Federal Regulations

- Develop, implement, and enforce a program to detect and eliminate illicit discharges into the MS4.
- Develop a storm sewer system map, showing the location of all outfalls and the names and locations of all surface waters of the Commonwealth that receive discharges from those outfalls.
- To the extent allowable under State or local law, effectively prohibit, through ordinance, or other regulatory mechanism, non-stormwater discharges into your storm sewer system and implement appropriate enforcement procedures and actions.
- Develop and implement a plan to detect and address non-stormwater discharges, including illegal dumping, to your system.
- Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste.
Illicit Discharge Detection and Elimination

• Department of Environmental Protection

  • Best Management Practices (BMPs) and Measurable Goals are to be implemented and achieved:

    1. Develop, implement and maintain a written Public Education and Outreach Program
    2. Develop procedures for identifying priority areas, screening outfalls, eliminating illicit discharges
    3. Develop and maintain a map of regulated small MS4
    4. Conduct outfall field screening inspections
    5. Stormwater management ordinance includes prohibition of non-stormwater discharges
Illicit Discharge Detection and Elimination (IDD&E)

Written Plan

• Identify Procedures
  • Priority Area
  • Screening outfall
  • Determine source of an illicit discharge
  • Eliminate illicit discharge
  • Gaining access to private property
  • Addressing complaints from public
Illicit Discharge Detection and Elimination (IDD&E)

Develop and Maintain Maps

• Urbanized Area Boundaries
• Location of Outfalls (Observation Points)
• Names of surface waters
• Entire storm sewer collection system including privately-owned components
MS4 Outfall Map

2013 NOI
148 Outfalls

2016
658 Outfalls
MS4 Outfall Map
MS4 Outfall Map
Dry Weather Screenings

Definitions/Notes:

Dry Weather Sampling – 72 hours necessary after a significant rainfall.

Elicit Discharge – release of non-stormwater to stormwater drainage system.

Visible Observations – color, odor, turbidity, sheen/scum.

Testing – water temperature, pH, total chlorine, total copper, total phenol, detergents/surfactants.

Other Observations – Floatables, vegetative growth, stains, settled solids, suspended solids, foam, oil, salts, acidity, conductivity, hardness, other abnormal conditions.

Various Ways to Find/Identify the Source – dye-testing buildings, dye or smoke testing buildings at time of sale, trace discharge upstream, employ certification program that shows that buildings have been checked for illicit connections, implement an inspection program of existing septic systems, using video to inspect storm sewers.

Land Use – Residential, commercial, industrial, agricultural.

Receiving Waters – Brush Creek, Wolfe Run Creek, Brookneck Creek.

Public Complaint – open text.

Hours/Days after Rainfall – numeric.

Color – clear, red, yellow, brown, green, grey, other.

Odor – none, musty, sewage, rotten eggs, sour milk, other.

Turbidity – low, medium, high.
Dry Weather Screenings

Outfalls screened at least once during permit and inspected for:

• Color
• Odor
• Floating solids
• Scum
• Sheen
• Substances that result in observed deposits in the surface water
**Dry Weather Screening Form**

