

The Stormwater Coalition Training Blitz

Track 2 Officials/Management/Others The Stormwater Regulations and Future MS4 Permit

*In fulfillment of MS4 Permit training requirements
February to March, 2020*



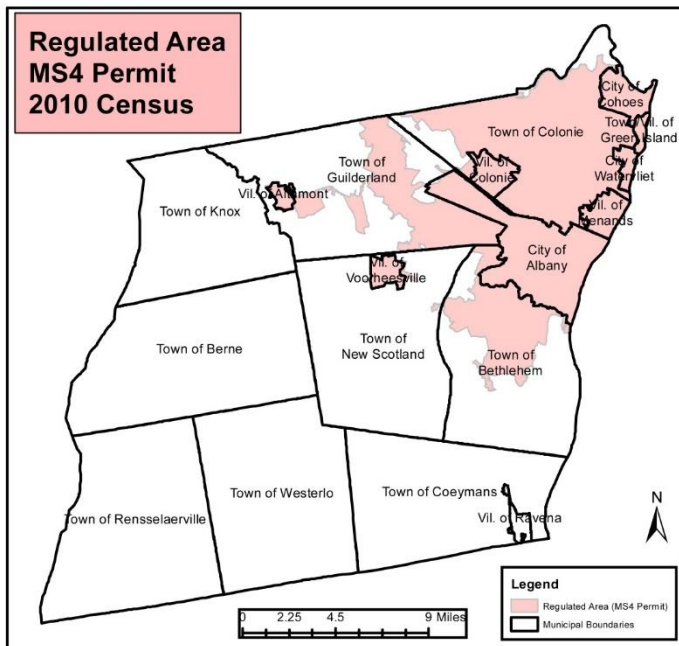
*Nancy Heinzen, Coalition Director
Albany County Health Dept Building
175 Green Street, Room B026
518-447-5645; www.stormwateralbanycounty.org*

**Stormwater Coalition of Albany County
Education, Participation, Compliance**

*Albany County; City of Albany; Town of Bethlehem; City of Cohoes; Town of Colonie; Village of Green Island;
Town of Guilderland; Village of Menands; Town of New Scotland; Village of Voorheesville, City of Watervliet; University at Albany -SUNY*

This presentation is brought to you by the Stormwater Coalition of Albany County

an inter-municipal, intergovernmental approach
to “MS4” stormwater permit compliance with many
“lessons learned” to share.



Coalition Members

City of Cohoes
City of Watervliet
City of Albany

Town of Colonie
Town of Guilderland
Town Bethlehem
Town of New Scotland

Village of Green Island
Village of Menands
Village of Voorheesville

Albany County
University at Albany

The Stormwater Regulations and Future MS4 Permit

I. The Clean Water Act

- History
- The SPDES Concept Map
- Fines and Audits

II. MS4 Permit Tasks and Your Role

III. The Future MS4 Permit

IV. Proudest Accomplishments

V. Questions and Sign Out

Water pollution is regulated...

1972 Federal Clean Water Act

Required the regulation of Point Source discharges of pollutants to the “Waters of the U.S.”

NPDES Permits (EPA) “Nipdies” Permit

National Pollutant Discharge Elimination System Permits

Environmental Protection Agency (EPA) authorized the New York State Department of Environmental Conservation (NYSDEC) to administer a State Clean Water Act permit program

SPDES Permits (NYSDEC) “Speedies” Permit

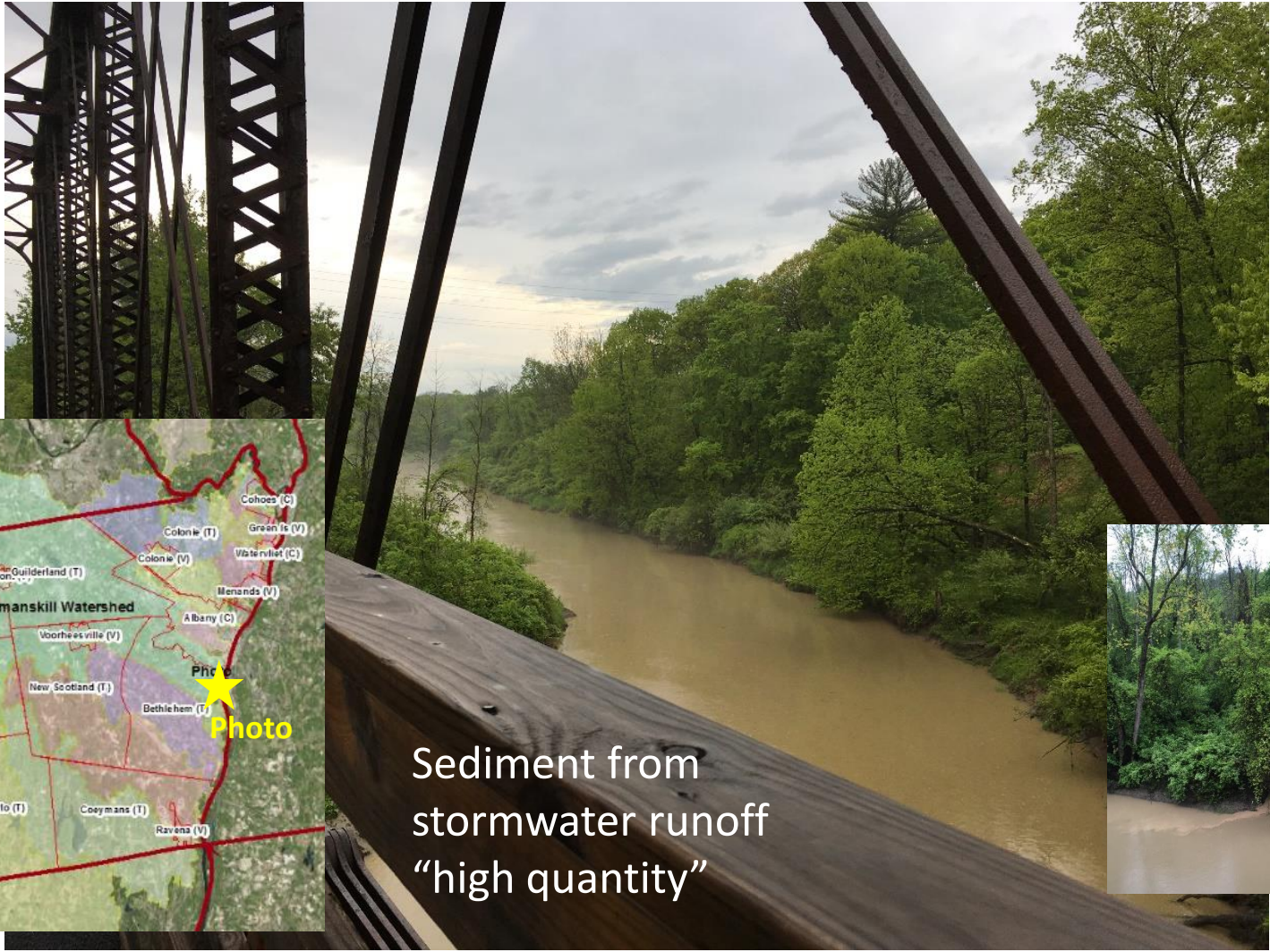
State Pollutant Discharge Elimination System Permits
(minimally includes everything in a NPDES permit, plus more as determined by NYSDEC)

Nationwide Urban Runoff Program

- EPA funded series of studies and projects
- 1978 to 1983
- What EPA learned...

“...**stormwater contained** many of the same conventional and **toxic pollutants** regulated from process outfalls and publicly owned treatment works, **sometimes** in very **high quantities**”

May 20, 2019 Normanskill Creek, 7:53 am
(Mohawk Hudson Bike Trail bridge)



Runoff Pollutants: Phosphorus, Nitrate, Potassium, Copper, Lead, Zinc, Fecal Coliform, Total Solids, Petroleum, More.... **SOURCE:** Various items and behaviors

1987 Amendments to the Federal Clean Water Act

(created stormwater discharge permits, phased implementation)

- **Phase I promulgated in 1990**
 - Large municipalities
 - Construction disturbing >5 acres
 - Industrial activities
- **Phase II promulgated in 1999**
 - Smaller municipalities (small cities, towns, villages, counties)
 - Schools, universities
 - Construction disturbing >1acre
 - Industrial activities

Also Animal Feeding Operations (CAFOs) included in 1987 Amendments

Current Stormwater Discharge Permits

- **Phase II promulgated in 1999 (first permits issued in 2003)**
 - Smaller municipalities** (small cities, towns, villages, counties), **schools**, and **universities**

NYSDEC SPDES General Permit for Stormwater Discharges From
Municipal Separated Storm Sewer System (MS4s) Permit No. GP-0-15-003
Issued: 5/1/2015 Expires: 4/30/2017 (but still in effect)
 - Construction disturbing >1acre**

NYSDEC SPDES General Permit for Stormwater Discharges From
Construction Activity Permit No. GP-0-20-001
Issued: 1/29/2020 Expires: 1/28/2025
 - Industrial activities**

NYSDEC SPDES Multi-Sector General Permit for Stormwater Discharges
Associated With Industrial Activity Permit No. GP-0-17-004
Issued: 3/1/2018 Expires: 2/28/2023

The Stormwater Discharge Permits...

