Sample MCM 6 Related Information

- Operations & Maintenance (O&M) Plan/Inspection Forms
- Stormwater Pollution Prevention Plan (SWPPP)
- Training Forms
- MS4 Management Technology Solutions
- Helpful Links/Resources
- Funding Sources



MCM #6: Good Housekeeping for Municipal Operations

MCM #6 requires MS4s to prepare an inventory of municipal facilities and activities, and to develop a stormwater "Operations & Maintenance

Plan" for each facility/activity on the invecontent of both will vary depending on the requirement could be satisfied. DEP prepared to the inventory and "BMP #2" (

MS4s that choose to use the model shoul what is on the model. The details on the facilities/activities on the inventory, whice conceptual, and therefore in need of what

BMP #1: Inventory of Facilities/Activities

Facility/Activity	Storm Sewer System impact	Discharge To	O&M Responsibilities (all include "signage")	Attachment
			oil management, inlets, fueling, vehicle wash	
Public works yard	inlets, piping, basin	Spring Creek	water	1
Streets	inlets, swales	Spring and Trout Creek	sweeping, inlets	2
SW conveyances	pipes, swales, ditches	Spring and Trout Creek	cleaning	3
Buildings	inlets, rain gardens	Spring Creek	inlets, rain gardens	4
Parking lots	inlets	Spring and Trout Creek	inlets	5
Parks	inlets	Spring and Trout Creek	inlets	6
Wastewater				
plant	swale	Spring Creek	chemicals, vehicles, maintenance area, sludge	7
	***N/A outside the Borough:			
	Provide information to	1		
Transfer station	Clearview Township***			



BMP#2: O&M Actions (Detail)

Attachment #1: Public Works Yard

(Contact: John Smith, Yard Manager)

Responsibility	When and	Actions	Additional
	How Often?		Considerations
Clean Catch Basin	Each fall	o Haul to landfill.	Check after each major storm (> 3")
Fuel	Daily	 Ensure tanks are sound, have overflow protection, are protected from vehicle and forklift damage. 	
		o Label valves.	
		 Nozzies have auto shutoff. Auto shutoff for severed hoses. 	
		o Secondary containment.	l
		o Concrete fueling pad.	
		o Overhang roof structure.	
		 Spot-clean leaks and clean up used absorbent. 	l
		 Label drains to indicate where they flow. 	
		Report leaking vehicles.	
Wash Water	Daily	 Wash on grassy area or take to commercial car wash most of the time. Collect and dispose of vehicle wash 	
		water when chemical additives, solvents or degreasers are used. Allow no wash water to enter storm sewer	
		or stream.	
Road Salt and Grit	Daity	 Use grit mix suited to ambient temperature to minimize salt use 	
		o Keep rain off stored salt	
		o Calibrate spreaders	
		o Haul and store salt in dry weather	
		Sweep up spills around storage/loading area	l



Attachment #2: Streets

Contact: Dusty Rhodes, Streets Superintendent

Signage (for each activity below)	Daily			
Street Sweeping	Do twice in spring, mid-summer and fall. Check signs in	0	Post no-parking signs for street sweeping	
Storm inlets	spring. Inspect after each heavy rain. Clean inlets in fall, additionally if clogged	0	Haul clean-out materials to landfill Maintain stencils on inlets.	Use Bay Scouts for stencils

- *Provide similar details for Attachments #3-8.
- *IDDE and Staff training are additional, separate efforts.
- *Report satisfaction of above in Annual Reports to DEP.
- *Keep record of issues (like spills that were identified, cleaned up and repeats prevented). Don't try to say you never have spills.

Food for thought: A simple list of actions specifically tailored to the municipality, with an identified responsible party, is better than glossy generic materials that do not describe what you actually do and who is responsible for it.



POLLUTION PREVENTION/GOOD HOUSEKEEPING

FOR MUNICIPAL OPERATIONS:

A GUIDANCE DOCUMENT
OF
BEST MANAGEMENT PRACTICES
AND
INSPECTION CHECKLISTS





Erie County Department of Environment and Planning Division of Environmental Compliance Services



Operations & Maintenance Plan/Inspection Forms

VEHICLE/EQUIPMENT MAINTENANCE POLLUTION PREVENTION/GOOD HOUSEKEEPING PRACTICES

- 1. IDENTIFY IMPACTS TO/ON STORMWATER/RECEIVING WATERS (SURFACE WATERS)
 - Trace amounts of metals/hydrocarbons are found in materials (i.e. fuels, antifreeze, batteries, motor oils, grease, parts cleaning solvents) that are typically used in maintenance operations
- 2. PROBLEM EVALUATION: ASSESS IMPACT ON RECEIVING WATERS, PRIORITIZE
 - Toxicity
 - Biochemical oxygen demand
- 3. IDENTIFY (AND CHOOSE APPROPRIATE) SOLUTIONS (BMPs)
 - Conduct maintenance work indoors if work must be performed outside, guard against spillage of
 materials that could discharge to storm receivers
 - · Seal floor drains that discharge directly to the environment, if possible
 - Initiate single purpose use of vehicle bays dedicate one (or more) bays that have no (or sealed) floor drains for repairs/maintenance
 - Clean up spilled materials immediately, using "dry" methods
 - Install pretreatment systems (oil/water separators) where necessary in sewer lines to capture contaminants (oil, grit), and maintain as needed
 - Never leave vehicles unattended while refueling
 - Identify appropriate recycling/disposal options for wastes

