

Vincent Sapienza, PE Commissioner

Paul V. Rush, P.E. Deputy Commissioner Bureau of Water Supply prush@dep.nyc.gov

P.O. Box 358 Grahamsville, NY 12740 T: (845) 340-7800 F: (845) 334-7175 **USPS** Tracking No:

Ethan Sullivan MS4 Permit Coordinator Division of Water 4th Floor 625 Broadway Albany, NY 12233-3505

Re: New York City Department of Environmental Protection, Stormwater Pollution Prevention Tri-Annual Self-Assessment for East of Hudson Bureau of Water Supply Operations within the MS4 Area for permit #NYR20A529

Dear Mr. Sullivan

Pursuant to the requirements of the New York State Department of Environmental Conservation (NYSDEC) SPDES General Permit for Storm Water Discharges from Municipal Separate Storm Sewer Systems (MS4), we are transmitting to you the attached document as summarized below:

• Stormwater Pollution Prevention Self-Assessment for East of Hudson Bureau of Water Supply Operations within the MS4 Area for permit # NYR20A529

If you require any additional information or clarification, please do not hesitate to contact me at (914) 749-5344 or <u>brennerw@dep.nyc.gov</u>.

Sincerely,

William Brenner

William Brenner Compliance Manager, WTO QA Bureau of Water Supply

September 30, 2021

#### NEW YORK CITY DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WATER SUPPLY

# Stormwater Pollution Prevention Self-Assessment Of East of Hudson Bureau of Water Supply Operations within the MS4 Area

Part VIII.A.6.a.ii and Part VIII.a.6.g of NYSDEC General Permit GP-0-10-002

Required for New York State Department of Environmental Conservation SPDES General Permit for Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s) GP-0-15-003 Permit No. NYR20A529



Commissioner Vincent Sapienza, P.E.

Deputy Commissioner Paul V. Rush, P.E. Bureau of Water Supply

September 2021

New York City Department of Environmental Protection Stormwater Pollution Prevention Self-Assessment of Agency Operations

### I. Introduction

A self-assessment is required once every three years under Section VIII.A.6.a.ii of the General Permit for Stormwater Discharges from Municipal Separate Storm Sewers (MS4s), permit #GP-0-10-002. In addition, section VIII.a.6.g of the GP-0-10-002 states that during the 3-year program development period the covered entity must develop a stormwater pollution prevention program that describes pollution prevention priorities and management practices to be developed. The self-assessment is the most effective way to accomplish these goals.

The purpose of the self-assessment is to:

1) Determine the sources of pollutants potentially generated by the Agency's operations and facilities;

2) Evaluate the effectiveness of existing programs;

3) Identify the municipal operations and facilities that will be addressed by the municipal pollution prevention and good housekeeping program, if it has not done already;4) Provide a prioritized list of facilities and action items.

#### II. Self Assessment

#### A. Inventory of Existing Operations

To begin the MS4 Self-assessment, NYCDEP assessment staff provided a list of existing municipal operations (Table 1). This list includes the following information:

- Facility name
- Type of facility
- Location: Street address, town and county
- Reservoir that the facility is associated with
- Facility manager name and contact information

NYCDEP also provided a map of all facilities that was used for the self-assessment and is available at the office of Bill Brenner, NYCDEP BWS Sutton Office.

For the 2021 MS4 Stormwater Assessment, Bill Brenner and Ed Walters collaborated to evaluate our program development and compliance and to identify the facilities that had the most stormwater pollution potential, primarily Bureau of Water Supply (BWS) operational buildings and maintenance facilities. These facilities were selected for site visits and best management practice analysis from June through August 2021.

The BWS team inspected 35 facilities using a checklist developed by Kendall Storm Water Services, a contractor used in 2012. The checklists assist in data gathering

information at inspected locations. The analysis of municipal operations included activities that have the potential of generating stormwater pollution and assessment of current best management practices (BMPs) for each facility. Information about staff, equipment, and coordination/collaboration within NYCDEP departments was compiled and proved beneficial in our analysis. Comprehensive recommendations could then be made for best management practices to reduce the potential for stormwater pollution.

This MS4 Stormwater Assessment report includes checklists covering 35 facilities (Appendix 1). Each checklist asks for information about various pollution generating activities, as well as current best management practices. A summary of general notes and recommendations is provided on the page directly after each checklist. The checklists are organized in three groups geographically and by stormwater pollution potential topic as follows, (bulleted list shows the title of each checklist):

Group 1. Katonah Headquarters facilities, Cross River Reservoir facilities, Amawalk Reservoir facilities, Croton Reservoir facilities

- Building Maintenance Sheet 1 Katonah, Cross River, Amawalk, Croton
- Street, Bridge and Parking Lot Maintenance Sheet 1 Katonah, Cross River, Amawalk, Croton
- Vehicle/Equipment Maintenance Cross River Maintenance Facility
- Open Space, Streambank and Hydrologic Habitat Maintenance Sheet 1 Katonah, Cross River, Amawalk, Croton

Group 2. Boyds Corners Reservoir facilities, Croton Falls Reservoir facilities, Mahopac Wastewater Treatment Plant, West Branch Reservoir facilities

- Building Maintenance Sheet 2 Boyds Corners, Croton Falls, Mahopac WWTP, West Branch
- Street, Bridge and Parking Lot Maintenance Sheet 2 Boyds Corners, Croton Falls, Mahopac WWTP, West Branch
- Vehicle/Equipment Maintenance Carmel Field Maintenance Facility
- Open Space, Streambank and Hydrologic Habitat Maintenance Sheet 2 Boyds Corners, Croton Falls, Mahopac WWTP, West Branch

Group 3. Kensico Reservoir facilities, Eastview DEP Police Precinct, Pleasantville Alum Plant

- Building Maintenance Sheet 3 Kensico, Eastview, Pleasantville
- Street, Bridge and Parking Lot Maintenance Sheet 3 Kensico, Eastview, Pleasantville
- Open Space, Streambank and Hydrologic Habitat Maintenance Sheet 3 Kensico, Eastview, Pleasantville

Facilities that were not included in this assessment include the Hudson River Pump Station and facilities associated with the Diverting, Middle Branch, and Titicus Reservoirs. These facilities will be assessed later in 2021 or 2022.

#### **B.** Prioritized list of operations and recommendations

Those facilities in nearest proximity to the reservoirs, such as Shafts 10, 17 and 18, continue to use double and triple controls to ensure that pollution will not enter the reservoirs. For example, petroleum-fueling tanks for vehicles are double walled, have emergency shut off controls, and electronic leak detection. In the event of a spill, spill cleanup materials are near all vehicle fuel tanks.

Based on the self-assessment forms completed for this report the following is a draft list of operations that will be recommended for stormwater pollution prevention/good housekeeping efforts in the next 3-year cycle of projects and assessment activitities

#### GENERAL RECOMMENDATIONS FOR ALL COMPLEXES

<u>Stormwater management practice inventory</u> - An inventory of all stormwater management practices such as ponds, sand filters, bioretention, etc. is kept by Matt Giannetta, Chief of the Regulatory Engineering Programs for BWS. Mr. Giannetta's team of stormwater technical experts, scientists and engineers verify that the inventory includes all practices in the EOH MS4 area and detail parameters for all practices including but not limited to practice type, date constructed, location (lat/long), maintenance schedule, maintenance verification, and maintenance responsibility.

<u>Proper disposal of street sweepings</u> - Verify that when street sweepings are brought to the Catskill connector property they are stored away from any stream, lake or wetland and that spoil piles are covered if there is a potential for petroleum or other contamination in the material.

#### SPECIFIC RECOMMENDATIONS FOR INSPECTED FACILITIES

#### Building Maintenance - Sheet 1 - Katonah, Cross River, Amawalk, Croton

#### **Katonah District Office**

<u>Roof drains</u> - Roof leaders empty directly on to paved parking lot; stormwater then flows to eroding swale to west of driveway that empties into a tributary to the Muscoot Reservoir. Suggested temporary erosion control with riprap under laid with permeable filter cloth after the last assessment. Suggested repairs/upgrades were made to site. The improvement continues to contain building site runoff. A permanent solution might include directing roof leaders to bioretention, rain gardens, and/or permeable pavement near the building to absorb runoff on-site.

#### **Cross River Barn**

<u>Septic system</u> - There is a recurring problem with Stormwater infiltration into the septic

system at this location. The system is pumped out monthly. Staff are working too develop a plan/design to mitigate the problem. Since this facility is up on a hill near the reservoir, this is a potential pollution source.

<u>Housekeeping</u> – There have been past problems with storage on this site. Great improvements were made, and just basic cleanup and re-arranging have been the biggest contributing factor. The team staff have also been vigilant when it comes to maintaining this site.

#### Amawalk Barn

<u>Housekeeping</u> - Used vehicle batteries and fluorescent bulbs on second floor behind partition should be removed on a more frequent basis. This remains a difficult issue to keep ahead of.

#### Vehicle/Equipment Maintenance - Sheet 1 - Cross River Maintenance Facility

#### **Cross River Field Maintenance Facility**

<u>Solvents</u> – Management is considering executing a service contract to change out spent solvent for the parts washer on a more frequent basis. Put in place a contract with a parts washer service to change out spent solvent. Staff stated that this had been available in the past, but it was discontinued. The site Supervisor has been tasked to see if a contract can be re-instated or budgeted for the future.

<u>Training</u> - Employee training on spill prevention is up to date.

