
**Preparedness, Prevention and Contingency (PPC) Plan Training**

**I.     NPDES Phase 2 MS4 Permit Good Housekeeping/Pollution Prevention Training**

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  - a. Six Minimum Control Measures
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    - iv. Construction Site Runoff Control
    - v. Post-Construction Runoff Control
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    - v. 2015    MO-7: Park and Landscape Maintenance
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    - v. Investigate Municipal Operations and select PP/GH practices
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  - a. Lancaster Inter-Municipal Committee Good Housekeeping Guidance and BMP Manual, GH-21.
    - i. Objectives
    - ii. Description
    - iii. Considerations
    - iv. Recommendations and Protocols
    - v. Documentation
    - vi. Inspections and Measurements
5. Training Video: "Stormwater Strategies: Housekeeping", County of San Diego Department of Public Works



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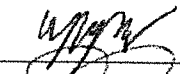
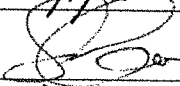

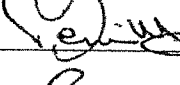

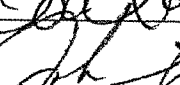
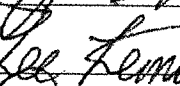
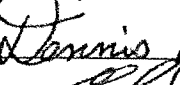

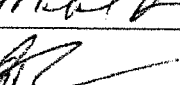
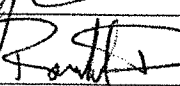
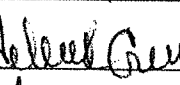

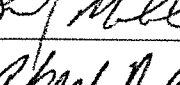
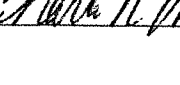
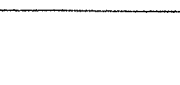

d. Emergency Equipment Available for Response

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LOWER ALLEN TOWNSHIP  
ATTENDANCE

NPDES MS4 ANNUAL TRAINING  
MCM #6: POLLUTION PREVENTION/GOOD HOUSEKEEPING  
February 23, 2017 10:00 AM

NAME	SIGNATURE	MUNICIPALITY/DEPARTMENT
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Alan Chonster		--
John O'Zany		Monroe Twp.
Lee Heineweaver		Monroe Twp.
Dennis Nailor		monroe Twp
Chad Yohe		East Pennsboro twp
Mike Kramer		EAST Pennsboro Twp
Jared Comp		East Penn
Ronald Dierich		East Pennsboro Twp.
Helen Grundan		Lower Allen
John Hackman		North Middleton Twp
Randy Marshall		NMT
Charles Minichie		North Middleton twp
DAVID SHERMAN		NORTH Middleton twp



[illegible]



# ATTACHMENT # 16

LOWER ALLEN TOWNSHIP  
STORMWATER MAP