Construction Activity Permit

(>1 acre everywhere)

Multi-Sector Industrial Activities Permit

(28 sectors eligible for coverage)

The Municipal Separated Storm Sewer System (MS4) Permit

- mandated oversight of Construction Activity Permits
- mandated Multi-Sector permit coverage for municipal facilities considered industrial
- many other requirements (minimum control measures)

	40
	41
	42
	43
	44
	45
	46
	47
	48
	49
	50
	51
	52
	53
	54
	55
	56
	57
	58
	59
	60
	61
	62
	63
	64
	65
	66
	67
	68
	69
	70
	71
	72
	73
	74
	75
	76
	77
	78
	79
	80
	81
	82
	83
	84
	85
	86
	87
	88
	89
	90
	91
	92
	93
	94
	95
	96
	97
	98
	99
	100

The Stormwater Discharge Permits...

Construction Activity Permit

(>1 acre everywhere)

The Municipal Separated Storm Sewer System (MS4) Permit

- mandated oversight of Construction Activity Permits
- mandated Multi-Sector permit coverage for municipal facilities considered industrial
- many other requirements (minimum control measures)

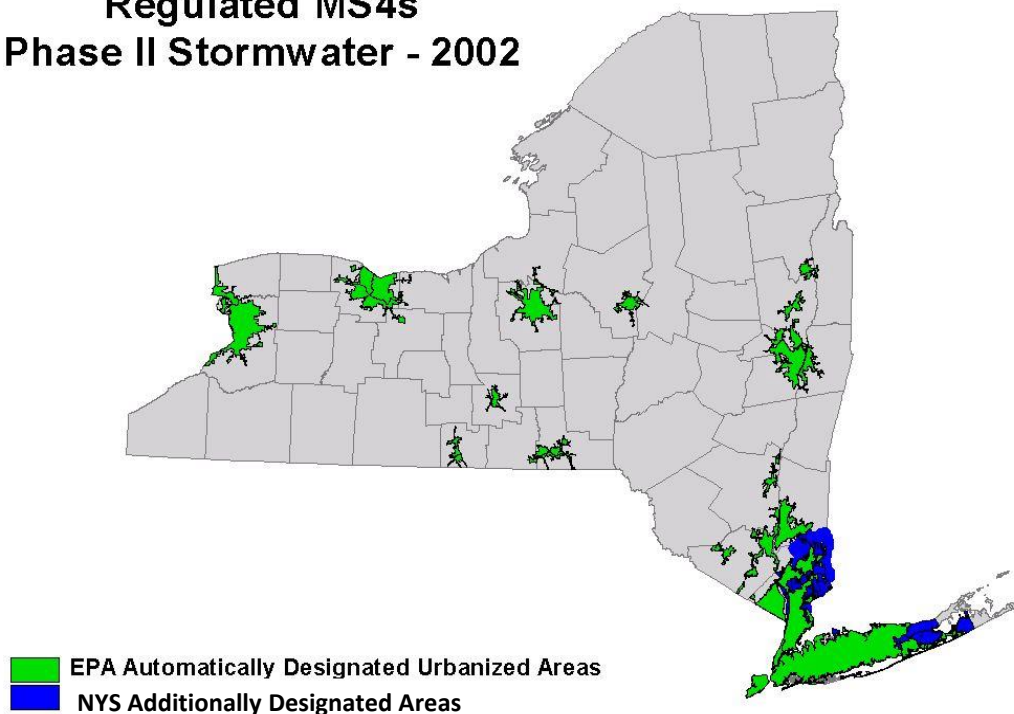
Multi-Sector Industrial Activities Permit (29 Sectors Eligible for Coverage)

SECTOR 1 - AIRCRAFT MANUFACTURING	100
SECTOR 2 - BLACK, CLAY, CHINA, CONCRETE & GLASS PRODUCTS	85
SECTOR 3 - FERRIC METALS	85
SECTOR 4 - NON-FERRIC METALS	47
SECTOR 5 - CHEMICALS (ORGANIC & INORGANIC)	72
SECTOR 6 - FOODS	70
SECTOR 7 - LUMBER, WOOD & WOOD PRODUCTS	33
SECTOR 8 - LUMBER, WOOD & WOOD PRODUCTS (PULP & PAPER)	33
SECTOR 9 - LUMBER, WOOD & WOOD PRODUCTS (PULP & PAPER)	33
SECTOR 10 - LUMBER, WOOD & WOOD PRODUCTS (PULP & PAPER)	33
SECTOR 11 - LUMBER, WOOD & WOOD PRODUCTS (PULP & PAPER)	33
SECTOR 12 - LUMBER, WOOD & WOOD PRODUCTS (PULP & PAPER)	33
SECTOR 13 - LUMBER, WOOD & WOOD PRODUCTS (PULP & PAPER)	33
SECTOR 14 - LUMBER, WOOD & WOOD PRODUCTS (PULP & PAPER)	33
SECTOR 15 - LUMBER, WOOD & WOOD PRODUCTS (PULP & PAPER)	33
SECTOR 16 - LUMBER, WOOD & WOOD PRODUCTS (PULP & PAPER)	33
SECTOR 17 - LUMBER, WOOD & WOOD PRODUCTS (PULP & PAPER)	33
SECTOR 18 - LUMBER, WOOD & WOOD PRODUCTS (PULP & PAPER)	33
SECTOR 19 - LUMBER, WOOD & WOOD PRODUCTS (PULP & PAPER)	33
SECTOR 20 - LUMBER, WOOD & WOOD PRODUCTS (PULP & PAPER)	33
SECTOR 21 - LUMBER, WOOD & WOOD PRODUCTS (PULP & PAPER)	33
SECTOR 22 - LUMBER, WOOD & WOOD PRODUCTS (PULP & PAPER)	33
SECTOR 23 - LUMBER, WOOD & WOOD PRODUCTS (PULP & PAPER)	33
SECTOR 24 - LUMBER, WOOD & WOOD PRODUCTS (PULP & PAPER)	33
SECTOR 25 - LUMBER, WOOD & WOOD PRODUCTS (PULP & PAPER)	33
SECTOR 26 - LUMBER, WOOD & WOOD PRODUCTS (PULP & PAPER)	33
SECTOR 27 - LUMBER, WOOD & WOOD PRODUCTS (PULP & PAPER)	33
SECTOR 28 - LUMBER, WOOD & WOOD PRODUCTS (PULP & PAPER)	33
SECTOR 29 - LUMBER, WOOD & WOOD PRODUCTS (PULP & PAPER)	33

MS4 PERMIT

What/who is an “MS4”?

Regulated MS4s
Phase II Stormwater - 2002



Urbanized area = 1,000 people per square mile or more.

- Publicly owned entity
- In urbanized area
- Owner-operator of separated storm sewer system infrastructure
- Storm lines NOT combined with sanitary lines

“MS4”- = **m**unicipal **S**eparated **S**torm **S**ewer **S**ystem.

Urbanized Area

Storm
Drain/Catch
Basin

Conveyance System

Outfall

Receiving Stream



Separated Storm Sewer System Infrastructure

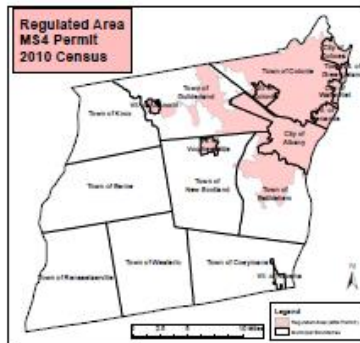
Regulated MS4 Area & "MS4" areas for the County and University at Albany

Non-Traditional MS4 (University at Albany) and Traditional MS4-No land use control (Albany County)

*Map also used as Map 4 of the TAAW.