#### **Open Space, Streambank and Hydrologic Habitat Maintenance - Sheet 1 - Katonah, Cross River, Amawalk, Croton**

<u>Pet waste education</u> - Most roads available to the public are not near our reservoirs. There is, however, one road near the Cross-River Reservoir where people can walk their dogs. A pet waste control station with a pet waste bag dispenser was installed on this road to encourage people to pick up their pet waste. This practice has worked positively at other EOH DEP facilities that have public access. To date there seems to be a big improvement.

# **Building Maintenance - Sheet 2 - Boyds Corners, Croton Falls, Mahopac WWTP, West Branch**

#### **Carmel Field Operations Building**

<u>Housekeeping/Outdoor materials storage</u> - Used and new 55-gallon drums, old tires, and some gasoline-powered equipment continue to be stored outside, uncovered in the wooded area up on the small hill behind the building. Suggest that the drums start to be removed and/or at least covered. A tire removal schedule should be developed ASAP. This seem to be an ongoing problem. As mentioned before, installing a shed or covered roof for small equipment would be a big improvement as a temporary storage place.

#### Mahopac Wastewater Treatment Plant

Housekeeping -The outside dumpsters should be closed to keep rainwater out and prevent

stormwater pollution generation.

<u>Dewatered sludge roll-off container</u> - The sludge transfer and disposal system appear to have the potential of creating stormwater pollution, since there is some staining of the entrance driveway to the sludge roll-off container garage and leaking underneath the roll-off container was observed. The following steps should be taken: 1. Verify the direction and outlet of stormwater flows on the entrance driveway to the sludge roll-off garage. If the stormwater flows to a storm drain that is connected internally back to the head of the sewage treatment plant, then no further action is needed. 2. If the stormwater flows into a storm drain the sludge transfer process, such as: A. Provide a more enclosed chute system for sludge transfer rather than the open blue tarp currently used; B. Contract with a roll-off company that can provide a leak-proof roll-off container. C. Relocate the container to a better location on the site and mitigate the risk.

#### Vehicle Equipment Maintenance - Sheet 2 - Carmel Field Operations

#### **Carmel Field Operations Maintenance Facility**

<u>Vehicle washing</u> - Vehicles are currently washed down in the parking lot, as a last resort, to remove salt. The parking lot drains downhill to a paved swale and directly into a storm drain. It is recommended that vehicles be washed elsewhere, such as at the Mahopac Protection Office where boat washing currently takes place or Staff now use vouchers to wash vehicles at a private facility that is connected to the sanitary sewer system.

<u>Self-audit</u> - It is recommended that the facility supervisor complete a Stormwater Pollution Prevention Facility Self-Audit (Appendix C) at least once a year, as was done for the Cross-River Maintenance Facility.

#### Building Maintenance - Sheet 3 - Kensico, Eastview, Pleasantville

#### Kensico Manor Field Maintenance Garage

<u>Petroleum products storage</u> - Used oil from back-up generators is delivered to this facility for storage and eventual pick up by a waste oil company. In addition, there is a high concentration of gas, oil, and other materials stored both inside this facility. While the floor drains have been sealed off and there are no nearby storm drains, supervisors should continue to be vigilant in the handling of waste and maintain the spill response plan and conduct staff training.

#### **Kensico Manor House**

<u>Roof leaders and septic system</u> - Staff noted that in the past it was discovered that the roof leaders from the building are tied into the septic system. The roof leaders should be disconnected as soon as possible to prevent failure of the septic system, which could lead to surface stormwater contamination. At this point in time, the Manor house is not manned and is in the process of either being removed or given to the town.

#### **Eastview Precinct**

<u>Fuel station</u> – There are two storm drains in the fueling station area are tied directly to the underground sand filter. This situation can lead to failure of the sand filter much sooner than normal due to stormwater containing petroleum continually entering the sand filter. Upon inspection and looking at records, it seems that there has never been a release of petroleum-based products into the sand filters. Continue to inspect the sand filter monthly as is currently being done. Continue to close the storm drains off with spill mats during fuel tanker deliveries as is currently being done. In the future, consider tying these two storm drains to the sanitary system.

<u>Garage floor drain</u> - It is not clear where the floor drains in the garage drain. It seems that there is an additional sand filter under the floor where water can perc into. In the future, consider tying this garage drain to the sanitary system.

# Street, Bridge and Parking Lot Maintenance - Sheet 3 - Kensico, Eastview, Pleasantville

#### Kensico Shaft 18

<u>Ditch behind Kensico Shaft 18 office trailer</u> – A silt fence was used for erosion control on a temporary open ditch. This seemed to be a less effective measure due to pavement obstructions and it is difficult to maintain the integrity of the installation. In addition to the silt fence, a Silt Sox was installed on the pavement edge to contain any silt generated by stormwater runoff.

#### **Next Steps**

For those agency operations prioritized in this self-assessment, NYCDEP should continue do the following over the next three years: Implementation Plan

Further, investigate the agency operations on the prioritized list, select pollution prevention/good housekeeping practices to reduce pollution potential to local waterbodies, and develop an implementation plan for each operation, including budget information and clearly identify the Responsible Individual for implementation.

#### **BMP Implementation**

Install the pollution prevention/good housekeeping best management practices identified in the Implementation Plan.

#### Evaluation

Evaluate implementation progress at least once every three years. Continue good practices based on Section VIII.A.6.a.ii of the General Permit for Stormwater Discharges from Municipal Separate Storm Sewers (MS4s), permit #GP-0-10-002. In addition, section VIII.a.6.g of the GP-0-10-002 states that during the 3-year program development period the covered entity must develop a Stormwater pollution prevention program that describes pollution prevention priorities and management practices to be developed. The self-assessment is the most effective way to accomplish these goals.

 Table 1: NYCDEP Complexes and Facilities in MS4 Area East of

 the Hudson River

					Та	ble 1	: DE	P Cor	nplex	es an	d Facilities in MS4 /	Area Eas	t of the	Hudson River					
As of 3/30/20	21 Data Sourd BWS GIS (TES)	e: NYCDEP	L	and-cove	er Break	down b	y Parcel.	*	Roads actual P		Each Complex Includes the Following Facilities:								
Complex Name	SWIS_SBL Parcel	Section-Block Lot	Total Acres of Parcel	Forested Acres	Turf / Meado w Acres	Wetland Acres	Other Develop ed Acres	Impervious Acres- excluding NYC-owned rds	NYC Road Length (Miles)	NYC Road Surf ace (Acres)	Facility Name	Category	Туре	Address	County	Town	Contact	Contact phone	Demo Date
	555200037005002500 50000000	37.05-25-5	53.1	22.5	11.1	7.9	7.9	3.6			Amawalk Auxiliary Dam	DAM		Tomahawk Street	w	Somers			
											Amawalk Dam Meter Chamber	CHAMBER	METER	2547 Amawalk Road	W	Somers			
											Amawalk Dam Valve Chamber	CHAMBER	VALVE	2547 Amawalk Road	W	Somers			
											Amawalk Intake Tower	CHAMBER	INTAKE	NYS Route 35	W	Somers			
											Amawalk Main Dam	DAM		NYS Route 35	W	Somers			
Amawalk											Amawalk Main Dam Spillway	CHANNEL	SPILLWAY	NYS Route 35	W	Somers			
											Amawalk Outlet Culvert	BRIDGE		Route 35	W	Somers			
	555200037013002500 80000000	37.13-25-8	222.4	200.0	11.6	0.6	8.9	1.3			Amawalk Auxiliary Release Bridge	BRIDGE		Route 35	W	Somers			
											Amawalk Barn	STORAGE	BARN		w	Somers	Jim Keesler	(914)455-3373	FY 23
											Amawalk Maintenance House	RESIDENCE	HOUSE	2552 Amawalk Road	w	Somers	Jim Keesler	(914)455-3373	FY 23
	373089057000000100 20000000	571-2	372.2	319.0	22.7	23.4	6.1	1.0			Bog Brook Dam 1	DAM		21 Brewster Hill Road	Р	Southeast			
Bog Brook											Bog Brook Dam 1 Valve Chamber Bog Brook Dam 2	CHAMBER DAM	VALVE	21 Brewster Hill Road 21 Brewster Hill Road	P	Southeast Southeast			
Dog Drook											Bog Brook Gate House	CHAMBER	GATE	21 Brewster Hill Road	P	Southeast			
											Bog Brook/Sodom Tunnel Connection Chamber	CHAMBER	VALVE	21 Brewster Hill Road	Р	Southeast			
	372200031000000202 80000000	312-28	24.2	11.1	3.3	3.9	3.1	2.8			Boyds Corner Dam	DAM		2946 Route 301	Ρ	Kent			
											Boyds Corner Dam Gatehouses	CHAMBER	GATE	2946 Route 301	Р	Kent			
Boyds											Boyds Corner Dam Intake Tower	CHAMBER	INTAKE	2946 Route 301	Р	Kent			
Reservoir											Boyds Corner Dam Spillway Boyds Corner Dam Valve Chamber	CHANNEL	SPILLWAY VALVE	2946 Route 301 2946 Route 301	P	Kent Kent			
	372200032000000100																		
	30000000	321-3	9.8	8.0	1.1	0.0	0.7	0.1			Boyds Corners Barn Boyds Corners Maintenance House	STORAGE	BARN	2986 Route 301 2986 Route 301	P P	Kent	Jim Keesler Jim Keesler	(914)455-3373 (914)455-3373	FY 23 FY 23
	552000049012000100 10000000	49.12-1-1	16.9	11.6	1.5	0.1	2.3	1.3			Cross River Barn	STORAGE	BARN	241 Cross River Road	w	Bedford	Joseph Brunetto	914-232-3483	
	1000000										Cross River Fleet Maintenance	SHOP	GARAGE	241A Cross River Road	W	Bedford	Joseph Brunetto	914-232-3483	'
											Cross River Maintenance House	OFFICE	HOUSE	241 Cross River Road	W	Bedford	Joseph Brunetto	914-232-3483	2017
											Cross River Septic System (under Barn)	SEPTIC		241 Cross River Road	W	Bedford	Joseph Brunetto	914-232-3483	
											Cross River Dam	DAM		1 Maple Avenue	W	Bedford			
				<u> </u>	<u> </u>						Cross River Dam Spillway	CHANNEL	SPILLWAY	Maple Avenue	W	Bedford			$\parallel$
											Cross River Dam Valve Chamber Cross River Outlet Bridge	CHAMBER BRIDGE	VALVE	241B Cross River Road Maple Avenue	W	Bedford Bedford	l		+
Cross River	552000050015000100 10000000	50.15-1-1	361.6	297.7	38.9	13.5	10.4	1.1			Cross River Dam Gate House	CHAMBER	GATE	241B Cross River Road	w	Bedford			
											Cross River Inlet Bridge	BRIDGE		Old Post Road (State Highway 121)	w	Bedford			
									0.33	1.0	Maple Avenue	ROAD			w	Bedford			