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>OUTFALL #</td>
<td></td>
</tr>
<tr>
<td>TIME</td>
<td></td>
</tr>
<tr>
<td>TIME SINCE LAST RAIN</td>
<td>24 Hours</td>
</tr>
<tr>
<td>QUANTITY OF LAST RAIN</td>
<td>50.1 Inches</td>
</tr>
<tr>
<td>INSPECTION YEAR</td>
<td></td>
</tr>
<tr>
<td>SITE DESCRIPTION</td>
<td></td>
</tr>
<tr>
<td>LOCATION (technical description)</td>
<td></td>
</tr>
<tr>
<td>STRUCTURE TYPE</td>
<td>OPEN CHANNEL</td>
</tr>
<tr>
<td>DOMINANT WATERSHED LAND USE</td>
<td></td>
</tr>
<tr>
<td>HOUSEHOLD, COMMERCIAL, INDUSTRIAL, RESIDENTIAL, UNKNOWN, OTHER</td>
<td></td>
</tr>
<tr>
<td>FLOW ESTIMATE</td>
<td></td>
</tr>
<tr>
<td>WATER FLOW OBSERVED</td>
<td>NO</td>
</tr>
<tr>
<td>IF YES, PLEASE ANSWER b-e BELOW</td>
<td></td>
</tr>
<tr>
<td>a. WIDTH OF WATER surface</td>
<td></td>
</tr>
<tr>
<td>b. APPROXIMATE DEPTH OF WATER</td>
<td></td>
</tr>
<tr>
<td>c. APPARENT FLOW, GALLONS PER SECOND</td>
<td></td>
</tr>
<tr>
<td>d. FLOW RATE (gallons per second)</td>
<td></td>
</tr>
<tr>
<td>e. FLOW RATE (gallons per second)</td>
<td></td>
</tr>
<tr>
<td>VISUAL OBSERVATIONS</td>
<td></td>
</tr>
<tr>
<td>IMAGE PHOTO REVIEW</td>
<td>NO</td>
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<tr>
<td>o. (Roll and Photo Number)</td>
<td></td>
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<tr>
<td>ODOR</td>
<td></td>
</tr>
<tr>
<td>None</td>
<td>Musty</td>
</tr>
<tr>
<td>COLOR</td>
<td></td>
</tr>
<tr>
<td>Clear</td>
<td>Red</td>
</tr>
<tr>
<td>CLARITY</td>
<td></td>
</tr>
<tr>
<td>Clear</td>
<td>Cloudy</td>
</tr>
<tr>
<td>FLOATABLES</td>
<td></td>
</tr>
<tr>
<td>None</td>
<td>Oily</td>
</tr>
<tr>
<td>DEPOSITS</td>
<td></td>
</tr>
<tr>
<td>None</td>
<td>Sediments</td>
</tr>
<tr>
<td>VEGETATION COND.</td>
<td></td>
</tr>
<tr>
<td>None</td>
<td>Normal</td>
</tr>
<tr>
<td>STRUCTURAL COND.</td>
<td></td>
</tr>
<tr>
<td>Normal</td>
<td>Concrete Cracking</td>
</tr>
<tr>
<td>BIOLOGICAL</td>
<td></td>
</tr>
<tr>
<td>MOSQUITO LARVAES</td>
<td></td>
</tr>
<tr>
<td>BACTERIA/VIRUS</td>
<td></td>
</tr>
<tr>
<td>OTHER</td>
<td></td>
</tr>
<tr>
<td>FIELD ANALYSIS</td>
<td></td>
</tr>
<tr>
<td>WATER TEMP</td>
<td>°C</td>
</tr>
<tr>
<td>CHLORINE (Total)</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td></td>
</tr>
<tr>
<td>ALKALINITY</td>
<td></td>
</tr>
<tr>
<td>DETERGENTS</td>
<td></td>
</tr>
<tr>
<td>WAS A LABORATORY SAMPLE COLLECTED?</td>
<td>NO</td>
</tr>
<tr>
<td>(If you observe any Sherman of foul odor)</td>
<td></td>
</tr>
<tr>
<td>COMMENTS</td>
<td></td>
</tr>
<tr>
<td>DATA SHEET FILLED OUT BY</td>
<td></td>
</tr>
<tr>
<td>DATE</td>
<td></td>
</tr>
</tbody>
</table>
Site Inspections
Site Inspection Forms

Typical Initial Inspection by Codes or Engineering Department

Inspection by Waterworks Coordinator
Violation Notice

NOTICE OF VIOLATION

CONTROL NO. XXX

YOU ARE IN VIOLATION OF THE CODE OF CRANBERRY TOWNSHIP AS SPECIFIED BELOW:

A. Name(s) and Mailing Address(es) of Owner/Violator(s):

XXXXX

B. Location of Property in Violation:

Street Address: XXX

Tax Parcel ID#: XXXX

Zoning District: XXX

C. Date & Time of Violation: XXXXXX

D. Details of Violation:

XXXXXX

E. Code of the Township Section(s) and Description of Requirement(s) not met:

XXXXXXX

F. You shall commence compliance within XX (X) days from receipt of this Notice by obtaining the required inspections and by addressing all issues to bring into compliance with the code, resulting in the issuance of the Certificate of Occupancy and CEASE OR CURE VIOLATION within thirty (30) days from receipt of this Notice by obtaining the required inspections and by addressing all issues to bring the single family residence into compliance with the code. Failing to comply may result in the issuance of a Certificate of Occupancy. If you fail to comply, Criminal enforcement action may be taken against you. See Section(s) below:

G. I verify that the facts set forth in this Notice are true and correct to the best of my knowledge and belief.

XXXXXXX

XXXXXXX

H. I hereby acknowledge receipt of this Notice by signing and returning same to Cranberry Township Department of Community Development, 2525 Rochester Road, Suite 400, Cranberry Township, PA 16066.

__________

Signature

__________

Title

__________

Date

Certified Mail Receipt No.: XXXXXXXX

via regular mail

SANCTIONS: $1,000.00 per day maximum plus court costs and reasonable attorney fees.

High Priority Problems or Unresponsive Action from Owner
Information Stored in Digital and/or Paper Form

Munis Software Package (Tyler Technology)

- Work Orders assigned to Staff
- Property Information

Township Property File Room or Engineering Departments MS4 Program Designated Shelf
Future Requirements

Impaired Streams

- Pollution Reduction Plan
- Mapping Drainage Area
- Determine Land Use
Mapping Impervious Surface Area
Questions
MCM#4 Construction Site Stormwater Runoff Control

Federal Regulations

• Develop, implement, and enforce a program to reduce pollutants in any stormwater runoff to your small MS4 from construction activities that result in a land disturbance of greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale that equals one acre or more.

• Develop and implement an ordinance or other regulatory mechanism to require erosion and sediment controls, as well as sanctions to ensure compliance, to the extent allowable under State or local law.

• Require construction site operators to implement appropriate erosion and sediment control best management practices (BMPs).

• Develop and implement requirements for construction site operators to control waste at the construction site that may cause adverse impacts to water quality. These wastes can include discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste.

• Develop and implement procedures for site plan review which incorporate consideration of potential water quality impacts.

• Develop and implement procedures for site inspections and enforcement of control measures.
Construction Site Stormwater Runoff Control

• Department of Environmental Protection
  • Best Management Practices (BMPs) and Measurable Goals are to be implemented and achieved:
    1. Develop, implement and maintain a written how will coordinate with DEP’s NPDES Construction Stormwater Permitting Program
    2. Enforce the requirement of implementation of erosion and sediment control
    3. Requirements for construction site operators to control waste at construction site
    4. Procedures for addressing public inquires and concerns on local construction activities
Construction Site Stormwater Runoff Control

Public and Private Improvement Code (PPIC)

- Stormwater Management Regulations
  - In accordance with 25 Pa. Code Chapter 102
    - Obtain a NPDES Permit for disturbance over an acre
      - Butler County Conservation District
    - Obtain a grading permit for disturbance over 1,000 sq. ft. or four feet depth
  - Applicant provide a plan to control erosion
Construction Site Stormwater Runoff Control

Typical Land Developments Projects

Rely on DEP’s Program for Issuing NPDES Permit for Stormwater Discharges
Land Development Projects with NPDES Permit

- BCCD Performs a Pre Construction Meeting
- Township May Perform Random Inspections
- Township and/or BCCD addresses public complaints during construction
- BCCD Performs Post Construction Permit Closeout Inspection
During Construction Phase