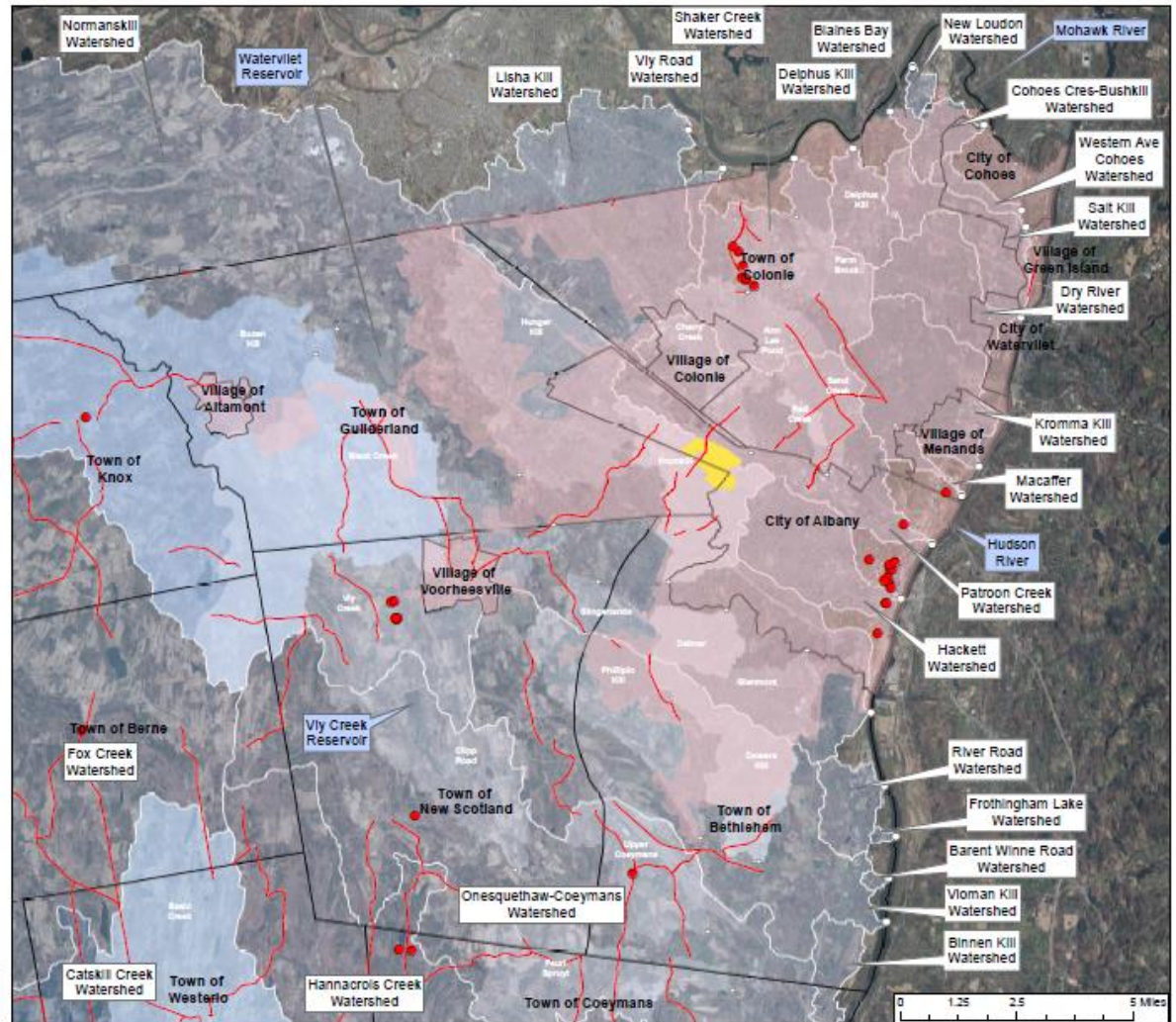
Legend

- Albany County Facilities
- Albany County Roads
- Watershed Delineation Point
- Subwatershed Delineation Point
- Regulated Area (MS4 Permit)
- Municipal Boundaries
- University at Albany Facility-Uptown Campus
- Watersheds



Prepared by the Stormwater Coalition of Albany County
Date: January 2016
File: County&SUNY_29Jan2016_FINAL.mxd

Stormwater Coalition of Albany County
Albany County, City of Albany, Town of Bethlehem, City of Cohoes, Town of Colonie, Village of Colonie, Village of Green Island, Town of Guilderland, Village of Menands, Town of New Scotland, City of Watervliet, University at Albany-SUNY



**If you work in an “MS4”,
what are the MS4 SPDES permit requirements?**

**~2006 advice from a retired
Division of Water
NYSDEC regulator**

“READ THE PERMIT(S)”.

Taking a look....

Content	MS4	Construction Activity	Multi-Sector (Industrial)
Cover Page	Similar	Similar	Similar
Obtaining Coverage	Submit Notice of Intent (NOI), SWMP details	Submit NOI, SWPPP details	Submit NOI, SWPPP details
Record Keeping, Reporting	Similar	Similar	Similar
Standard Permit Conditions	Same	Same	Same
Enforcement (TOGS schedule, permit specific)	\$37,500/day/violation	\$37,500/day/violation	\$37,500/day/violation
Permit Specific			
SWPPP- Stormwater Pollution Prevention Plans ('swip')		X	X
SWMP - Stormwater Mgmt Program Requirements (Administrative) ('swamp')	X		
SWMP - Stormwater Management Program Requirements (Minimum Control Measures)	X		
MS4 Permit Overlap with Construction Permit	Develop, implement, and enforce a program equivalent to the NYS SPDES General Permit for Construction Activity requirements	To receive Construction Activity Permit coverage, if located in an MS4 municipality (Town, Village, or City), a signed MS4 SWPPP Acceptance Form is submitted w/Notice of Intent	
MS4 Permit Overlap with Multi-Sector Permit			MS4 needs MSGP coverage if they own certain types of 'industrial' facilities - Applicable Sectors (S, D, C, E, K, L, Q, J, N, P, T).

MS4 Permit Requirements - Minimum Control Measures

Storm Drain-
Catch Basin



Conveyance System



Outfall



Receiving Stream

MCM 1- Public Education and Outreach

Identify type/source of pollution, identify target audience/develop message, multiple tactics & outlets. Change behavior!



MCM 2 - Public Participation Stream monitoring/WAVE; plant trees; stream clean ups; public comments-Annual Report and Stormwater Mgmt Plans



MS4 Permit Requirements - Minimum Control Measures

Storm
Drain/Catch
Basin



Conveyance System



Outfall



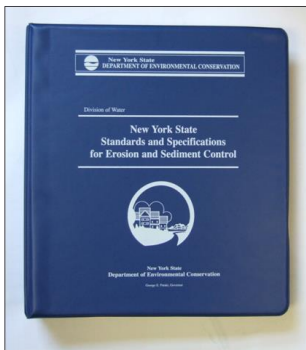
Receiving Stream

MCM 3 – Illicit Discharge Detection and Elimination - Map storm system and outfalls. Inspect during dry weather all outfalls every five years. If stormwater pollution present, identify the source, remove it. Take enforcement action using powers embedded in IDDE local law.

MCM 4 Construction Site Stormwater Runoff Control and MCM 5 Post Construction Stormwater Management

MS4 staff review **Construction Activity Permit SWPPPs**...sign MS4 SWPPP Acceptance Forms; **develop/approve maintenance plans** for permanent stormwater practices, **inspect** active construction **sites**; **inspect** permanent **practices**, inventories, **record keeping**

Erosion and Sediment Control



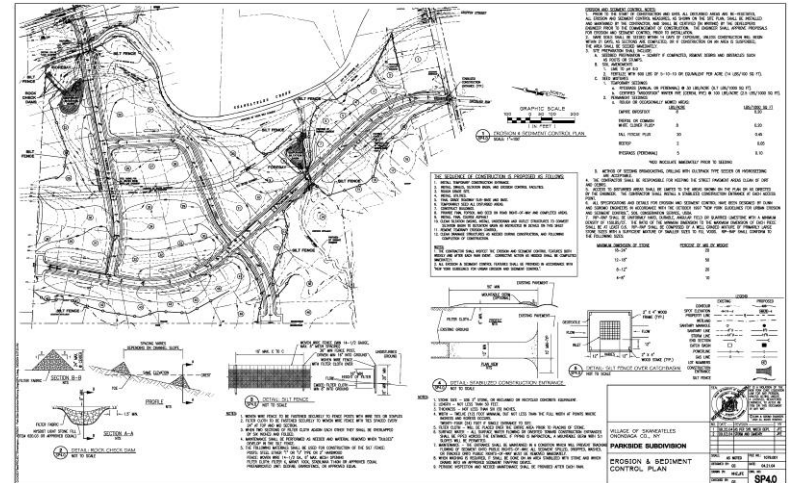
DURING CONSTRUCTION

Standards & Specs

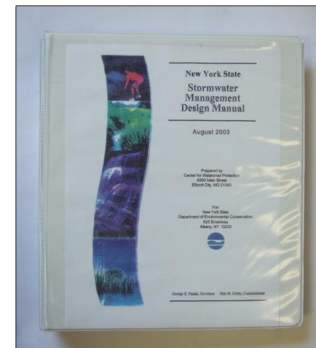


many E/SC practices
silt fences etc.