# Table 1 Page 1 - facility chart (Excel Spreadsheet)

Complex Name	SWIS_SBL Parcel	Section-Block Lot	Total Acres of Parcel	Forested Acres	Turf / Meado w Acres	Wetland Acres	Other Develop ed Acres	Impervious Acres- excluding NYC-owned rds	NYC Road Length (Miles)	NYC Road Surf- ace (Acres)	Facility Name	Category	Туре	Address	County	Town	Contact	Contact phone	Demo Date
	see 671-40 in Diverting										Croton Falls Diverting Channel Weir	WEIR		Lower Mine Road	Р	Southeast			
	372000077000000200 70000000	772-7	220.0	174.4	27.0	7.4	8.9	2.3			Croton Falls Dam	DAM		Croton Dam Road	Р	Carmel			
											Croton Falls Dam Gate House	CHAMBER	GATE	Hemlock Road	Р	Carmel			
											Croton Falls Dam Lower Spillway Bridge	BRIDGE		Croton Dam Road	Р	Carmel			
											Croton Falls Dam Spillway	WEIR		Croton Dam Road	Р	Carmel			
											Croton Falls Dam Upper Spillway Bridge	BRIDGE		Croton Dam Road	Р	Carmel			
Croton Falls											Croton Falls Dam Valve Chamber	CHAMBER	VALVE	Croton Dam Road	Р	Carmel			-
											Croton Falls Hydraulic Pumping Station	PUMP	STATION	Hemlock Road	Р	Carmel			
											Croton Falls Maintenance House	OFFICE	HOUSE	16 Samantha Lane	Р	Carmel			Spring 2018
											Croton Falls Road Bridge	BRIDGE		Croton Falls Road	Р	Carmel			
											Croton Dam Rd Stormwater Remediation	REMEDIATION		Croton Dam Road	Р	Carmel	Jim Keesler	(914)455-3373	
									0.98	3.0	Croton Dam Road	ROAD			Р	Carmel			
	27200007700000001								0.40	1.2	Hemlock Road	ROAD			Р	Carmel			
	372000077000000201 70000000	772-17	220.0	174.4	27.0	7.4	8.9	2.3			Magnetic Mine/Lower Mine Rd Stormwater Remediation	REMEDIATION		Lower Mine Road	Р	Carmel	Jim Keesler	(914)455-3373	
	555400047013000100 30000000	47.13-1-3	15.8	13.8	0.0	0.2	0.6	1.1			Baptist Church Road Bridge	BRIDGE		Baptist Church Road	W	Yorktown			
	see 58.08-1-2 in Turkey Mt.										Croton Lake Downtake Chamber	CHAMBER	DOWNTAKE	Chapman Road	W	Yorktown			
	555400058009000100 20000000	58.09-1-2	39.3	28.6	2.5	3.0	2.9	2.2			Hunters Brook Bridge	BRIDGE		Croton Lake Road	W	Yorktown			
	555400058012000100 40000000	58.12-1-4	50.6	32.5	5.7	1.7	4.2	6.5			Highlands Office	OFFICE	HOUSE	900 Croton Lake Road	W	Yorktown			FY 22
	555400058016000101 10000000	58.16-1-11	5.8	5.0	0.1	0.0	0.4	0.2			Croton Lake Gate House (Old)	CHAMBER	GATE	Croton Dam Road	W	Yorktown			
Croton Reservoir											Croton Lake Gate House Septic System	SEPTIC		1120 Croton Dam Road	W	Yorktown	Russ Hanaburgh	346-386-3457	
	555400059013000100 10000000	59.13-1-1	56.4	44.1	1.4	4.9	3.4	2.6			Croton Lake Electrical Shop	SHOP	ELECTRIC	1111 Route 129	W	Yorktown	David Syso	347-672-0527	Spring 2018
											Croton Lake Gate House (New)	CHAMBER	GATE	1120 Croton Dam Road	W	Yorktown	Russ Hanaburgh	347-386-3457	
											Gatehouse Bridge "B"	BRIDGE		Croton Dam Road	W	Yorktown			
									0.24	0.7	Pines Bridge (old) Arcady Road	BRIDGE ROAD			W	Yorktown Yorktown			
	555400059013000100 70000000	59.13-1-7	6.7	6.4	0.2		0.1	0.1	0.02	0.1	Arcady Road	ROAD			w	Yorktown			
	553600059013000100 10000000	59.13-1-1	61.2	52.3	0.4	8.3	0.1	0.1			Kisco River Bridge "D"	BRIDGE		Lake Road (CR 1323)	W	New Castle			
	372800019000000201 60000000	192-16	0.9	0.2	0.2	0.0	0.5	0.0			Delaware Aqueduct Shaft 08	SHAFT		1919 Route 301	Р	Putnam Valley			
	554000041000112500 10000000	411125-1	11.6	8.6	0.6	0.0	2.3	0.1			Delaware Aqueduct Shaft 12	SHAFT		Route 22	W	North Salem			
	372200043000000206 40000000	432-64	38.7	21.5	6.7	9.7	0.3	0.5			Delaware Aqueduct Shaft 09	CHAMBER	INFLUENT	352 Dixon Road	Р	Kent			
Delaware Aqueduct	552000049012000200 10000000	49.12-2-1	69.6	55.3	5.0	1.6	4.0	3.7			Delaware Aqueduct Shaft 13	CHAMBER	DRAINAGE	241C Cross River Road	W	Bedford			
	555200006012002501 30000000	6.12-25-13	83.4	72.0	5.8	1.1	4.4	0.2			Delaware Aqueduct Shaft 11	CHAMBER	VALVE	Butlerville Road	W	Somers			
	552000073009000101 10000000	73.09-1-11	0.3	0.3	0.0	0.0	0.0	0.0			Delaware Aqueduct Shaft 14	SHAFT		Harris Road	W	Bedford			
	552000083015000100 90000000	83.15-1-9	0.3	0.2	0.1	0.0	0.0	0.0			Delaware Aqueduct Shaft 15	SHAFT			W	Bedford			