• Under NPDES Permit
  • Inspection (Visual Site Inspection Report)
    • Weekly
    • Within 24 hours after each measureable stormwater event
  • Licensed Professional or a designee shall be on site and be responsible for oversight of critical stages of implementation of the approved PCSM Plan
# Monthly Tracking of Open Grading Permits

## Open Grading Permit Summary

<table>
<thead>
<tr>
<th>App #</th>
<th>Work</th>
<th>Address</th>
<th>App Date</th>
<th>Issue Date</th>
<th>NPOES Expire Date</th>
<th>Days Remaining</th>
</tr>
</thead>
<tbody>
<tr>
<td>10024</td>
<td>DUTILH ROAD OFFICE DEVELOPMENT GRADING</td>
<td>47 DUTILH RD</td>
<td>1/16/2015</td>
<td>3/13/2013</td>
<td>11/1/2019</td>
<td>1187</td>
</tr>
</tbody>
</table>

**App Role:** Applicant Info
**Name:**

## Active Grading Applications

<table>
<thead>
<tr>
<th>App #</th>
<th>Work</th>
<th>Address</th>
<th>App Date</th>
<th>Issue Date</th>
<th>NPOES Expire Date</th>
<th>Days Remaining</th>
</tr>
</thead>
<tbody>
<tr>
<td>10582</td>
<td>PARK PLACE PHASE 2 19.5 ACRES</td>
<td>0 KETTLECREEK DR</td>
<td>2/13/2013</td>
<td>3/14/2013</td>
<td>10/5/2019</td>
<td>1160</td>
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</table>

**App Role:** Applicant Info
**Name:**

## Closed Grading Applications

<table>
<thead>
<tr>
<th>App #</th>
<th>Work</th>
<th>Address</th>
<th>App Date</th>
<th>Issue Date</th>
<th>NPOES Expire Date</th>
<th>Days Remaining</th>
</tr>
</thead>
<tbody>
<tr>
<td>10767</td>
<td>KIDS CASTLE GRADING</td>
<td>34 BURKE RD</td>
<td>4/18/2013</td>
<td>1/1/2019</td>
<td></td>
<td>2915518</td>
</tr>
</tbody>
</table>

**App Role:** Applicant Info
**Name:**
SPC’s Water Resource Center Workshop
MS4 – Minimum Control Measure #5

August 23, 2016
Federal Regulations

- Develop, implement, and enforce a program to address stormwater runoff from new development and redevelopment projects that disturb greater than or equal to one acre, including projects less than one acre that are part of a larger common plan of development or sale, that discharge into your small MS4. Your program shall ensure that controls are in place that would prevent or minimize water quality impacts.

- Develop and implement strategies which include a combination of structural and/or non-structural best management practices (BMPs) appropriate for your community.

- Use an ordinance or other regulatory mechanism to address post-construction runoff from new development and redevelopment projects to the extent allowable under State, Tribal or local law.

- Ensure adequate long-term operation and maintenance of BMPs.
Post-Construction Stormwater Management

• Department of Environmental Protection

  • Best Management Practices (BMPs) and Measurable Goals are to be implemented and achieved:

    1. Develop, implement and maintain a written plan how to address requirements
    2. Enforce the requirement of implementation of structural and non-structural BMPs
    3. Ensure that controls are installed that prevent or minimize water quality impacts
    4. Procedures for enforce ordinance
    5. Encourage use of Low Impact Development
    6. Ensure adequate operation of post-construction management BMPs
Stormwater BMPs Management

• Construction Phase
  • Butler County Conservation District
    • NPDES Permit
      • Requires qualified individual to inspect BMPs during construction

• Post Construction Phase
  • Township requires As-Built report and drawings
  • Annual Notice Sent to HOA and discussed during HOA Forum
Construction Site Stormwater Runoff Control