Construction Activity Permit Stormwater Pollution Prevention Plan (SWPPP) Drawings and Narrative



Water Quality & Water Quantity Control



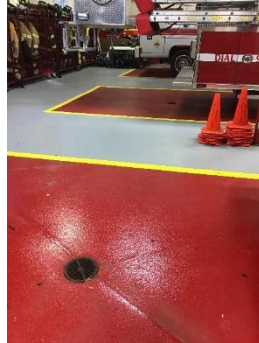
POST CONSTRUCTION

Design Options & Requirements



Permanent sw mgmt
practices, ponds, rain
gardens, etc.

MCM6 - Pollution Prevention/Good Housekeeping for Municipal Operations – Prevent stormwater pollution from entering the storm lines at DPW garages, fire stations, pump stations, fueling stations, parks. Clean out your catch basins, sweep your streets, cover up road salt piles.



If industrial discharges at a municipal facility, get **Multi-Sector General Permit coverage**.

If disturbing >1 acre of municipal owned property, get **Construction Activity Permit coverage**.

Facility	Sector
Airports	S
Asphalt or concrete batch plants	D
Composting facilities	C
Concrete Batch Plants	E
Hazardous Waste Disposal Facilities	K
Hazardous Waste Handling & Transfer Facilities	K
Landfills, operating or closed	L
Marijuana	O
Mines and gravel pits	J
Recycling facilities	N
Solid waste handling and transfer facilities	N
Vehicle and fleet maintenance facilities	P
Treatment Works (WWTPs)	T

Table 5



Ex. Town owned water treatment plant expansion

NYSDEC Stormwater Page website

(links to these permits)

<https://www.dec.ny.gov/chemical/8468.html>

**ALWAYS SCROLL DOWN !!!!!
READ CAREFULLY**

The Stormwater Permits...one of many.

All SPDES Permits

Purpose: control what is discharged into “Waters of United States” or for NY “Waters of New York State”

- The discharge location is called an outfall
- Each outfall is associated with a particular SPDES permit and distinct ‘water quality’ infrastructure
- Permits vary in type, purpose
- Implementing the MS4 Permit requires a clear understanding of water quality infrastructure and associated outfalls

The Stormwater Permits...one of many.

All SPDES Permits

Purpose: control what is discharged into “Waters of United States” or for NY “Waters of New York State”

- The discharge location is called an outfall
- Each outfall is associated with a particular SPDES permit and distinct ‘water quality’ infrastructure
- Permits vary in type, purpose
- **Implementing the MS4 Permit requires a clear understanding of water quality infrastructure and associated outfalls**

The Stormwater Permits...one of many.

All SPDES Permits

Purpose: control what is discharged into “Waters of United States” or for NY “Waters of New York State”

- The discharge location is called an outfall
- Each outfall is associated with a particular SPDES permit and distinct ‘water quality’ infrastructure
- Permits vary in type, purpose
- **Implementing the MS4 Permit requires a clear understanding of water quality infrastructure and associated outfalls**

	ALBANY COUNTY SPDES PERMITS (1980, 2011, 2019)							
Categories	INDIVIDUAL				GENERAL			
Description	Factories; Sewage Treatment Plants; Other	SSO	CSO	CAFO	MS4	Construction Activity	MSGP	
		Sanitary Sewer Overflows	Combined Sewer Overflow	Concentrated Animal Feeding Operation (Livestock)	Municipal Separated Storm Sewer System	Land disturbance > 1 acre; During and Post Construction SW Mgmt	Multi-Sector General Permit (Industrial)	
		Sanitary	Sanitary + Storm	Stormwater	Stormwater		Stormwater	
Primary Pollutants of Concern (POCs)	Variable; Depends on Type of Facility	Bacteria	Bacteria and Urban Runoff (Multiple POCs)	Nutrients	Urban Runoff (Multiple POCs), Flow	Sediment; Phosphorus, Nitrogen, Flow	Variable. Depends on type of facility or sector as defined in the permit	
# of SPDES Permits In Albany County (Active)	EPA Major (Classes 03, 05) State Significant Minor (Classes 01, 07, 09)	State Non-Significant Minor (Classes 02, 04)						
1980 (Total=25)	21	no data	1	3	0	0	0	0
2011 (Total=477)	53	100	1	4	3	15	252 (active); 251 (terminated)	49 (active); 22 (no exposure); 19 (terminated)
2019 (Total=501)	47	74	0	4	1	15 (Albany County); 8 (State-wide HQ in Albany County)	309 (active); 596 (terminated)	51 (active); 18 (no exposure) and 18 (terminated) Jan, 2019 data
Permit "Owner-Operator"	Factory Owner; Sewage Treatment Plant Owner (Public and Private Sector)	Factory Owner; Sewage Treatment Plant Owner (Private Sector)	Owner of Sanitary System	Municipality Where CSO is Located	Owner of Livestock Operation	Owner of Public Storm System (Municipality; County; Public University; Community College; Authority; State Agencies)	Anyone disturbing > 1 acre of land Requires a SWPPP (Stormwater Pollution Prevention Plan)	Anyone who owns a facility which qualifies as a regulated sector as described in the permit. Requires a SWPPP (Stormwater Pollution Prevention Plan)
County or Local Municipality Enforcement Action and Fines	NA					MS4 will take enforcement in the areas under MS4 authority.	NA	

Acronyms. Which infrastructure? Which pollutants? Ownership? Who enforces?

Federal Clean Water Act- Enforcement Action and Fines

Depends on violation and EPA's enforcement procedures for a given program. Penalties are not calculated until compliance is achieved.

Note: Data compiled by NYSDEC Region 4 staff for the Stormwater Coalition of Albany County (December 9, 2011 & October 16, 2019)

	ALBANY COUNTY SPDES PERMITS (1980, 2011, 2019)							
Categories	INDIVIDUAL				GENERAL			
Description	Factories; Sewage Treatment Plants; Other		SSO	CSO	CAFO	MS4	Construction Activity	MSGP
			Sanitary Sewer Overflows	Combined Sewer Overflow	Concentrated Animal Feeding Operation (Livestock)	Municipal Separated Storm Sewer System	Land disturbance > 1 acre; During and Post Construction SW Mgmt	Multi-Sector General Permit (Industrial)
			Sanitary	Sanitary + Storm	Stormwater	Stormwater		Stormwater
Primary Pollutants of Concern (POCs)	Variable; Depends on Type of Facility		Bacteria	Bacteria and Urban Runoff (Multiple POCs)	Nutrients	Urban Runoff (Multiple POCs), Flow	Sediment; Phosphorus, Nitrogen, Flow	Variable. Depends on type of facility or sector as defined in the permit
# of SPDES Permits In Albany County (Active)	EPA Major (Classes 03, 05) State Significant Minor (Classes 01, 07, 09)	State Non-Significant Minor (Classes 02, 04)						
1980 (Total=25)	21	no data	1	3	0	0	0	0
2011 (Total=477)	53	100	1	4	3	15	252 (active); 251 (terminated)	49 (active); 22 (no exposure); 19 (terminated)
2019 (Total=501)	47	74	0	4	1	15 (Albany County); 8 (State-wide HQ in Albany County)	309 (active); 596 (terminated)	51 (active); 18 (no exposure) and 18 (terminated) Jan, 2019 data
Permit "Owner-Operator"	Factory Owner; Sewage Treatment Plant Owner (Public and Private Sector)	Factory Owner; Sewage Treatment Plant Owner (Private Sector)	Owner of Sanitary System	Municipality Where CSO is Located	Owner of Livestock Operation	Owner of Public Storm System (Municipality; County; Public University; Community College; Authority; State Agencies)	Anyone disturbing > 1 acre of land Requires a SWPPP (Stormwater Pollution Prevention Plan)	Anyone who owns a facility which qualifies as a regulated sector as described in the permit. Requires a SWPPP (Stormwater Pollution Prevention Plan)
County or Local Municipality Enforcement Action and Fines	NA						MS4 will take enforcement in the areas under MS4 authority.	NA
NYS Environmental Conservation Law Enforcement Action and Fines	The enforcement action take depends on the violation. The procedure for enforcement is described in the NYSDEC TOGS 1.4.2 Compliance and Enforcement of State Pollutant Discharge Elimination System (SPDES) Permits. Standard Permit Conditions: Failure of the covered entity, its contractors, sub-contractors, agents and/or assigns to strictly adhere to any of the SPDES General Permit requirements contained herein shall constitute a permit violation. There are substantial criminal, civil, and administrative penalties associated with violating the provisions of this permit. Fines up to \$37,500 per day for each violation and imprisonment for up to fifteen (15) years may be assessed depending upon the nature and degree of the offense. (All SPDES Permits have this language)							
Federal Clean Water Act- Enforcement Action and Fines	Depends on violation and EPA's enforcement procedures for a given program. Penalties are not calculated until compliance is achieved.							