Complex Name	SWIS_SBL Parcel	Section-Block Lot	Total Acres of Parcel	Forested Acres	Turf / Meado w Acres	Wetland Acres	Other Develop ed Acres	Impervious Acres- excluding NYC-owned rds	NYC Road Length (Miles)	NYC Road Surf- ace (Acres)	Facility Name	Category	Туре	Address	County	Town	Contact	Contact phone	Demo Date
	373089067000000104 00000000	671-40	193.7	126.6	11.6	35.5	19.2	0.8			Diverting Dam	DAM		Lower Mine Road	Ρ	Southeast			
Diverting											Diverting Dam Intake Tower	CHAMBER	INTAKE	Lower Mine Road	Р	Southeast			
											Diverting Dam Outlet Fountain	AERATOR CHANNEL	FOUNTAIN	Lower Mine Road	P	Southeast			
											Diverting Dam Spillway Diverting Dam Valve Chamber	CHAMBER	VALVE	Lower Mine Road Lower Mine Road	P	Southeast Southeast			
											Diverting Spillway Bridge	BRIDGE	VILVE	Lower Mine Road	P	Southeast			
Diverting									0.29	0.9	Lower Mine Road	ROAD			Р	Southeast			
-	373089078000000105 10000000	781-51	24.8	23.1	0.6	0.0	1.1	0.0			Reservoir Road Bridge	BRIDGE		Reservoir Road	Ρ	Southeast			
Hunter	555400036009000106 10000000	36.09-1-61	6.9	5.8	0.9	0.0	0.1	0.0			Hunter Brook North Siphon Chamber	CHAMBER	SIPHON	Jacob & Hunterbrook Road	W	Yorktown			
Brook	555400036014000102 10000000	36.14-1-21	11.5	10.6	0.7	0.0	0.2	0.0			Hunter Brook South Siphon Chamber	CHAMBER	SIPHON	Hunterbrook Road	W	Yorktown			
Katonah	552000049020000100 10000000	49.20-1-1	81.1	59.4	4.5	9.9	6.2	1.1			Katonah District Office	OFFICE	BUILDING	5 Jay Street	W	Bedford	Ralph Marchatelli	(914)232-8556	
Office											Katonah Office Septic System	SEPTIC		5 Jay Street	W	Bedford	Ralph Marchatelli	(914)232-8556	
Kirk Lake	372000064019000101 70000000	64.19-1-17	53.2	50.1	0.3	0.4	2.0	0.4			Kirk Lake Dam	DAM		Lakeside Road	Ρ	Carmel			
											Kirk Lake Dam Valve Chamber	CHAMBER	VALVE	Longpond & Lake Side Road (Hill Street)	Р	Carmel			
Lake Gilead	372000066000000203 20000000	662-32	131.7	120.7	6.0	3.7	1.3	0.0			Lake Gilead Dam	DAM		Seminary Hill Road	Р	Carmel			
Lake Gleneida	372000055000000200 50000000	552-5	56.9	32.1	10.5	9.7	3.8	0.8			Lake Gleneida Dam	DAM		Route 301	Р	Carmel			
Mahopac	372000065017000104 10000000	65.17-1-41	14.7	0.0	0.0	2.4	10.5	1.8			Mahopac Protection Office	OFFICE	BUILDING	54 Croton Falls Road	Р	Carmel	Tony Peronti	347-386-3449	
WWTP											Mahopac WWTP Mahopac Land Management	WWTP		34 Mud Pond Road	P P	Carmel	Patrick Frawley Tony Peronti	(845) 628-5637 347-386-3449	
	373089056000000101	561-17	203.6	144.5	17.2	30.9	8.9	2.1			Drewville Road Bridge	BRIDGE		Drewville Road	P	Southeast	Tony reiona	347-300-3449	
	7000000										-		DELEAGE		P				
Middle											Middle Branch Blow-Off Chamber Middle Branch Dam	CHAMBER DAM	RELEASE	Maple Road 826 Drewville Road	P	Southeast Southeast			
Branch											Middle Branch Dam Intake Tower	CHAMBER	INTAKE	826 Drewville Road	P	Southeast			
											Middle Branch Dam Meter Chamber	CHAMBER	METER	826 Drewville Road	Р	Southeast			
											Middle Branch Dam Spillway	CHANNEL	SPILLWAY	826 Drewville Road	Р	Southeast			
											Middle Branch Dam Valve Chamber	CHAMBER	VALVE	826 Drewville Road	Р	Southeast			
	554000001000167100 10000000	11671-1	49.7	29.2	2.9	13.4	3.0	1.3			Deans Bridge "P"	BRIDGE		Deans Bridge Road	W	North Salem			
	555200028014002500 10000000	28.14-25-1	772.3	601.5	59.3	79.9	25.8	5.8			Muscoot Dam	DAM		Cherry Street	W	Somers			
Muscoot	FF000004004400040										Plum Brook Bridge "M"	BRIDGE		Plum Brook Road	W	Somers			
	552000049011000100 30000000	49.11-1-3	0.6	0.3	0.0	0.1	0.1	0.0			Lakeside Road Bridge "H"	BRIDGE		Lakeside Road	W	Bedford			
	552000049013000100 10000000	49.13-1-1	87.0	80.6	0.9	3.3	0.9	1.1			Muscoot Dam Gate House	CHAMBER	GATE	33 Cherry Street	W	Bedford			
	552200068008000100 80000000	68.08-1-8	128.7	114.5	2.1	11.6	0.4	0.1	0.10	0.3	New Croton Aqueduct Shaft 01	SHAFT		1/8 mile West of CLGH Barway	W	Cortlandt Cortlandt			
New Croton Aqueduct									0.10	0.3	Groton Dalli Ruau	NUAD			۷V	Contanut			+
	553600080007000100	80.7-1-8	0.9	0.9	0.0	0.0	0.0	0.0			New Croton Aqueduct Shaft 02	SHAFT		Woods Lane	W	New Castle			
	8000000																		

Complex Name	SWIS_SBL Parcel	Section-Block Lot	Total Acres of Parcel	Forested Acres	Turf / Meado w Acres	Wetland Acres	Other Develop ed Acres	Impervious Acres- excluding NYC-owned rds	NYC Road Length (Miles)	NYC Road Surf ace (Acres)	Facility Name	Category	Туре	Address	County	Town	Contact	Contact phone	Demo Date
	552200068008000100 10000000	68.08-1-1	20.4	4.8	0.6	14.8	0.2	0.1			New Croton Dam Blow-Off Chamber	CHAMBER	RELEASE	Croton Lake Road	W	Cortlandt			
New Croton											New Croton Dam Masonry Dam	DAM		Croton Dam Road	W	Cortlandt			
Dam											New Croton Dam Gate House 1	CHAMBER	GATE	56 Croton Lake Road	W	Cortlandt			
											New Croton Dam Gate House 2	CHAMBER	GATE	43 Croton Lake Road	W	Cortlandt			
									0.26	0.8	Croton Dam Road	ROAD			W	Cortlandt			
Park Street Culvert	373001067011000200 30000000	67.11-2-3	2.8	0.0	0.0	0.0	2.8	0.0			Park Street Culvert	BRIDGE		Park St. & Marvin Ave.	Ρ	Southeast			
	373089068000000200 40000000	682-4	647.9	427.0	13.5	194.7	12.0	0.7			Sodom Dam Gate House	CHAMBER	GATE	1100 Route 22	Р	Southeast			
											Sodom Dam Spillway	CHANNEL	SPILLWAY	1100 Route 22	Р	Southeast			
Sodom Dam											Sodom Dam Valve Chamber (East Branch)	CHAMBER	VALVE	1100 Route 22	Р	Southeast			
											Sodom Earth Dam	DAM		1100 Route 22	P	Southeast			
									-		Sodom Masonry Dam	DAM		1100 Route 22	Р	Southeast			
	554000TITTCUS RESERVOIR	151688-12	130.4	97.8	5.7	12.5	5.3	9.0			Titicus Dam	DAM		119 Titicus Road (Route 116)	W	North Salem			
	554000028000168500										Titicus Dam Gate House	CHAMBER	GATE	119 Titicus Road (Route 116)	W	North Salem			
Titicus	1000000	281685-1	6.6	5.7	0.2	0.0	0.4	0.3			Mills Road Bridge	BRIDGE		Mills Road	W	North Salem			
	554000028000168600 10000000	281686-1	39.5	31.3	4.6	0.1	2.1	1.5			Titicus Dam Spillway Channel	CHANNEL	SPILLWAY	119 Titicus Road (Route 116)	W	North Salem			
											Titicus Dam Valve Chamber	CHAMBER	VALVE	119 Titicus Road (Route 116)	W	North Salem			
Turkey	555400047019000102 40000000	47.19-1-13	21.5	18.3	2.2	0.0	0.7	0.3			Turkey Mountain North Siphon Chamber	CHAMBER	SIPHON	1227 Underhill Road	W	Yorktown			
Mountain	555400058008000100 20000000	58.08-1-2	19.0	13.9	3.9	0.0	0.5	0.7			Turkey Mountain South Siphon Chamber	CHAMBER	SIPHON	Chapman Road	W	Yorktown			
	372000054000000102 90000000	541-29	104.6	64.7	13.4	13.7	10.9	1.9			Belden House	OFFICE	HOUSE	1 Belden Road	Ρ	Carmel	Jim Keesler	(914)455-3373	FY 22- 23
											Carmel NRM Office	OFFICE	HOUSE	1 Belden Road	Р	Carmel	Jim Keesler	(914)455-3373	Spring 2017
											Carmel Well House	WELL	HOUSE	1 Belden Road	Ρ	Carmel	Jim Keesler	(914)455-3373	
											DEL Shaft 10 (West Branch Effluent Chamber)	CHAMBER	EFFLUENT	Route 6 (N/O Drewville Road)	Р	Carmel	Jim Keesler	(914)455-3373	
											DEL Shaft 10 Septic System	SEPTIC		Route 6 (N/O Drewville Road)	Р	Carmel	Jim Keesler	(914)455-3373	
											West Branch Auxiliary Dam Gate House	CHAMBER	GATE	Route 6	Ρ	Carmel			
											West Branch Main Dam	DAM	0.175	Route 6 & Belden Road	P	Carmel			
West											West Branch Main Dam Gate House West Branch Main Dam Valve Chamber	CHAMBER	GATE VALVE	Route 6 & Belden Road Route 6 & Belden Road	P P	Carmel Carmel			
Branch	see 432-64 in Del.										Dixon Road Bridge	BRIDGE		Dixon Road	Р	Kent			
	Aq. 372000054000000103 00000000	541-30	5.0	3.3	0.1	0.0	1.6	0.1			Carmel Field Operations Office	OFFICE		1 Belden Road	Р	Carmel	John Daddona	347.203.9303 845- 225-3550	
	372000065000000100 5000000	651-5	43.5	30.0	1.8	8.1	3.1	0.5			West Branch Auxiliary Dam	DAM		Route 6	Р	Carmel			
	372000077000000201 30000000	772-13	111.3	95.5	7.0	5.8	2.6	0.5			West Shore Drive Bridge	BRIDGE		West Shore Drive	Р	Carmel			
	372000054000000103 10000000	541-31	16.9	15.3	1.3		0.2	0.1			Washington Rd Stormwater Remediation	REMEDIATION		Washington Rd	Р	Carmel	Jim Keesler	(914)455-3373	
	372000054000000107 70000000	541-77	9.1	6.2	0.1	2.7	0.1	0.0			Pennebrook Rd Stormwater Remediation	REMEDIATION		Pennebrook Rd	Р	Carmel	Jim Keesler	(914)455-3373	
	372000055000000200 30000000	552-3	23.1	22.1	0.5	0.0	0.5	0.0			Meadowlark Dr Stormwater Remediation	REMEDIATION		Meadowlark Dr	Ρ	Carmel	Jim Keesler	(914)455-3373	