Land Development Projects under an acre but required a Small Project Permit

• Township Issues a permit through planning department

• Township or BCCD address publics complaints during construction

• Township Performs Post Construction Permit Closeout Inspection
Small Project Flow Chart

5,000 sq. ft. to 1 acre
Post-Construction Stormwater Runoff Management

Township Tracking BMPs

Projects approved since March 10, 2003
Township Tracking BMPs

Required Information

• Name
• Address
• Phone Number
• Type of BMP
• Year Installed
Current Township Ordinance - Inspections

• Inspection of BMPs (Landowner) 17-317
  • Inspected according to inspection schedule
  • Township may require copies of inspection reports
  • If inspection not conducted Township may conduct such inspection and charge owner appropriate fees.
DEP Model Ordinance - Inspections

• Minimum Inspection of BMPs (Landowner)
  • Annual for the first 5 years
  • Once every 3 years thereafter
  • During or immediately after cessation of a 10-year or greater storm

• Written Inspection Report
  • Submitted to Municipality within 30 days following completion of the inspection
Questions
SPC’s Water Resource Center Workshop
MS4 – Minimum Control Measure #6

August 23, 2016
MCM#6 Pollution Prevention/Good Housekeeping For Municipal Operations

Federal Regulations

• Develop and implement an operation and maintenance program that includes a training component and has the ultimate goal of preventing or reducing pollutant runoff from municipal operations.

• Provide employee training to prevent and reduce stormwater pollution from activities such as parks and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance.
Pollution Prevention/Good Housekeeping for Municipal Operations

• Department of Environmental Protection
  • Best Management Practices (BMPs) and Measurable Goals are to be implemented and achieved:
    1. Identify and document all facilities and activities that have potential for generating runoff to regulated MS4
    2. Develop, implement and maintain a written operation and maintenance program
    3. Develop and implement a employee training program
<table>
<thead>
<tr>
<th>Event</th>
<th>April</th>
<th>May</th>
<th>June</th>
<th>July</th>
<th>August</th>
<th>September</th>
<th>October</th>
<th>November</th>
<th>December</th>
<th>January</th>
<th>February</th>
<th>March</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Annual Progress Report</td>
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<tr>
<td>2. Staff Training- Mass Water</td>
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<tr>
<td>3. Report to the Mayor</td>
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<td>4. Public Outreach</td>
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<td>5. MSA Poster and Handout at School Year- Closing</td>
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<tr>
<td>6. Staff Training - New Water Work</td>
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<td>7. Public Outreach</td>
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<tr>
<td>8. Notice for Equipment Operations</td>
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<tr>
<td>9. Notice to Home Owner Associations</td>
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<tr>
<td>10. Certification Training</td>
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<td>11. Staff Training - New Water Work</td>
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<td>12. Staff Training - New Water Work</td>
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<td>13. Staff Training - New Water Work</td>
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<td>14. Staff Training - New Water Work</td>
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</tr>
</tbody>
</table>
Pollution Prevention / Good Housekeeping

• Develop and Implement an O&M Program
  • Tracking Public Works Daily Operation
    • Street Sweeping
    • Storm Sewer Repairs and Cleaning
    • Fuel Station Inspection
    • Earth disturbance Activities
  • Training
  • Facility Inspection
  • Township Maintained BMPs Inspection
Tracking Public Works Daily Operation