4. INSPECTION PROCEDURES

- Inspect (for maintenance purposes) floor drain systems, oil/water separators
- Monitor "parked" vehicles/equipment for leaks

5. MAINTENANCE PROCEDURES

- Maintain a clean work area remove contaminants from floors, drains, catch basins, using "dry" methods
- Use non-hazardous cleaners. Use non chlorinated solvents instead of chlorinated solvents
- Repair or replace any leaking containers
- . Use steam cleaning /pressure washing instead of solvent for parts cleaning
- Store waste fluids in properly capped, labeled storage containers
 Store betteries in look proof compatible (i.e. non receive) containers
- Store batteries in leak-proof, compatible (i.e. non reactive) containers
- Rinse grass from lawn care equipment on permeable (grassed) areas
- Protect against pollution if outside maintenance is necessary (cover storm receivers, use secondary containment vessels, etc.)

6. ADVISORY

- Report petroleum spills (as necessary) to the NYSDEC (851-7220 or 1-800-457-7362)
- Refer to NYSDOT guidance information (<u>Environmental Handbook for Transportation Operations</u>)

VEHICLE AND EQUIPMENT MAINTENANCE/STORAGE AREA INSPECTION CHECKLIST Unit ID: Location COMPONENTS/ITEMS TO MAINTENANCE/REPAIRS PROBLEMS OBSERVED ACTION NECESSARY Leaks/spills ☐ Clean spill, repair leak. Truck/equipment Yes capture fluids in drip pan Improper amounts of product ☐ Recalibrate Salt/sand spreader Lawn care equipment Improper operation ☐ Inspect/repair Date of Inspection Name Frequency



Stormwater Pollution Prevention Plan (SWPPP)

Stormwater Pollution Prevention Plan

for:

Washington Suburban Sanitary Commission Damascus Wastewater Treatment Plant (WWTP) 23730 Log House Road Gaithersburg, Maryland, 20882 301-206-7940

SWPPP Contact(s):

Washington Suburban Sanitary Commission Tom Harshman Damascus Wastewater Treatment Plant (WWTP) 23730 Log House Road Gaithersburg, Maryland, 20882 301-206-7940

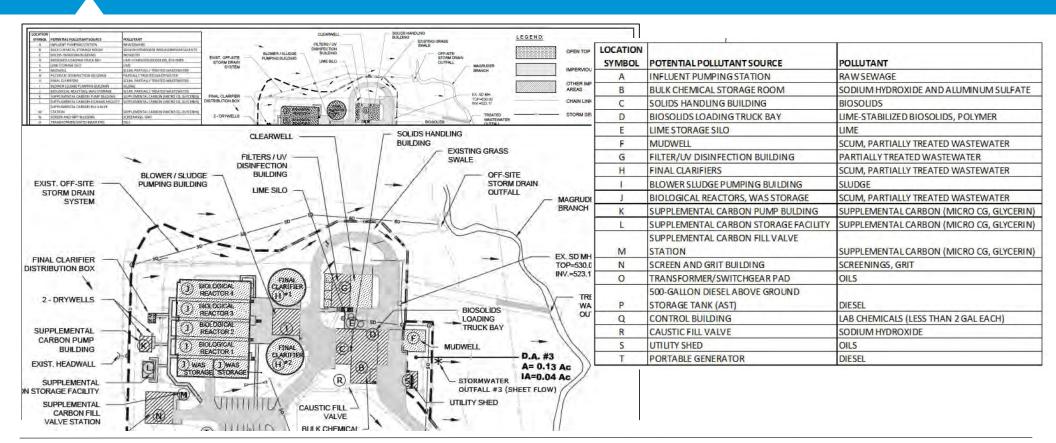
SWPPP Preparation Date:

August 2014

1.3 Stormwater Pol	Staff Names	Individual Responsibilities
Current Facility Staff	Plant Superintendent	Review SWPPP annually
Current members of the Stormwale		
table below. This table will be updat in the SWPPP by the job titles listed Chief Plant Operator		Main contact for SWPPP
Job Title		Manage SWPPP Team and delegate tasks
Plant Superintendent		Review SWPPP annually
Chief Plant Operator		Implement and monitor control measures/BMPs
Plant Engineering Supervisor		Track maintenance and corrective actions
Plant Operator Plant Operator		
Fiant Operator		Maintain control measures/BMPs
Stormwater Pollution Preven		 Identify new pollutant sources and maintain records of leaks, spills, or
Staff Names	The second second	other releases to the environment
Plant Superintendent •	Plant Engineering Supervisor	Review SWPPP annually
Chief Plant Operator		Update and revise SWPPP when necessary
	Plant Operator	Perform visual assessments, routine inspections, and comprehensive
		inspections as necessary
:		Maintain control measures/BMPs
		Take corrective action where required
Plant Engineering Supervisor •		
Plant Engineering Supervisor		Provide training to others on SWPPP
Plant Operator		Ensure spill response equipment is in good working order and
		materials are located near potential spill areas
		 Identify new pollutant sources and maintain records of leaks, spills, or
1		other releases to the environment
	Plant Operator	Take corrective action where required
		Ensure spill response equipment is in good working order and mater
Plant Operator		are located near potential spill areas