Note: Data compiled by NYSDEC Region 4 staff for the Stormwater Coalition of Albany County (December 9, 2011 & October 16, 2019)

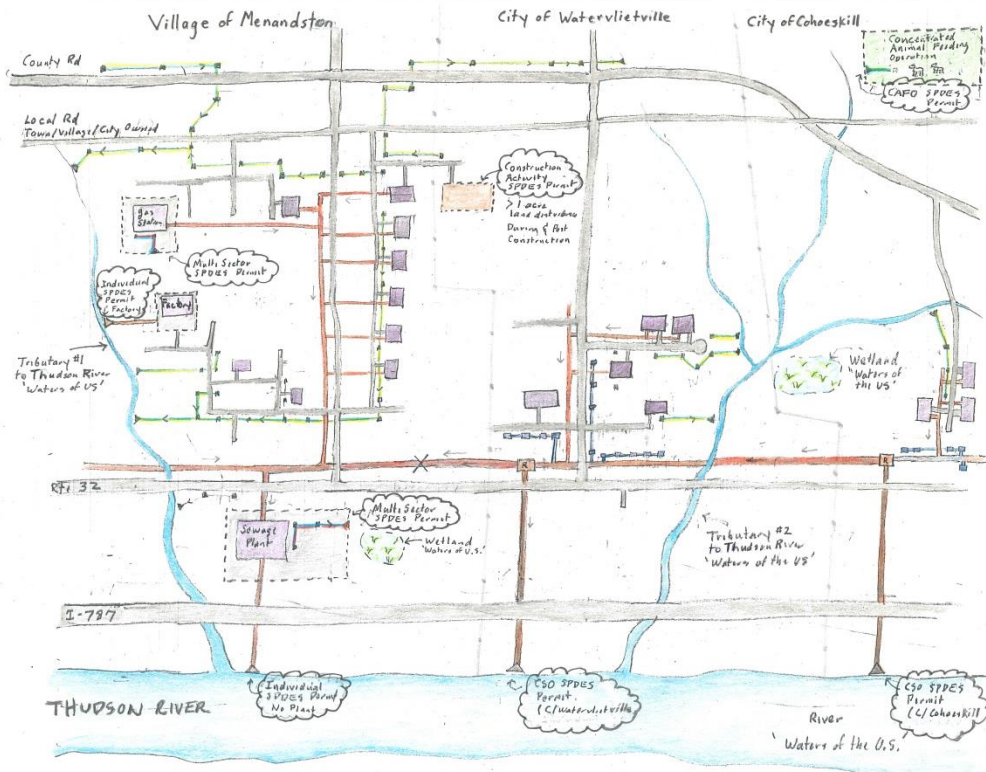
SPDES Permit Concept Map

– a tool to help understand these SPDES Permits

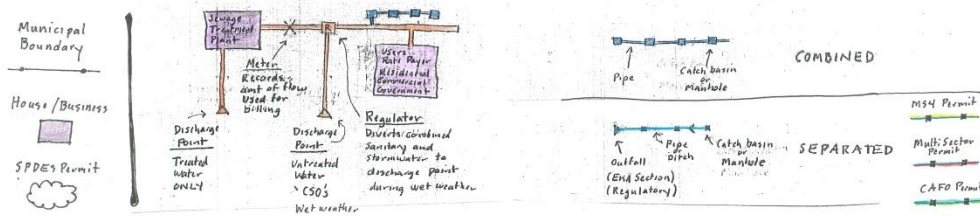
An imaginary walk along the Thudson River while...

passing through the Village of Menandston, City of Watervlietville, and City of Cohoesville and visiting a few tributaries along the way.

SPDES Permits Concept Map



KEY:



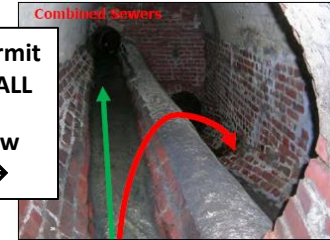
Individual Permit

Factories, Wastewater Treatment
Plants, Complex Facility
OUTFALLS
(Discharge Treated Liquid Waste)



Individual Permit "CSO" OUTFALL

"R" Overflow
structure→



General Permit

STORMWATER OUTFALL
MS4-Municipal Separated
Storm Sewer System Permit



General Permit

STORMWATER OUTFALL
Construction Activity Permit



General Permit

STORMWATER OUTFALL
Multi-Sector Permit
Industrial Site—Landfill "MSGP" Permit



Walking Left to Right (upstream)

1. The KEY

- a. Municipal boundary
- b. House/Business
- c. SPDES Permits
- d. Roads
- e. Tributary #1 and #2

2. Village of Menandston

- a. Sanitary Line Only (wastewater – toilets, other waste from operations)
 - Outfall (triangle) – discharge point, after treatment
- b. Storm Lines (Separated Storm Sewer System Infrastructure)
 - Along roads
 - Typically drains to tributaries – discharge point (outfall)
 - Private or public ownership
- c. Different types of SPDES Permits within one municipality
 - Different owners (public or private)
 - Multi-Sector SPDES Permit – discharge point (outfall)
(gas station-private & sewage plant-public)
 - Individual SPDES (factory-private & sewage plant-public)
 - MS4 SPDES Permit (public only, many discharge points, many outfalls)
 - Village and County MS4 Permittees

Walking Left to Right (upstream) – cont'd

3. City of Watervlietville

a. Sanitary Lines Connected to Storm Lines

- Location of Storm Lines

 - (Catch basins -collect stormwater runoff)

 - (Pipes – transport stormwater runoff)

- Location of regulators (design and purpose)

- Location of discharge point to Thudson River (CSO outfall) – reduce flow!

- Location of meter for billing purposes

b. Storm Lines (Separated Storm Sewer System)

c. Construction Activity SPDES Permit

- Greater than 1 acre of land disturbed - NYSDEC issues permit coverage

- If the Construction Activity occurs within a regulated “MS4”

 - then before NYSDEC issues permit coverage the municipality must review and approve all aspects of the land disturbance (erosion and sediment control and design of permanent stormwater practices)

- If Construction Activity occurs within a municipality which is not a regulated MS4 municipality, the municipality is not mandated to review and approve all aspects of the land disturbance. NYSDEC issues permit coverage independently – there’s no mandated permit paperwork indicating that the municipal was aware of and/or reviewed the SWPPP

Walking Left to Right (upstream) – cont'd

4. City of Cohoesville

a. Sanitary Lines Connected to Storm Lines

- Location of Storm Lines

(Catch basins -collect stormwater runoff)

(Pipes – transport stormwater runoff)

-Location of regulators (design and purpose)

-Location of discharge point to Thudson River (CSO outfall) – reduce flow!

b. Storm Lines (Separated Storm Sewer System)

c. Concentrated Animal Feeding Operation (CAFO Permit)

-Rural areas – nutrient management important

-Permits issued by NYSDEC directly, little contact with municipalities

5. Tributary #2

a. Two municipalities share the same watershed – inter-municipal cooperation?

b. As the number of municipalities within a small geographic area increases, more municipalities located within watersheds

Concept Map Activity

(Assume all of the municipalities have MS4 Permit coverage)

1. How many MS4 outfalls are discharging to Tributary #2?
2. How many MS4 outfalls owned by the City of Cohoesville are discharging to Tributary #2?
3. How many CSO outfalls are discharging directly to the Thudson River?
4. Does the Village of Menandston own a CSO outfall?
5. What two SPDES permits are owned/managed by the Sewage Treatment plant?
6. What type of facility has an Individual SPDES permit which is discharging to Tributary #1?
7. Does the County Rd separated storm system infrastructure tie into the Village of Menandston separated storm system infrastructure?
8. Which municipality has an active Construction Activity SPDES permit within their boundary?
9. Which municipality has an active Concentrated Animal Feeding Operation (CAFO) SPDES Permit within their boundary?