Reporting on Work Orders

<table>
<thead>
<tr>
<th>Activity</th>
<th>Activity Desc</th>
<th>WO #</th>
<th>Description</th>
<th>Rec Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>M54 CATCHBASIN</td>
<td>WORK PREVIOUSLY COMPLETED MS4 CATCHBASIN</td>
<td>220601</td>
<td>0616 Peters Rd - clean out 4 basins that are full of silt. Inspect psy contractor using sewer jet.</td>
<td>7/4/2016</td>
</tr>
<tr>
<td>M54 STRILMLEAE</td>
<td>M54 STRILMLEAE</td>
<td>220602</td>
<td>2292 Powell Rd - drain out the catch basin near this address. Inspect pipe to use sewer jet.</td>
<td>5/24/2016</td>
</tr>
<tr>
<td>M54 STRILMLEAE</td>
<td>M54 STRILMLEAE</td>
<td>220603</td>
<td>131 Hunter Dr - drain out storm sewer basin. Inspect pipe using sewer jet.</td>
<td>5/24/2016</td>
</tr>
<tr>
<td>M54 STRILMLEAE</td>
<td>M54 STRILMLEAE</td>
<td>220604</td>
<td>Commons at Ridge Park needs restored where washout and erosion have begun. Email: Ronald, Rich <a href="mailto:ronald@elmhurstgroup.com">ronald@elmhurstgroup.com</a> and Hobson Jim <a href="mailto:jhobson@elmhurstgroup.com">jhobson@elmhurstgroup.com</a> when work is scheduled.</td>
<td>6/15/2016</td>
</tr>
<tr>
<td>M54 STRILMAINT</td>
<td>M54 STRILMAINT</td>
<td>220605</td>
<td>1992 Gandhi Rd - inspect the 15” main pipe in front of this address to try to locate the outlet. Currently, the outlet is covered and can’t locate. The inlet of the pipe is across from the above address.</td>
<td>5/24/2016</td>
</tr>
<tr>
<td>M54 STRILMAINT</td>
<td>M54 STRILMAINT</td>
<td>220606</td>
<td>Mennonite at Brandeis RD - inspect storm sewer line using Inspect Pipe Inspection camera.</td>
<td>5/24/2016</td>
</tr>
<tr>
<td>M54 STRILMAINT</td>
<td>M54 STRILMAINT</td>
<td>220607</td>
<td>2208 Rochester Rd - inspect the storm line in front of the admin building, the line running parallel with Rochester Rd in the front parking lot.</td>
<td>5/24/2016</td>
</tr>
<tr>
<td>STORM COMPLAINT</td>
<td>STORM COMPLAINT</td>
<td>220608</td>
<td>SUSAN ALWERT IS CONCERNED THAT THE RETENTION POND BEHIND HER HOUSE CONTINUES TO FILL &amp; IS NOT DRAINING. SHE WOULD LIKE SOMEONE TO COME OUT AND LOOK AT IT TO MAKE SURE IT IS NOT CLOSED.</td>
<td>4/6/2016</td>
</tr>
</tbody>
</table>
Facility Inspection

• Annual Inspection of Maintenance Garages
  • Maintenance Facility
  • Graham Park
  • Golf Course
## Facility Inspection

**Cranberry Township Public Works - Maintenance Garage Facility**  
Annual Inspection Form

<table>
<thead>
<tr>
<th>Potential Pollutant Sources</th>
<th>Yes</th>
<th>No</th>
<th>Describe Action Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Material and waste storage areas are maintained in good condition to minimize discharge of pollutants.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B. Oil leaks or spills present are properly contained by drip pans or absorbents. Absorbents are picked up and properly disposed.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. Containers and aboveground storage tanks are in sound condition (check for corroded or damaged containers, supports and valves). (Also See Fuel Station Checklist)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D. Emergency Response Equipment in Township Vehicles.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E. Road salt is stored properly.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F. Vehicle and equipment maintenance areas in sound condition.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G. Grounds around site are stable and not showing signs of significant erosion.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H. Stormwater Basin is clear of debris and earth embankment is stable.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I. Stormwater Basin’s Outlet Structure is in good condition.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>J. Catch basins in good working order.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K. Dumpsters covered.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Public Works Maintenance Garage Fuel Station**  
Site Inspection Checklist

- Spill clean up instructions posted near pumps
- Emergency contact phone numbers posted near pumps
- No oil or gasoline puddle on site
- Spill absorbent material on site
- Spill clean up container on site including: gloves, broom, spade, absorbent mat
- Disposal container for used absorbent material on site
- Fire extinguisher on site
- No holes in overhang structure
- Additional comments:  