Complex Name	SWIS_SBL Parcel	Section-Block Lot	Total Acres of Parcel	Forested Acres	Turf / Meado w Acres	Wetland Acres		Impervious Acres- excluding NYC-owned rds	NYC Road Length (Miles)	NYC Road Surf- ace (Acres)	Facility Name	Category	Туре	Address	County	Town	Contact	Contact phone	Demo Date
			Total Acres of Parcels	Forested Acres	Turf/ Meado w Acres	Wetland Acres	Other	Imperviou s Acres (excluding NYC- owned rds)	NYC Road Length (Miles)	NYC Road Surf- ace (Acres)									
Total Acreage Complexes in EOH Water- shed			4,959.9	3,795.4	344.9	547.9	207.2	64.4	2.63	8.0									
In MS4 A	rea (Outside	EOH wa	tershe	d):															
Kensico Flouride	,			,											w		Russ Hanaburgh	346-386-3457	
Kensico Manor Field															w		Sal Siciliano	917.578.1658	
Kensico Shaft 18															W		R. Hannaburgh	914-948-1679	
Eastview Precinct															W		Douglas Walton	(914) 742-2035	
Hudson River Pump Station (HRPS)															D		Charlie Newman	(8450 628-5968	
SH 17															W		Louis Occhiuto	(347) 672-0650, (914)397-7970	
Pleasant- ville Alum Plant															W		Louis Occhiuto	(347) 672-0650,	

W=Westchester P=Putnam D=Dutchess

#### NOTES: Final Total of 134 facilities on this list. GIS data are approximate according to their scale and resolution, they may be subject to error and are not a substitute for on-site inspection or survey.

1) GIS Parcel data source is 2009 digital tax parcel data from Westchester and Putnam Counties. Land-cover and Parcel acreages can be summed by column because any duplicate parcels that span more than one complex are only listed once and noted in comments field for any additional facility/complex combinations that fall on a previously-listed parcel.

2) GIS Facilities data source are GPS-ed locations of side of, center of, or entrances to facilities by DEP Operations or Police. They are represented in GIS as point features. Actual building or structure footprints are not available in GIS format.

3) GIS Level-4 Land-cover classification is derived from 2001 30m satellite imagery enhanced by 2001 1ft CIR orthoimgery for impervious surfaces. Several land-cover categories are aggregated into the 5 classes displayed in this table. 4) \* "Other Developed" category is a land-cover class of mixed development areas (commercial/industrial, low/med/high density residential, etc.) that is not completely impervious (lawns, trees, gravel clearings, etc). Only the portions of those areas that are actually impervious (as best detected by automated classification of 2001 orthoimagery) are calculated in the "impervious" column.

5) \*\* Gaps exist between all GIS tax parcels (as maintained by each County) where public road rights-of-way exist, so these areas are not included as part of each parcel polygon. Since these public roadway corridors are not included as land in NYC-owned parcel delineations for land-cover analysis, the NYC-owned road surface areas that fall within these gaps were calculated by multiplying length (from the NYSDOT ALIS vector road GIS layer for these sections) by the average measured road width of 25 ft.(from 2009 1 ft orthoimagery) and converted to acres. See "Table 2: Roads Worksheet" for how this was calculated.

#### Table 2: Worksheet List of DEP BWS-owned and Maintained Roads by Parcel, Inside EOH Basins

As of 3/30/20	)21 Data	Source:	NYCDEP BWS GIS (TES)								
Road Section Name	Туре	Miles	SWIS_SBL Parcel	Section- Block-Lot	Length (Miles)	Length (Feet)	Avg Width (Feet)	Road Area (Sq Ft)	Road Area (Acres)	County	Town
Arcady	NYC-owned rd	0.24	55540005901300010010000000	59.13-1-1	0.24	1,267.13	25	31,678.16	0.7	Westchester	Yorktown
		0.02	55540005901300010070000000	59.13-1-7	0.02	110.75	25	2,768.66	0.1	Westchester	Yorktown
Croton Dam (Croton Falls Res.)	NYC-owned rd	0.98	37200007700000020070000000	772-7	0.98	5,174.66	25	129,366.48	3.0	Putnam	Carmel
Croton Dam (New Croton Res.)		0.26	55220006800800010010000000	68.08-1-1	0.26	1,369.36	25	34,233.92	0.8	Westchester	Cortlandt
		0.29	5522000680080001008000000	68.08-1-8	0.10	523.21	25	13,080.35	0.3	Westchester	Cortlandt
Hemlock	NYC-owned rd	0.40	372000077000002007000000	772-7	0.40	2,117.05	25	52,926.15	1.2	Putnam	Carmel
Lower Mine	NYC-owned rd	0.29	373089067000001040000000	671-40	0.29	1,549.56	25	38,738.89	0.9	Putnam	Southeast
Maple	NYC-owned rd	0.33	55200005001500010010000000	50.15-1-1	0.33	1,748.37	25	43,709.33	1.0	Westchester	Bedford
Total					2.63	13,860.08	200	346,501.95	8.0		_

#### NOTES: Total Mileage = 2.63

1) Only NYC-owned road sections that drain inside the EOH watershed basins (excluding Kensico) are included. Any road sections over New Croton dam is included.

2) Since road corridors are not included in NYC-owned parcel delineations for land-cover analysis, the road surface area was calculated by multiplying length (from the NYSDOT ALIS vector road GIS layer for these sections) by the average measured road width of 25 ft.(from 2009 1 ft orthoimagery) and converted to acres. These acres are included in "Table 1: Complex Report" as additional imperious road acres by parcel.

3) Data Sources: NYSDOT ALIS (Accident Location Information System) Roads, 2007 and NYS CSCIC March 2009 leaf-off 1 ft digital orthoimagery.

# **Appendix 1: NYCDEP EOH Facility Stormwater Pollution Prevention Self-Assessment Checklists**

# MS4 Stormwater Assessment: Building Maintenance – Katonah, Cross River, Amawalk and Croton

# **General Notes**

<u>Universal Waste Program</u> – All Facilities send Bill Brenner an email as needed regarding the hazardous, non-hazardous, universal, electronic and bulk waste that they have collected at their sites. This waste is then transported to the Croton Lake New Gate House for central collection and storage until removal.

<u>*Household Hazardous Waste*</u> – Triumverate Environmental or an on-call emergency waste management company collects periodically.

<u>Septic System Recording</u> – Jim Keesler maintains pink Slips required by the Westchester County Health Department.

<u>**Fueling Station**</u> – All vehicles fueling stations have double walled petroleum tanks with electronic leak detection.

# **Staff Contacts**

Bill Brenner is the WTO Compliance Manager.Jim Keesler is the Facilities Manager for the Highlands Region.Mohammed Rahim is the Manager of the Cross River fleet maintenance facility.

# MS4 Stormwater Assessment:

# Building Maintenance - Sheet 1 - Katonah, Cross River, Amawalk, Croton

		-					32.		
		/	/ /			d Wainerearce	enance House	all Maintenance	House
Date of visit: July 13, 2021	_					Mainter	enance	ance	m Lake Electric
nstructions: Place an "X" in the box if the			Office		auffiel	o. Main		aintena	Electr
activity occurs at a location. Items in <b>BOLD</b>		ly Name Kator	District	River Barn Cross	uer Flee	River	alk Ban	alk Mar	Lake
are <b>BMPs</b> . Check all that apply.	cill	N Ne stor	alt	RIV	RIV	JSS I	awa. may	Va.	un into
		Ka	an District Office		Cr.	A1.	<u> </u>	Cr.	Cro
Activity	Category	OFFICE	STORAGE	SHOP	OFFICE	STORAGE	RESIDENCE	SHOP	CHAMBER
	Туре	BUILDING	BARN	GARAGE	HOUSE	BARN	HOUSE	ELECTRIC	GATE
Pollution Generating Activities		Bedford	Bedford	Bedford	Bedford	Somers	Somers	York-town	York-town
Contractor used for maintenance									
Bulk petroleum storage		х	х						x
Hazardous materials storage			х	х					х
Outdoor loading / unloading of materials			х	х					х
Outdoor container storage of liquids				х					
Dutdoor storage of raw materials				х					
Roof drainage systems		х	х						
Building washing performed		х							
idewalk cleaning (powerwashing)						m	<b>m</b>		
idewalk salting		х				23	23		x
n-site septic systems		х	Х	Х	N.	눈		×.	x
Outside dumpster			х	x	101	L L		101	
Current BMPs in Place					Demolished Spring 2017	Scheduled for demolition FY	Scheduled for demolition FY	Demolished Spring 2018	
rosion control for new construction		x	x	x	·:	2	0	·Ľ	
Iternative product usage		x	x	x	Sp	E	L L	Sp	
luorescent light recycling		х	х	х	73	ğ	de	σ	х
aper/plastic recycling		х	х	х	ě	ž	2	ě	х
nimal waste program			х		ls l	Ę	fe	ls l	
lousehold hazardous waste collection		х	х	х	0	pa	pa	0	х
Dumpster emptied weekly		ļ	ļ	х	Ĕ	Ť		Ē	
pill prevention and response plan		х	х	х	e	d D	qı	)e	х
Double walled petroleum tank			х			he	he		x
ank alarms, fill overflow shutoff, spill kits, break away hose			×			Sci	Sci		
Secondary containment-petroleum/hazard		х							x
inclosed outdoor storage containers				х					
ehicles/equipment/boats on concrete			х	х					
Outdoor materials storage covered				х					
Vashwater infiltrates into ground									
eptic inspections and recordkeeping									
eptic monthly pumpout	ļ	ļ	ļ						
taff trained in stormwater management		х	х	х					х

# MS4 Stormwater Assessment: Street, Bridge and Parking Lot Maintenance – Katonah, Cross River, Amawalk and Croton

# **General Notes**

<u>Bridges</u> – State, County and Towns maintain bridge decks and general bridge maintenance on all bridges except for Gatehouse Bridge "B".