Stormwater Pollution Prevention Plan (SWPPP)





Training Forms

- Provide forms to show proof of training for all employees involved in pollution prevention or good housekeeping of a specific municipality/activity (renewed annually)
- Signed by instructor & participant of training
- Reviewed & approved by administrator





MS4 Management Technology Solutions

- CBI Systems MS4web permit manager
 - http://www.ms4web.com/MS4StormwaterSoftware/
 - **PA MS4Web™** is currently being piloted by municipalities in southeastern Pennsylvania and will soon be introduced in other parts of the state.
- Customized geodatabase ESRI
- Mobile applications
- Excel spreadsheets or Access database



Helpful Links/Resources

- EPA Pollution Prevention/Good Housekeeping for Municipal Operations
 - http://www.epa.gov/npdes/stormwater/menuofbmps/goodhousekeeping
- PADEP MS4 Resources
 - http://www.portal.state.pa.us/portal/server.pt/community/municipal_stormwater/21380/ms4_resources/1489647
- Novotney, Michael. Urban Restoration Manual No. 9: Municipal Pollution Prevention/Good Housekeeping Practices. Version 1.0. Center for Watershed Protection. Copyright 2008. Dated September 2008.
 - http://www.cwp.org/online-watershed-library/cat_view/64-manuals-and-plans/80-urban-subwatershed-restoration-manual-series



• SPC:

General reference for a wide range of water resources grants: http://www.spcregion.org/water/regs_grants.shtml

• PFNNVFST:

- Clean Water State Revolving Fund (CWSRF) administered by Pennsylvania Infrastructure Investment Authority (PENNVEST) http://www.pennvest.pa.gov/Information/Funding-Programs/Pages/Clean-Water-State-Revolving-Fund.aspx#.VhLeB2ddGUk
- American's Rivers' Initiative Green Loans for Green Reserve Funds Subsidized Low-Interest Loans to public entities for stormwater management for design, construction and rehabilitation.
- American Recovery and Reinvestment Act (ARRA) of 2009 http://www.pennvest.pa.gov/Information/Funding-Programs/Pages/ARRA-2009-Funding.aspx#. VhLd2GddGUk
 - 50% of the Grants must maximize green infrastructure)
- Green Initiative, ARRA Green Reserve and Growing Greener Grants http://www.pennvest.pa.gov/Information/Funding-Programs/Pages/Green-Initiatives.aspx#.VhLeSGddGUk



- Department of Community & Economic Development (DCED): http://community.newpa.com/programs/
 - Flood Mitigation Program http://community.newpa.com/programs/flood-mitigation-program-fmp/
 - Grants for projects \$50,000 \$500,000 planning & planning approvals are at owner's expense
 - H2O PA Flood Control Projects http://community.newpa.com/programs/h2o-pa-flood-control-projects/
 - Grants for construction, improvement, repair or rehabilitation of all or part of a flood control system projects \$500,000+
 - H2O PA Water Supply, Sanitary Sewer and Storm Water Projects:
 http://community.newpa.com/programs/h2o-pa-water-supply-sanitary-sewer-storm-water-projects/
 - Grants for projects \$500,000



- Department of Community & Economic Development (DCED) [cont.]: http://community.newpa.com/programs/
 - Pennsylvania Infrastructure Bank (PIB) Low-interest loans
 http://community.newpa.com/programs/pennsylvania-infrastructure-bank-pib/
 - Municipal Assistance Program http://community.newpa.com/programs/municipal-assistance-program-map/
 - Grants up to 50% of eligible cost)
 - Watershed Restoration & Protection Program (WRPP) http://community.newpa.com/programs/watershed-restoration-protection-program-wrpp/
 - Projects which involve the construction, improvement, expansion, repair, maintenance or rehabilitation of new or existing watershed protection BMPs – Maximum grant \$300,000 with 15% of total project cost



- Municipal/County Funds Refer to Municipal/County Websites
 - Community Block Grant Funds (CDBG) Public facility and planning activities including flood prevention/stormwater management/BMPs/drainage. Maintenance activities are not fundable. Benefit must be for low to moderate income persons/neighborhoods.
 - County Local Share Accounts (gaming funds) Preference is given to those who have other local or grant match funds.
 - Municipal Local Share Account Funds (gaming funds) Preference is given to those who have other local or grant match funds.
 - Marcellus Shale Funds
- Department of Conservation & Natural Resources (DCNR) https://www.grants.dcnr.state.pa.us/Dashboard/Grants#
 - Park Rehabilitation & Development Grants Green infrastructure solutions and BMPs can be part of the design of these facilities.
- Department of Environmental Protection (DEP)
 - Growing Greener Grants https://www.portal.state.pa.us/portal/server.pt/community/growing_greener/13958