**MPDES M4 Permit - Minimum Control Measures: Pollution Preventer / Good Housekeeping**
Fuel Station – Spill Response Procedures
## Township Maintained BMPs Inspection

### Best Management Practice Facilities

<table>
<thead>
<tr>
<th>Number</th>
<th>Description</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Cranberry Highlands Hole 3</td>
<td>Wet Pond</td>
</tr>
<tr>
<td>2</td>
<td>Cranberry Highlands by Club House</td>
<td>Dry Pond</td>
</tr>
<tr>
<td>3</td>
<td>Cranberry Highlands Hole 12</td>
<td>Wet Pond</td>
</tr>
<tr>
<td>4</td>
<td>Cranberry Highlands Turfgrass Dr</td>
<td>Dry Pond</td>
</tr>
<tr>
<td>5</td>
<td>Freshcorn Rd</td>
<td>Underground Detention</td>
</tr>
<tr>
<td>6</td>
<td>North Water Tank</td>
<td>Underground Detention</td>
</tr>
<tr>
<td>7</td>
<td>North Boundary Park North</td>
<td>Dry Pond</td>
</tr>
<tr>
<td>8</td>
<td>North Boundary Park middle</td>
<td>Dry Pond</td>
</tr>
<tr>
<td>9</td>
<td>North Boundary Park South</td>
<td>Dry Pond</td>
</tr>
<tr>
<td>10</td>
<td>Graham Park Football</td>
<td>Underground Infiltration</td>
</tr>
<tr>
<td>11</td>
<td>Graham Park Soccer North</td>
<td>Underground Infiltration</td>
</tr>
<tr>
<td>12</td>
<td>Graham Park Soccer South</td>
<td>Underground Infiltration</td>
</tr>
<tr>
<td>13</td>
<td>Graham Park Fishing Pond</td>
<td>Wet Pond</td>
</tr>
<tr>
<td>14</td>
<td>Community Park Lindner Field</td>
<td>Wet Pond</td>
</tr>
<tr>
<td>15</td>
<td>Public Works Maintenance Garage</td>
<td>Dry Pond</td>
</tr>
<tr>
<td>16</td>
<td>Community Park Ernie Mashuda Dr</td>
<td>Dry Pond</td>
</tr>
<tr>
<td>17</td>
<td>EMS/Fire Station North</td>
<td>Dry Pond</td>
</tr>
<tr>
<td>18</td>
<td>EMS/Fire Station South</td>
<td>Dry Pond</td>
</tr>
<tr>
<td>19</td>
<td>Municipal Center South</td>
<td>Dry Pond</td>
</tr>
<tr>
<td>20</td>
<td>Municipal Center North</td>
<td>Dry Pond</td>
</tr>
<tr>
<td>21</td>
<td>Haing Fire Station</td>
<td>Dry Pond</td>
</tr>
<tr>
<td>22</td>
<td>Commonwealth Water Booster Station</td>
<td>Underground Detention</td>
</tr>
<tr>
<td>23</td>
<td>Hillmont Dr</td>
<td>Underground Detention</td>
</tr>
<tr>
<td>24</td>
<td>Graham Park Walking Trail (North Sect)</td>
<td>Vegetated-Swales &amp; Wetland</td>
</tr>
</tbody>
</table>
North Boundary Park BMPs Inspection Sheet

Kranberry Township – North Boundary Park (Detention Facilities)

Date: ____________________
Inspector: ____________________
Department: ____________________

History:
The North Boundary Park was constructed in the year 19__ on a 125 acre parcel. Three dry detention stormwater fishe were constructed to control surface water from the site. The basins outlet structure were designed to direct runoff from the main, parking lot, field, and areas, etc. Quarterly inspection procedures (CEM Manual – Appendix A) continue, and testing system inspection is provide on additional sheet.