<u>Street Sweeping</u> – Roads over dams are swept. No road sweeping is done on any other roads. Street sweepings are occasionally reused for maintenance as far as filling in pot holes. See policy for further guidance.

<u>Vehicle Washing</u> – Staff now use vouchers to wash vehicles at a private facility that is connected to the sanitary sewer system.

# **Staff Contacts**

Jim Keesler is the Regional Manager for roads and bridges in the Highland Area.

#### **MS4** Stormwater Street, Bridge and Parking Lot Maintenance - Sheet 1 - Katonah, Cross River, Amawalk, Croton **Assessment:** Date of visit: July 13 2021 Crocon Lake Gate House (New) Anewalk Maintenance House croion are Electrica Shop Cross River Feet Maintenan Cros River Other Bridge Instructions: Place an "X" in the Kaonan District Office Catenouse Bridge Bi cross five Mainte Cross River Barn box if the activity occurs at a AnawalkBarn location. Items in BOLD are **BMPs**. Check all that apply. CHAMBER OFFICE STORAGE SHOP OFFICE BRIDGE STORAGE RESIDENCE SHOP BRIDGE Activity BLDG BARN GARAGE HOUSE ELECT. GATE HOUSE BARN Pollution **Generating Activities** Bedford Bedford Bedford Bedford Bedford Somers Somers York-town York-town Yorktown Sidewalks, parking lots cleaned х х х Street maintenance х х х Striping/painting Bridge & structure maintenance Х Ditch maintenance х Х Х Х 23 Scheduled for demolition FY 23 Maintenance of unpaved roads х х Scheduled for demolition FY **Demolished Spring 2017 Demolished Spring 2018** Winter road salting Х Х х х Salt storage on site Salt vehicle washing Cleaning culverts/stormdrains х **Current BMPs in Place** Street sweeping Proper disposal of street sweepings (covered, away from water bodies) Pollution containment during bridge х maintenance Seed & mulch ditches Salt spreaders calibrated/ х maintained Alternative deicing materials used Staff trained in stormwater х Х

# MS4 Stormwater Assessment: Vehicle/Equipment Maintenance - Cross River

# **General Notes**

<u>Solvents</u> – This is still a problem from the 3-year assessment. The only improvement is that there seems to be less parts washed in turn meaning the equipment is being used far less. A consideration to contract a parts washing chemical service company to change out spent solvent on a regular basis. Staff stated that this was available in the past, but was discontinued.

<u>Septic system</u> – Monthly pump out of the system seems to be alleviating any problems with possible overflowing and contamination.

<u>*Housekeeping*</u> – There have been past problems with storage on this site. Great improvements were made, and just basic cleanup and re-arranging have been the biggest contributing factor. The team staff have also been vigilant when it comes to maintaining this site.

Audit inspection checklist (Appendix C) will also be used		
for the Vehicle Maintenance facilities.		/
Date of visit: August 3 2021		y Name Cros
Instructions: Place an "X" in the box if the activity occurs at a location.	/	~~~~ <u>~</u> ~~
Items in <b>BOLD</b> are <b>BMPs</b> . Check all that apply.		y Name Cros
		Clo
Activity	Category	SHOP
	Туре	GARAGE
Pollution Generating Activities		Bedford
Vehicle washing done outside		
Repairs done outside		
Vehicles stored outside for extended periods		х
Hazardous material storage		х
Oil water separator on site		
Tires stored outside		
Current BMPs in Place		
Stormwater Pollution Prevention Facility Self-Audit completed at least		
once a year (Appendix C)		x
Repairs done inside		х
Recycling oil and antifreeze		х
Fluids removed before vehicles stored outside		
Spill prevention and response plan		х
Wastewater disposal and treatment from wash water		х
Oil water separator disconnected from storm drain system		
Staff have been trained in stormwater management principles		х
Contract with parts washer service to change out spent solvent		

# MS4 Stormwater Assessment: Open Space, Streambank and Hydraulic Habitat Maintenance – Katonah, Cross River, Amawalk and Croton

# **General Notes**

*<u>Fertilizers</u>* – Fertilizers are not used on watershed lands.

<u>Herbicides/Pesticides</u> – Limited herbicides are used on dam faces to control weeds. Personnel that are qualified to perform this task receive extensive training and are certified as required by law. Rodent control is performed to eliminate rodent burrows by smoking out animals and plugging the burrow with concrete. These individuals also receive extensive training that allows the individuals to perform their jobs proficiently and ethnically.

<u>*Woody Debris*</u> – Woody material from roads and lawns is chipped and spread neatly in a nearby wooded areas and gardens.

*Litter Control* - Litter is collected, as needed. More time is spent near public fishing areas, due to population, and disposed of by solid waste carriers. This was less of an issue over the last 2 years because of the COVID-19 Pandemic.

# **Staff Contacts**

Michael Parks is a licensed pesticide applicator. Matt Gianetta keeps Stormwater practices inventory. Joe Ziminsky is responsible for Stormwater ponds.

#### MS4 Stormwater Assessment:

Open Space, Streambank and Hydrologic Habitat Maint. - Sheet 1 -

Katonah, Cross River, Amawalk, Croton

				Inds and St Reservoir L2 navall Res
				nds and St eservoir Le navall Res
				nds all
Date of visit: August 3 2021	_		, ters la	Noil
Instructions: Place an "X" in the box if the activity	/		Jouan P	e <sup>56</sup>
occurs at a location. Items in BOLD are BMPs.	/	anthe	RIVE	walk Re
Check all that apply.	43	ton Cr	Jouaners Priver P	nan c
Activity				
Pollution Generating Activities				
Fertilizer application				
Pet waste present				
Pesticide application	x	x	х	х
Stream bed dredging	~	~		
Creek bottom sediment removal				
Removal of woody debris	x	x	x	х
Bank reshaping				
Current BMPs in Place				
Fertilizer and pesticide usage records	х	х	х	х
Integrated pest management use	х	х	х	х
Erosion control practices used	х	х	х	х
Pet waste education	х	х		
Litter control	х	х	х	
Spill prevention and response	х	х	х	х
Priority setting for streambank stabilization				
projects				
Use of alternative soft engineering approaches				
Stormwater pond on site		х		
Stormwater pond in DEP inventory				
Stormwater pond maintenance program				
Staff trained in stormwater management	х	х	х	х

# MS4 Stormwater Assessment: Building Maintenance – Boyds Corners, Croton Falls, Mahopac WWTP and West Branch

# **General Notes**

<u>Universal Waste Program</u> – All Facilities send Russ Hanaburgh an email as needed regarding the hazardous, non-hazardous, universal, electronic and bulk waste that they have collected at their sites. This waste is then transported to the Croton Lake New Gate House for central collection and storage until removal.

<u>*Household Hazardous Waste*</u> – Triumverate Environmental or an on-call emergency waste management company collects periodically.

<u>Septic System Recording</u> –Jim Keesler maintains pink-Slips as required by the Westchester County Health Department. They are available upon request.

<u>Fueling Station</u> – All vehicles fueling stations have double walled petroleum tanks with electronic leak detection. All current operational tanks/stations are inspected and maintained by qualifies contractors within time parameters with the paperwork being maintained by the local SEE and Industrial Hygienist/Safety person.

# Housekeeping

Continue to maintain and improve in all areas of housekeeping safe management practices. There seems to be an overall improvement from last assessment. Keep up the good work.

# **Staff Contacts**

Jim Keesler is the Regional Manager for the Highland Region.