If Stormwater Permit requirements are ignored?

Content	MS4	Construction Activity	Multi-Sector (Industrial)
Cover Page	Similar	Similar	Similar
Obtaining Coverage	Submit Notice of Intent (NOI), SWMP details	Submit NOI, SWPPP details	Submit NOI, SWPPP details
Record Keeping, Reporting	Similar	Similar	Similar
Standard Permit Conditions	Same	Same	Same
Enforcement (TOGS schedule, permit specific)	\$37,500/day/violation	\$37,500/day/violation	\$37,500/day/violation
Permit Specific			
SWPPP - Stormwater Pollution Prevention Plans (<i>'swip'</i>)		X	X
SWMP - Stormwater Mgmt Program Requirements (Administrative) (<i>'swamp'</i>)	X		
SWMP - Stormwater Management Program Requirements (Minimum Control Measures)	X		
MS4 Permit Overlap with Construction Permit	Develop, implement, and enforce a program equivalent to the NYS SPDES General Permit for Construction Activity requirements	To receive Construction Activity Permit coverage, if located in an MS4 municipality (Town, Village, or City), a signed MS4 SWPPP Acceptance Form is submitted w/Notice of Intent	
MS4 Permit Overlap with Multi-Sector Permit			MS4 needs MSGP coverage if they own certain types of 'industrial' facilities - Applicable Sectors (S, D, C, E, K, L, Q, J, N, P, T).



MEMORANDUM

*** NOTICE ***

This document has been developed to provide Department of Environmental Conservation staff with guidance on how to ensure compliance with statutory and regulatory requirements, including case law interpretations, and to provide consistent treatment of similar situations. This document may also be used by the public to gain technical guidance and insight regarding how the Department staff may analyze an issue and factors in their consideration of particular facts and circumstances. This guidance document is not a fixed rule under the State Administrative Procedure Act section 102(2)(a)(i). Furthermore, nothing set forth herein prevents staff from varying from this guidance as the specific facts and circumstances may dictate, provided staff's actions comply with applicable statutory and regulatory requirements. This document does not create any enforceable rights for the benefit of any party.

Date: JUN 24 2010
TO: Regional Water Engineers, Bureau Directors, Section Chiefs
SUBJECT: Division of Water Technical and Operational Guidance Series (1.4.2)
COMPLIANCE AND ENFORCEMENT OF SPDES PERMITS
(Originators: Meredith Streeter/Karen Baker)

I. PURPOSE

This document establishes the Division of Water's (DOW) guidance on compliance and enforcement activities related to the State Pollutant Discharge Elimination System (SPDES) program. It provides DOW staff with enforcement options and operating guidelines to implement the compliance component of the program.

The goal of this guidance is to ensure consistent statewide understanding and implementation of the SPDES compliance and enforcement program in order to protect public health and the intended best use of the waters of the state. This guidance supercedes *Division of Water Technical and Operational Guidance Series (1.4.2) Compliance and Enforcement of SPDES Permits*, dated September 30, 1988.

NYSDEC Penalty Rates

**\$37,500 per day
per violation**

"TOGS"

**NYSDEC Division of Water
Technical and Operational
Guidance Series (1.4.2)**

**COMPLIANCE AND
ENFORCEMENT OF SPDES
PERMITS**

Date: June 24, 2010

MS4 General Permit

F. Municipal Separate Storm Sewer Systems (MS4s) General Permit

Violation	Base Penalty Rate
Failure to renew or transfer coverage under the General Permit	\$1000/month
Failure to apply for coverage under the MS4 General Permit for traditional MS4	\$5,000/event
Failure to apply for coverage under the MS4 General Permit for non-traditional MS4	\$1,000/event
Failure to develop and implement a Storm Water Management Program (SWMP)	\$3000/event
Failure to submit Annual Compliance Status Report and/or Municipal Compliance Certification Form	\$3000/event
Causing or contributing to a Water Quality Standards violation	\$5000/event
Failure to meet major permit milestone	\$250/day
Failure to meet other (non-major) milestone or other non-significant permit violations	\$100/day
Significant unauthorized discharge (refer to draft EPA Wet Weather SNC Policy <i>et seq.</i>)	\$3000/event
Unauthorized discharge	\$1,000/event
Significant permit requirement violations including but not limited to: <ul style="list-style-type: none"> • Lack of or a substantially inadequate SWPPP or SWMP; • Substantial failure to implement or maintain BMPs, or • Substantial failure to perform required monitoring 	\$3,000/event
Failure to submit required report (including failure to respond to an information request)	\$500/month
Failure to retain records as required	\$500/event
Failure to allow inspection/sampling by the Department	\$5,000/event
Falsifying information on DEC submittal ⁴⁰	\$10,000/report
Failure to comply with other (not specifically noted in this Appendix) applicable requirements set forth in 6 NYCRR Part 750-2, "Operating in Accordance with a SPDES Permit"	\$100/day
ECL Article 17 violations not related to permit	\$250/day

FINES!

⁴⁰ The penalty calculated based on this Base Penalty Rate and the maximum adjustment factors may exceed the statutory limitation (currently \$37,500 per day per violation.) A separate calculation for this violation using the case specific adjustment factors should be performed first. If the assessed penalty exceeds the statutory limitation, the penalty assessed for this violation must be changed to the statutory maximum.

Civil Enforcement Case Report

Civil Enforcement Case

Basic Information

Case Number: 02-2016-3309
Case Name: Town of Rotterdam
Case Category: Administrative - Formal
Case Status (as of 06/28/2017): Closed
Case Lead: EPA
Court Docket Number: CWA-02-2016-3309
DOJ Docket Number: --

Relief Sought: --

Enforcement Outcome: Final Order With Penalty
Headquarters Division: --
Branch: --
Result of Voluntary Disclosure? No
Multi-media Case? --
Enforcement Type: CWA 309G2A AO For Class I Penalties
Violations: Violation Of A Permit Requirement

Penalties – Case Level

Total Federal Penalty Assessed or Agreed To: \$15,000
Total State/Local Penalty Assessed: \$0
Total SEP Cost: \$187,233
Total Compliance Action Cost: \$0
Total Cost Recovery: \$0

Case Summary

The Town is a permitted Phase II MS4 in New York. EPA conducted an MS4 Audit on April 2-4, 2013. EPA identified that the Town failed to comply with the conditions of the NYSDEC SPDES General Permit for Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4s) including failure to conduct outfall reconnaissance inventory, failure to map all outfalls, failure to conduct self-assessments at municipal facilities, failure to develop a SWMP Plan and failure to submit Annual Reports on time. EPA issued an Administrative Order on August 9, 2013 which included a schedule to come into compliance with the MS4 General Permit. Based on subsequent submissions, the Town has addressed the noncompliance issues in compliance with the Order. Respondent will pay a \$15,000 cash penalty and perform a rain garden, porous pavement, Next Gen, educational SEP at a cost of \$187,233.

Laws and Sections

Law	Section	Program
CWA	301A02	NPDES Permit Violations

Citations

Date	Pen	Section
No data records returned		

EPA MS4 Permit Enforcement

Town of Rotterdam, NY April, 2013 Audit

1. Do the work to get into compliance
2. Agreed to Fine: \$15,000
3. Supplemental Environmental Project: \$187,233
(rain garden, porous pavement, Next Gen project)

EPA MS4 Permit Enforcement

Town of Glenville, NY
June, 2019 Audit

1. Do the work to get into compliance
2. Compliance Action Cost: \$38,497



Civil Enforcement Case Report Civil Enforcement Case

Basic Information

Case Number: 02-2019-3037
Case Name: Town of Glenville - MS4
Case Category: Administrative - Formal
Case Status (as of 08/02/2019): Final Order Issued
Case Lead: EPA
Court Docket Number: CWA-02-2019-3037
DOJ Docket Number: --

Relief Sought: --

Enforcement Outcome: Unilateral Administrative Order Without Adjudication

Headquarters Division: --

Branch: --

Result of Voluntary Disclosure? No

Multi-media Case? --

Enforcement Type: CWA 309A AO For Compliance

Violations: --

Penalties – Case Level

Total Federal Penalty Assessed or Agreed To: \$0
Total State/Local Penalty Assessed: \$0
Total SEP Cost: \$0
Total Compliance Action Cost: \$38,497
Total Cost Recovery: \$0

Case Summary

This information request and administrative compliance order is being issued to address violations of the NYSDEC SPDES MS4 General Permit identified during a June 6 - 7, 2019 audit of the Town's MS4. The Order requires the facility to comply with the terms and conditions of the MS4 General Permit.