Rating System:
Good – No Structural Deficiencies (No further action required during quarterly inspection)
Fair – Low Risk. Structural Deficiencies. (Further action recommended contact Engineering Department)
Poor – High Risk Structural Deficiencies. (Further action recommended contact Engineering Department)

1. Structural Condition (Concrete Detention, Metal Frame or Trash Rack Damaged) ____________________
2. Stability (Ground Settling, Structure Banking, etc.) ____________________
3. Volume Capacity (Sediment Buildup, Debris, Obstructions, etc.) ____________________
4. Preventions (Rocks, Rebar, etc.) ____________________
5. Other ____________________

Additional Comments: ____________________

Pond "A"  |  Pond "B"  |  Pond "C"
--- | --- | ---
1 | | |
2 | | |
3 | | |
4 | | |
5 | | |

Pond "A"  |  Pond "B"  |  Pond "C"  |  Pond "D"
--- | --- | --- | ---
1 | | | |
2 | | | |
3 | | | |
4 | | | |
5 | | | |

Pond "A"  |  Pond "B"  |  Pond "C"  |  Pond "D"  |  Pond "E"
--- | --- | --- | --- | ---
1 | | | | |
2 | | | | |
3 | | | | |
4 | | | | |
5 | | | | |

Pond "A"  |  Pond "B"  |  Pond "C"  |  Pond "D"  |  Pond "E"  |  Pond "F"
--- | --- | --- | --- | --- | ---
1 | | | | | |
2 | | | | | |
3 | | | | | |
4 | | | | | |
5 | | | | | |

Additional Comments: ____________________

CRANBERRY TOWNSHIP
Township Maintained BMPs Inspection

Township System Rain Data for
July 30, 2016

Total Rainfall

<table>
<thead>
<tr>
<th>Location</th>
<th>Rainfall (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wolfe Run</td>
<td>0.49</td>
</tr>
<tr>
<td>Franklin Acres</td>
<td>0.58</td>
</tr>
<tr>
<td>Brush Creek</td>
<td>0.08</td>
</tr>
<tr>
<td>Pennwood Place</td>
<td>0.50</td>
</tr>
</tbody>
</table>

7/30/2016
Township Projects
Operation and Maintenance Manual

• Maintenance Group (With Responsible Department)
  • Stormwater Collection and Conveyance
  • Roads, Highway and Parking Lots
  • Vehicle Fleets
  • Inspection of Twp.’s BMP Facilities
  • Construction Projects
  • Industrial and Commercial Activities
  • Flood Management Projects
Training Staff

• Public Works, Code, Operations, and Engineering

• Annual PSATS and 3 Rivers Wet Weather Conferences

• Webinars

• Youtube Video
  • Stormwater Strategies- Erosion & Sediment Control.mp4
  • Stormwater Strategies- Housekeeping.mp4
Training Staff

Cranberry Township MS4 Program

Good House Keeping (Public Works Staff Training 2014-2015)

This year’s training for Public Works Employees was achieved by showing a 14 minute training video produced to create awareness of proper maintenance procedures at a public works facility in San Diego, California. During our research we found this video addressing a lot of our current day to day operations. Last year’s training focused on refreshing the public works employees on the requirements for the Township 401 permit. This year’s training focused on practical, everyday operations and how to manage our work while minimizing the potential for pollutant discharge into the waters of the Commonwealth.

The video title and link is listed below:

Stormwater Strategies: Housekeeping

County San Diego

https://www.youtube.com/watch?v=0pBQ035Jl00

The YouTube video was produced to educate the San Diego Department of Public Works. The 14 minute video includes instruction and recommendations from Tony Barry (Civil Engineer with County of San Diego) and Christine Sloan (Project Coordinator with Watershed Protection Agency).

Video shown to Public Works Employees on 1/14/2013. Stan DB Sheet Attached
Questions