#### MS4 Stormwater Assessment:

Building Maintenance - Sheet 2 - Boyds Corners, Croton Falls, Mahopac WWTP, West

Branch

Instructions: Place an "X" in the box if the activity			Corners Barn Boyds	Corners Maintenne	n Falls Maintena Marco	nce Hos pac Protection C Matri	Mo		net WRAN Office	e Well House	elfield Ope	ations
occurs at a location. Items in BOLD are BMPs.		Name	comers	comers.	FallsMan	acprotect	acwont	House	NRMO	WellHot	Field Op	that 10
Check all that apply. SW = Stormwater	Facil	ity Name Boyds	Boyds	Croto	Maho	Nahr Mahr	opec www. Beld	en House Carr	Carr	ner cam	er DE	Steff 10
Activity	Category	STORAGE	RESIDENCE	OFFICE	OFFICE	WWTP	OFFICE	OFFICE	WELL	OFFICE		
	Туре	BARN	HOUSE	HOUSE	BLDG	WWTP	HOUSE	HOUSE	HOUSE			
Pollution Generating Activities		Kent	Kent	Carmel	Carmel	Carmel	Carmel	Carmel	Carmel	Carmel	Carmel	
Contractor used for maintenance						х						
Bulk petroleum storage					х	х				х	х	
Hazardous materials storage						х				х	х	
Outdoor loading/unloading of materials					х	х	23			х	х	
Outdoor container storage of liquids		23	23		х	х	5/:			х	х	
Outdoor storage of raw materials		F	F		х	х	72					
Roof drainage systems		ĥ	sh			х	Ē			х		
Building washing performed		oli	oli				ish					
Boat powerwashing		Ē	E		х							
Sidewalk salting		de	ă			х	en			х	х	
On-site septic systems		o.	,ъ	~			ð	~		х	х	
Outside dumpster		d t	d f	018		х	fo	01	e.			
		ule	ne ne	5			ba	5	La			
		edi	pa	ing			3	ing	sto			
Current BMPs in Place		Ċ	Ę	pr			Jeo	br	Ő			
Erosion control for new construction		s .	s.	р С			SC-	5	Z .			
Alternative product usage		lse	Ise	he			ai	he	əsr	х		
Fluorescent light recycling		Building not currently in use. Scheduled for demolish FY 23	Building not currently in use. Scheduled for Demolish FY 23	Demolished Spring 2018	х	х	Building not currently in use. Scheduled for Demolish FY 22/23	Demolished Spring 2017	Not in use. No storage.	х		
Paper/plastic recycling		<u>v</u> i	γi	ů	х	х	<u>=</u> .	ũ	ot i	х		
Animal waste program		ut	nt	<b>Je</b>			<u>}</u>	- Jel	ž			
Household hazardous waste collection		rre	rre				ent			х		
Spill prevention and response		G	G		х	х	Ľ			x	х	
Septic inspections and recordkeeping		ы	5			х	5			x	х	
Staff trained in stormwater management		Ē	Ĕ		х	х	ot			х	х	
Roof drains into infiltration area		ing	ing				50					
Secondary containment-petroleum/hazard		ild	ild			х	i			х	х	
Enclosed outdoor storage containers		Bu	Bu		х	х	lilo			x		
Indoor garage bay containment						х	В				х	
Dumpster emptied once/week						х						
All floor drains connected internally to WWTP						x						

# MS4 Stormwater Assessment: Street, Bridge and Parking Lot Maintenance – Boyds Corner, Croton Falls, Mahopac WWTP and West Branch

### **General Notes**

<u>Bridges</u> – State, County and Towns maintain bridge decks and general bridge maintenance on all bridges except for Gatehouse Bridge "B".

<u>Street Sweeping</u> – Roads over dams are swept. No road sweeping is done on any other roads. Street sweepings are occasionally reused for maintenance.

<u>Vehicle Washing</u> – Staff now use vouchers to wash vehicles at a private facility that is connected to the sanitary sewer system.

# **Staff Contacts**

Jim Keesler is the Regional Manager for roads and bridges in the Highland Area.

#### MS4 Stormwater

#### Street, Bridge and Parking Lot Maintenance - Sheet 2 - Boyds Corners, Croton Falls, Mahopac WWTP, West

Assessment:

#### Branch

Assessment.	Dianch												
Date of visit: 13 July & 18 August							/ /	-d.					
2021 Instructions: Place an "X" in	1			IOUSE	.58	. /		NRemet	/				
the box if the activity occurs at a				nce he nce H	JUST	ediation	ine Rd S	`/					Offic
location. Items in BOLD are BMPs.	. /	Barn	Mainten	aintenativ	SWREN		" Over Min	tionOffic	/ . /		office	, ause	erations
Check all that apply. SW =		comens	comens	Falls Mr.	amRo	* R080 iii	Mineit	c Protect	ac WWW II	ouse	RM O.	NellHo	I Field OP
Stormwater	Boyds	comers Barn Boyds	coners Maintena	nce House	use am Rd SW Rem Herr	Nock Road Magnetic	Wheelower Mine Red S	e Poletion Office Man	Pac WMTP Beiden H	Carmer	remotice carnel	Nell House	nel field Operations Office Westing
Activity	STORAGE	RESIDENCE	OFFICE	REMEDATION	ROAD	REMEDIATION	OFFICE	WWTP	OFFICE	OFFICE	WELL	OFFICE	REMEDIATION
Pollution	BARN	HOUSE	HOUSE				BLDG		HOUSE	HOUSE	HOUSE		
Generating Activities	Kent	Kent	Carmel	Carmel	Carmel	Brewster	Carmel	Carmel	Carmel	Carmel	Carmel	Carmel	Carmel
Sidewalks and parking lots cleaned								х					
Street maintenance	<u> </u>	<u> </u>			х			х	<u> </u>				x
Striping/painting	fo	e l						х	fo				
Bridge and structure maintenance	ed	ed							ed				
Ditch maintenance	T T	1											х
Maintenance of unpaved roads	Scheduled for	Scheduled for	×0				x		Scheduled for	N.			x
performed	Sct	Sct	2018				^		a Sct	01	6		^
Winter road salting			8				х	х	<b>N</b>	Spring 2017	storage.	х	х
Salt storage on site	use. Y 23	use. -Y 23	ri.						use. 22/	rin	st		
Salt vehicle washing	Е Ц	Р. Е.	Spring				х		ii ≻	Sp	°N N	x	
	urrently in use. demolish FY 23	urrently in use. demolish FY 23	<b>D</b>						sh tt	b			
Current BMPs in Place	u a D	u a	she						oli	she	use.		
Street sweeping	currently in demolish F	currently in demolish F	olii						currently in Demolish FY	oli	<u> </u>		
Proper disposal of street sweepings	Jot	Jot	Demolished						Building not c	Demolished	Not in		
Salt spreaders calibrated/maintained	- BL	- BL							- BL				
Alternative deicing materials used	Building	Building 1							ldi				
Staff trained - stormwater	ü	ui						x	Sui			x	х
	-												

# MS4 Stormwater Assessment: Vehicle/Equipment Maintenance – Carmel Field Operations

# **General Notes**

<u>Vehicle Washing</u> – Staff now use vouchers to wash vehicles at a private facility that is connected to the sanitary sewer system.

# **Staff Contacts**

Jim Keesler is the Regional Manager for roads and bridges in the Highland Area.

Vehicle / Equipment Maintenance - Carmel Field Operations

	-		
NOTE: The Stormwater Pollution Prevention Facility Self-			
Audit inspection checklist (Appendix C) will also be used			
for the Vehicle Maintenance facilities.			a Feed Operations Maintenance
Date of visit: 21 July & 13 August 2021			s Mainte
Instructions: Place an "X" in the box if the activity occurs at a location.			reration
Items in <b>BOLD</b> are <b>BMPs</b> . Check all that apply.		Name	FieldOF
	Facilit	y Name Carm	3. ·
Activity	Category	SHOP	
	Туре	GARAGE	
Pollution Generating Activities		Carmel	
Vehicle washing done outside		х	
Repairs done outside			
Vehicles stored outside for extended periods		х	
Hazardous material storage		х	
Oil water separator on site			
Tires stored outside		х	
Current BMPs in Place			
Stormwater Pollution Prevention Facility Self-Audit completed at least			
once a year (Appendix C)			
Repairs done inside		х	
Recycling oil and antifreeze		х	
Fluids removed before vehicles stored outside			
Spill prevention and response plan		х	
Wastewater disposal and treatment from wash water			
Oil water separator disconnected from storm drain system			
Tires removed 3 times per year		х	
Vehicles washed at another facility			
Staff have been trained in stormwater management principles		x	

# MS4 Stormwater Assessment: Open Space, Streambank and Hydraulic Habitat Maintenance – Boyds Corners, Croton Falls, Mahopac WWTP and West Branch

#### **General Notes**

*<u>Fertilizers</u>* – Fertilizers are not used on watershed land.

*<u>Herbicides/Pesticides</u>* – Herbicides are used on dam faces to control weeds. Rodent control is performed to eliminate rodent burrows by smoking out animals and plugging the burrow with concrete.

<u>*Woody Debris*</u> – The tree task force removes woody material from roads and lawns is chipped and spread neatly in a nearby wooded area.

*Litter Control* - Litter is collected, as needed, especially near public fishing areas and disposed of by solid waste carriers.

# **Staff Contacts**

Michael Parks is a licensed pesticide applicator. Matt Gianetta keeps Stormwater practices inventory. Joe Ziminsky is responsible for Stormwater ponds.

#### MS4 Stormwater Assessment:

Open Space, Streambank and Hydrologic Habitat Maintenance - Sheet 2 - Boyds Corners, Croton Falls, Mahopac WWTP, West Branch

				at.	/	/		/ /
			Minelower Mine Po SWP	erne n Rd SW Renediation Permetric	of Rd SW Reneated		a d	E.WWP Stormwater Port
Date of Site Visit: 26 July & 26 August 2021		rement	NineRo	amediati	Cemediation	amed.	aterPont	mwaterr
Instructions: Place an "X" in the box if the		Nanage	Nower	od SW Re	od SW RC	SW Re.	stormwar	TP Ston
activity occurs at a location. Items in <b>BOLD</b> are		acland	Mine.	on Ru bro	ok he with	ark Dr	# 10 S	ewww.
BMPs. Check all that apply. SW = Stormwater	Mat	opec and Wassement	Washing	Pennet	Meado.	an Dr. SW Remed. DEL SH	at 10 Stormwater Pond	Hemioo
Activity		REMEDIATION	REMEDIATION	REMEDIATION	REMEDIATION			REMEDIATION
Pollution Generating Activities	Carmel	Carmel	Carmel	Carmel	Carmel	Carmel	Carmel	Carmel
Fertilizer application								
Pet waste present								
Pesticide application								
Stream bed dredging								
Creek bottom sediment removal								
Removal of woody debris			х					
Bank reshaping								x
Current BMPs in Place								
Fertilizer and pesticide usage records								
ntegrated pest management use								
rosion control practices used			х	х				х
Pet waste education								
Litter control	х							
Spill prevention and response	х							
Priority setting for streambank stabilization			х	х				x
projects			X	X				X
Jse of alternative soft engineering approaches			х					x
Inventory of stormwater ponds				х	х	х	х	
Stormwater pond maintenance program				x	х	х	х	
Staff trained in stormwater management	х							

# MS4 Stormwater Assessment: Street, Bridge and Parking Lot Maintenance – Kensico, Eastview and Pleasantville

# **General Notes**

<u>Bridges</u> – State, County and Towns maintain bridge decks and general bridge maintenance on all bridges except for Gatehouse Bridge "B".