Laws and Sections

Law	Section	Program
CWA	303, 304, 305	NYSDEC Discharge without a Permit, NYSDEC Permit Violation

Citations

Title	Page	Section
No data records returned		

Construction Activity General Permit

G. Construction Stormwater General Permit

Violation	Base Penalty Rate
Failure to obtain coverage under General Permit and is employing appropriate erosion & sediment control practices	<p>< 5 acres (or 5,000 sq ft - 1 acre for east of Hudson in the New York City Watershed (NYCW)) \$1,000/day</p> <p>≥5 acres (or >1 acre for east of Hudson in the NYCW) \$1,500/day</p>
Failure to obtain coverage under General Permit and is employing minimal or no erosion & sediment control practices	<p>< 5 acres (or 5,000 sq ft - 1 acre for east of Hudson in the NYCW) \$1,500/day</p> <p>≥5 acres (or >1 acre for east of Hudson in the NYCW) \$3,000/day</p>
Failure to develop and implement a SWPPP	\$3000/event
Has coverage under General Permit, and has significant permit violations including but not limited to: <ul style="list-style-type: none"> Substantial failure to implement or maintain BMPs 	<p>< 5 acres (or 5,000 sq ft - 1 acre for east of Hudson in the NYCW) \$1,000/day</p> <p>≥5 acres (or >1 acre for east of Hudson in the NYCW) \$2,500/day</p>

FINES!

Has coverage under General Permit, and has non-significant permit violations	<p>< 5 acres (or 5,000 sq ft - 1 acre for east of Hudson in the NYCW) \$500/day</p> <p>≥ 5 acres (or >1 acre for east of Hudson in the NYCW) \$1,000/day</p>
Significant unauthorized discharge (refer to draft EPA Wet Weather SNC Policy <i>et seq.</i>)	\$3,000/event
Unauthorized discharge	\$1,000/event
Causing or contributing to a Water Quality Standards violation	\$5,000/event
Failure to meet major milestones required in a permit or administrative or judicial order	\$250/day
Failure to meet other (non-major) milestone or other non-significant permit violations	\$100/day
Failure to submit required report (including failure to respond to an information request)	\$500/month
Failure to retain records as required	\$500/event
Failure to allow inspection/sampling by the Department	\$5,000/event
Falsifying information on DEC submittal ⁴¹	\$10,000/report
Failure to comply with other (not specifically noted in this Appendix) applicable requirements set forth in 6 NYCRR Part 750-2, "Operating in Accordance with a SPDES Permit"	\$100/day
ECL Article 17 violations not related to permit	\$250/day

⁴¹ The penalty calculated based on this Base Penalty Rate and the maximum adjustment factors may exceed the statutory limitation (currently \$37,500 per day per violation.) A separate calculation for this violation using the case specific adjustment factors should be performed first. If the assessed penalty exceeds the statutory limitation, the penalty assessed for this violation must be changed to the statutory maximum.

Multi-Sector General Permit

“Industrial
Permit”

“MSGP”

H. Multi-Sector General Permit (MSGP)

Violation	Base Penalty Rate
Failure to renew or transfer coverage under General Permit	\$1,000/month
Failure to apply for coverage under the General Permit	\$3,000/event
Failure to submit DMR or Annual Certification Report	\$1000/event
Failure to develop and implement a SWPPP or SWMP	\$3000/event
Causing or contributing to a Water Quality Standards violation	\$5000/event
Significant unauthorized discharge (refer to draft EPA Wet Weather SNC Policy <i>et seq.</i>)	\$3,000/event
Unauthorized discharge	\$1,000/event
Failure to meet significant permit requirements including but not limited to: <ul style="list-style-type: none"> Substantially inadequate SWPPPs; Substantial failure to develop or implement the SWPPP; Substantial failure to implement or maintain BMPs; Substantial failure to implement MSGP requirements. 	\$3,000/event
Exceeding interim or final effluent limits for non-toxic parameter under SPDES permit: <ul style="list-style-type: none"> Daily max/min discharge (each day = 1 violation = 1 event) Daily Average (7 day average = 7 violations⁴² = 1 event) Daily Average (30 day average = 30 violations⁴³ = 1 event) or Monthly Average 	\$1,000/event \$1,500/event \$2,000/event
Exceeding interim or final limits for toxic parameter under SPDES permit: <ul style="list-style-type: none"> Daily max/min discharge (each day = 1 violation = 1 event) Daily Average (7 day average = 7 violations⁴² = 1 event) Daily Average (30 day average = 30 violations⁴³ = 1 event) or Monthly Average 	\$2,000/event \$3,000/event \$4,000/event
Failure to meet major milestones required in a permit or administrative order or judicial decree	\$250/day
Failure to meet other (non-major) milestone or other non-significant permit violations	\$100/day

⁴²Exceedence of the 7-day average constitutes seven violations. 7-day average, as defined in 40CFR133.101(a), is “the arithmetic mean of pollutant parameter values of samples collected in a period of 7 consecutive days.”

⁴³Exceedence of the 30-day average constitutes one violation. Legal precedence for this has been established by federal court rulings. The 30-day average, as defined in 40CFR133.101(b), is “the arithmetic mean of pollutant parameter values of samples collected in a period of 30 consecutive days.”

FINES!

Failure to submit required report (including failure to respond to an information request)	\$500/month
Failure to retain records as required	\$500/event
Failure to allow inspection/sampling by the Department	\$5,000/event
Falsifying information on DEC submittal ⁴²	\$10,000/report
Failure to comply with other (not specifically noted in this Appendix) applicable requirements set forth in 6 NYCRR Part 750-2, "Operating in Accordance with a SPDES Permit"	\$100/day
ECL Article 17 violations not related to permit	\$250/day

⁴²The penalty calculated based on this Base Penalty Rate and the maximum adjustment factors may exceed the statutory limitation (currently \$37,500 per day per violation.) A separate calculation for this violation using the case specific adjustment factors should be performed first. If the assessed penalty exceeds the statutory limitation, the penalty assessed for this violation must be changed to the statutory maximum.

***Is your MS4 municipality in compliance?
(EPA and DEC auditors read the permits)***

EPA Audits

Local MS4 Permit Compliance

(Coalition members)

Town of Colonie: Sept 3-5, 2013 (3 days)

City of Albany: June 3-5, 2014 (3 days)

University at Albany-SUNY Uptown: March 19, 2015 (1 day)

Town of Bethlehem: Sept 11-12, 2019 (2 days)

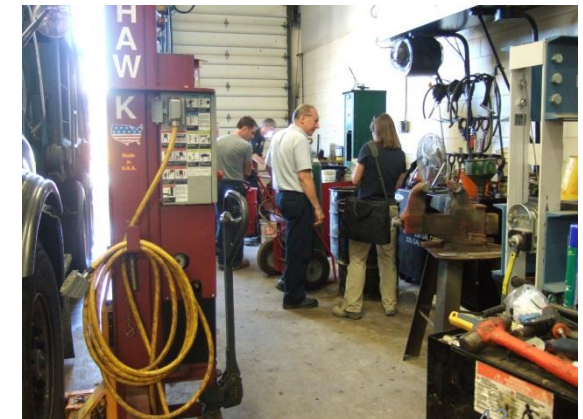
Recent NYSDEC Audits (1 day)

V/Menands (12/6/2012); T/New Scotland (2/11/2014);