<u>Street Sweeping</u> – Roads over dams are swept. No road sweeping is done on any other roads. Street sweepings are occasionally reused for maintenance.

<u>Vehicle Washing</u> – Staff now use vouchers to wash vehicles at a private facility that is connected to the sanitary sewer system.

# **Staff Contacts**

Louis Occhiuto is the Kensico Operations Manager Doug Walton is the Eastview Operations Manager

#### MS4 Stormwater Assessment:

#### Street, Bridge and Parking Lot Maintenance - Sheet 3 - Kensico, Eastview, Pleasantville

				ause	/ /				
			Ga	129E & HO-					
Date of visit: August 8 2018 Instructions: Place an "X" in the box if the activity occurs at a	- Facility	Name	Ward Managerance Ca	Shaff 18	aller a Staff 18	Fluoride	1.40	Precinct Pleasent	will humpant
location. Items in <b>BOLD</b> are <b>BMPs</b> . Check all that apply.	Facility	Kensice	Kensico	Office	Kensico	Fluoride Kensie	Eastview	Pleasan	shaft?
Activity	Category			í	Í ,	ĺ ,	Í	Í Ó	
	Туре								
Pollution Generating Activities	,	North Castle	Mount Pleasant		Mount Pleasant		Mount Pleasant	Mount Pleasant	North Castle
Sidewalks and parking lots cleaned		x	х	N/A	х	х	х	х	
Street maintenance		х	х	N/A	х	х	х	х	
Striping/painting performed		х	х	N/A	х		х	х	
Bridge and structure maintenance		х	x	N/A	x	х	x	х	
Ditch maintenance			x	N/A	x	N/A			
Maintenance of unpaved roads performed		х	х	N/A	x	х			
Winter road salting		х	х	N/A	x	х	х	х	
Salt storage on site		х	N/A	N/A	N/A	N/A			
Salt vehicle washing			N/A	N/A	N/A	N/A			
Current BMPs in Place									
Street sweeping		х	x	N/A	x	Х	x	Х	
Proper disposal of street sweepings		х	x	N/A	х	Х	х	х	
Salt spreaders calibrated/ maintained		х	x	N/A	x	Х	х		
Alternative deicing materials used			N/A	N/A	N/A	N/A			
Staff trained in stormwater management		х	x	N/A	x	х	х	х	
Erosion control for ditch maintenance			х	N/A	х	х			

# MS4 Stormwater Assessment: Building Maintenance – Kensico, Eastview and Pleasantville

# **General Notes**

<u>Universal Waste Program</u> – All Facilities send Russ Hanaburgh an email as needed regarding the hazardous, non-hazardous, universal, electronic and bulk waste that they have collected at their sites. This waste is then transported to the Croton Lake New Gate House for central collection and storage until removal.

<u>*Household Hazardous Waste*</u> – Triumverate Environmental or an on-call emergency waste management company collects periodically.

<u>Septic System Recording</u> – Jim Keesler maintains pink Slips required by the Westchester County Health Department.

<u>**Fueling Station**</u> – All vehicles fueling stations have double walled petroleum tanks with electronic leak detection.

# **Staff Contacts**

Bill Brenner is the WTO Compliance Manager. Sal Siciliano is the Field Supervisor for the Region.

				entre cases	House					Plant & Electric
Date of visit: July 22 & Aug 16 2021			Maint	ener 18	Trailer at Shaft	18		, set		Plant
Instructions: Place an "X" in the box if the activity occurs at a		N Name Ken	Manor	Shaft 10	Trailer at	sco Fluoride Ken	sico lab Fast	view Precinct Please	otville Alle	plan.
location. Items in BOLD are BMPs. Check all that apply.	Facili	in Ken	sico Kens	office	Kene	Hene	East	Please Please	Sall Sh	off CAT
Staff trained in stormwater management		х	х	х	х		х	х	х	х
Tertiary containment for hazardous waste, 90 days removal			х							
Secondary containment-petroleum/hazard			х						х	х
Concrete pad with secondary containment drain for delivery of chemicals			x		x			x	x	x
Standard operating procedure for chemical / fuel deliveries - storm drain closed off during delivery			x		x		x	x	x	x
Portable containment unit for decontamination - use inventory kept			х							
Enclosed outdoor storage containers			х							
Sump connected to sanitary sewer			х							
Contractor responsible for waste disposal per contract			х					х		
Weekly waste staging inspections			х							
Motorboats stored on concrete pad			х							
Screen cleaning water containerized and sent to municipal sewer plant			х							
Dumpster on concrete pad			х	х			х	х		

# Building Maintenance - Sheet 3 - Kensico, Eastview, Pleasantville

						/	/		/		
			SCO Nerror Maint		HOUSE		/	/ /	/		/ /
				101898 B						Plant & Electric	ic Shop
		/		ance Gai					/	at & Elect	/ /
Date of visit: July 22 & Aug 16 2021			Maint	18	a Trailer at Shaft	10 .48		vew Precinct	NUM	Plan	DELUVPant
Instructions: Place an "X" in the box if the activity occurs at a		w Name	ico Manor	co Shart	Trailerat	co Fluono	colab	I ON PIECI	antville Ar	.11	DELUVI
location. Items in <b>BOLD</b> are <b>BMPs</b> . Check all that apply.	Facil	N Name Ker	isio Kens	office	kene	sco Fuoride Ken	sico Lab	Please	su sh	att CA	
Activity	Category										
	Туре										
		North	Mount	Mount	Mount	Mount	Mount	Mount	North	Valhalla	
Pollution Generating Activities		Castle	Pleasant	Pleasant	Pleasant	Pleasant	Pleasant	Pleasant	Castle	Vanana	
Contractor used for maintenance		х	х		х	ļ	х	x			
Bulk petroleum storage		х	х		х		х		Х	Х	
Hazardous materials storage		х	х		х		х	х		х	
Outdoor loading / unloading of materials		х	х		х		х	x	х	х	
Outdoor container storage of liquids			х		х		х	х			
Outdoor storage of raw materials		х	х		х		х	х			
Roof drainage systems		х				х	х	х			
Building washing performed											
Sidewalk cleaning (powerwashing)							х				
Sidewalk salting		х	х		х		х	х	х	х	
On-site septic systems		х									
Outside dumpster		х	х	х			х	х			
Contractor activity generating waste materials			х					х			
Current BMPs in Place											
Erosion control for new construction			х		х		х	х			
Alternative product usage											
Fluorescent light recycling		х	х	х	х	х	х	х	х	х	
Paper/plastic recycling		х	х	х	х	х	х	х	х	х	
Animal waste program											
Hazardous waste collection			х							х	
Spill prevention and response		х	х	х	х	х	х	х	х	х	
Septic inspections and recordkeeping		х									

# MS4 Stormwater Assessment: Open Space, Streambank and Hydraulic Habitat Maintenance – Kensico, Eastview and Pleasantville

#### **General Notes**

*Fertilizers* – Fertilizers are not used on watershed lands

*<u>Herbicides/Pesticides</u>* – Herbicides are used on dam faces to control weeds. Rodent control is performed to eliminate rodent burrows by smoking out animals and plugging the burrow with concrete.

<u>*Woody Debris*</u> – Woody material from roads and lawns is chipped and spread neatly in a nearby wooded area.

*Litter Control* - Litter is collected, as needed, especially near public fishing areas and disposed of by solid waste carriers.

# **Staff Contacts**

Michael Parks is a licensed pesticide applicator. Matt Gianetta keeps Stormwater practices inventory. Joe Zaminski maintenance of Stormwater ponds.

# Open Space, Streambank and Hydrologic Habitat Maintenance - Sheet 3 - Kensico, Eastview,

#### MS4 Stormwater Assessment:

Pleasantville

		o Marce Mainters	ance Garage?	House	ands and Steams			
Date of visit: 8/18/2021		Mainter	1801	our	and			
Instructions: Place an "X" in the box if the activity occurs at a		Manor	Shaft	CON Preciti	1			
location. Items in BOLD are BMPs. Check all that apply.	Kensi	yensi	East	we sha	ATT UNP			
Activity								
Pollution Generating Activities	North Castle	Mount Pleasant	Mount Pleasant	North Castle	Valhalla			
Fertilizer application		N/A						
Pet waste present		x						
Pesticide application		х						
Stream bed dredging		N/A						
Creek bottom sediment removal		N/A						
Removal of woody debris	х	N/A						
Bank reshaping		N/A						
Current BMPs in Place								
Fertilizer and pesticide usage records		Х						
Integrated pest management use		Х						
Erosion control practices used Pet waste education	X		Х					
Litter control								
Spill prevention and response	v	V	X X		x x			
Priority setting for streambank stabilization projects	X	x x	~		×			
Use of alternative soft engineering approaches	+	~						
Inventory of stormwater ponds	+	х	x	х	x			
Stormwater pond / sand filter maintenance program	+	x	x	x	x			
Staff trained in stormwater management	x	x	x	~	x			
Grass clippings blown off of pavement on to grassed area to	^		^					
prevent washing into storm drains		Х			X			