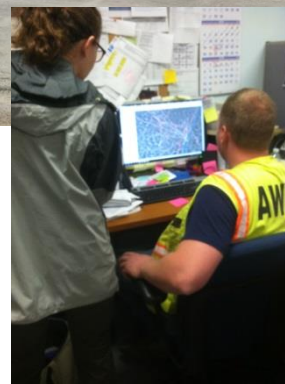
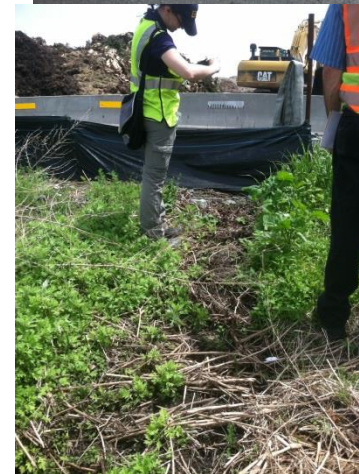
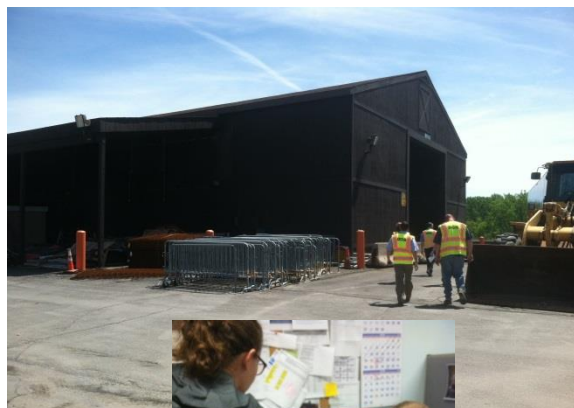
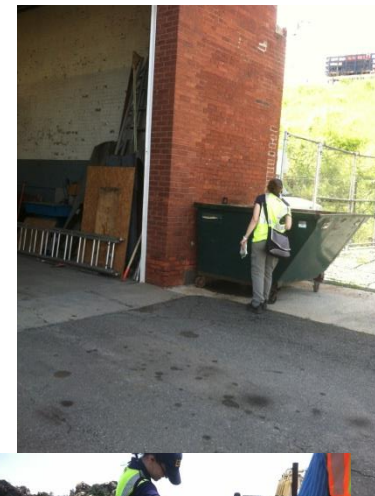
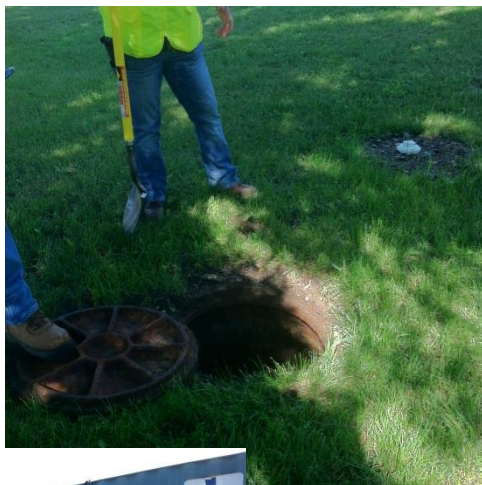
C/Cohoes (7/16/2014); V/Colonie (1/21/2015);

T/Guilderland (2/17/2016); C/Watervliet (5/11/2016); Albany County
(2/2/2017); V/Menands (6/26/2019)

Town of Colonie 2013 (EPA)



City of Albany 2014 (EPA)



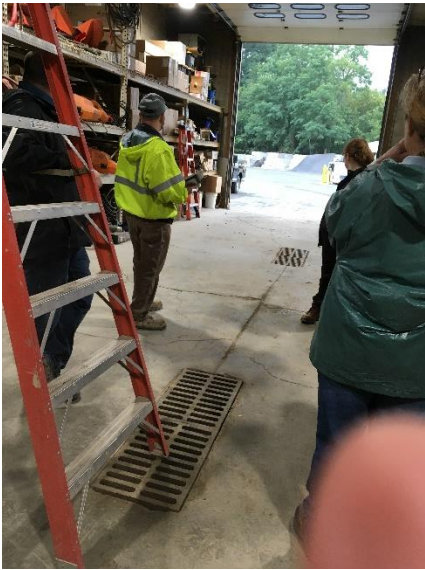
University at Albany-Uptown 2015 (EPA)



Town of Bethlehem 2019 (EPA)







Who is doing the MS4 Permit work in, with, or for your MS4/municipality? What is your role? The auditor check list...

- Public education (website, brochures, CB stenciling, newsletters)
- Public participation events (stream monitoring, plantings, clean ups)
- Mapping storm system network (catch basins, manholes, pipes)
- Mapping outfalls
- Mapping municipal facilities and stormwater management practices (ponds, swales, basins, bioretention, green roofs, etc.)
- Inspecting outfalls for pollution; eliminating cross connections (sanitary into storm); track down diagnostics
- Reviewing SWPPPs, signing MS4 SWPPP Acceptance Form
- Developing/writing/explaining Construction Permit SWPPP review procedures
- Inspecting active Construction Permit sites; record keeping
- Inspecting permanent stormwater practices, follow up with owner

- Enforcing local laws (failed construction sites; illegal discharges)
- Inspecting municipal property/buildings
- Implementing pollution prevention practices at facilities, budgeting for, purchasing equipment
- Assessing municipal field operations, implementing pollution prevention practices, writing standard operation procedures
- Posting Annual Report on website for comment; filing Annual Report by June 1
- Amending local stormwater laws
- Inspecting/cleaning catch basins
- Sweeping streets and parking lots
- Tracking pesticide, herbicide, and fertilizer use
- Organizing Household Hazardous Waste Collection Days
- Tracking changes to MS4/Construction/Multi-Sector Permits
- Annual program evaluation and updated measurable goals
- Staff training –developing content, tuition, tracking attendance

- Coordinating inter-departmental stormwater tasks
- Supporting inter-MS4 stormwater tasks
- Writing/managing stormwater grants
- Budgeting, contracts for stormwater program services

Implementing the MS4 Permit is a team effort!

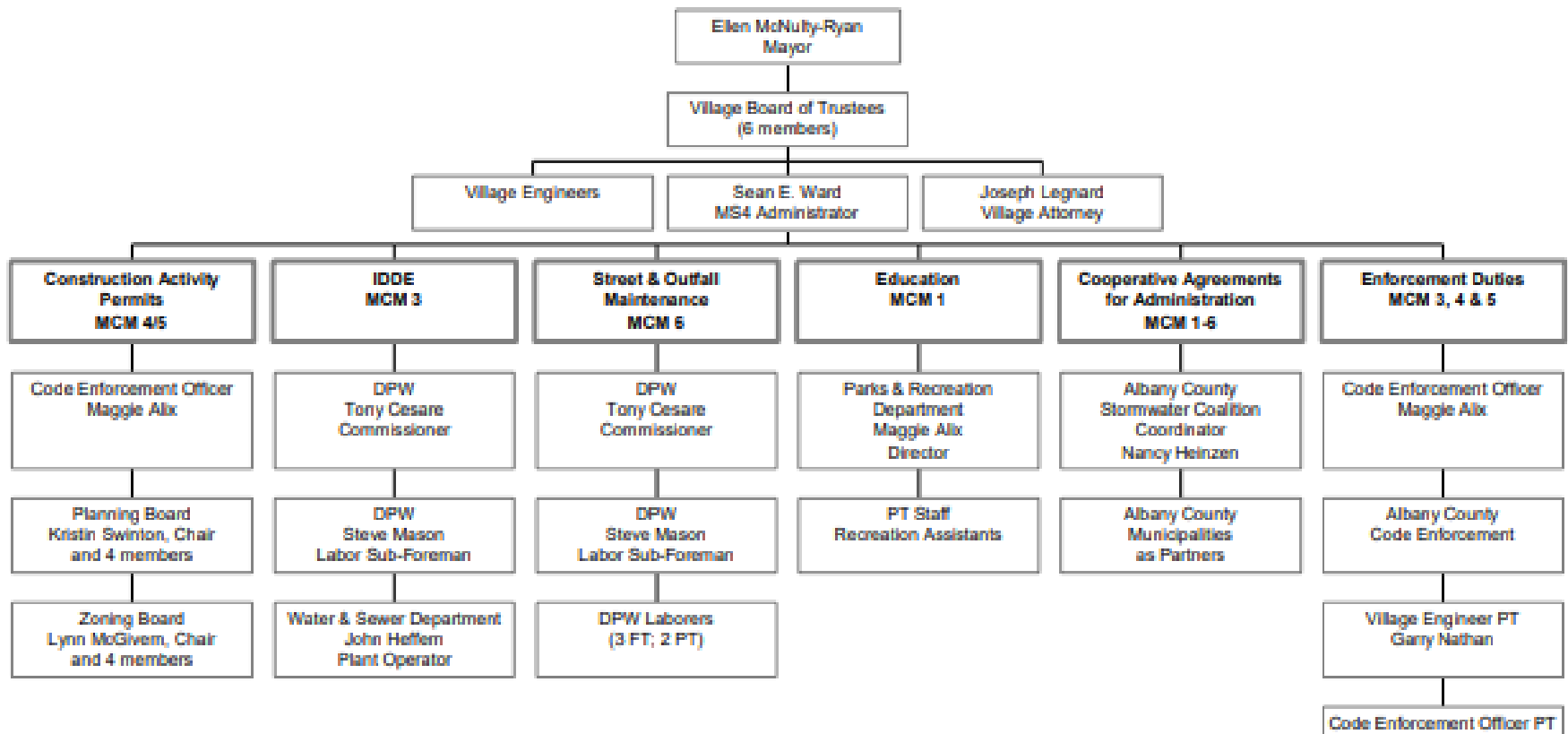
Multiple skills and a deep knowledge of all municipal operations is critical.

Inter-departmental communication is key.

Who is doing what where in your MS4? Where do you fit in?

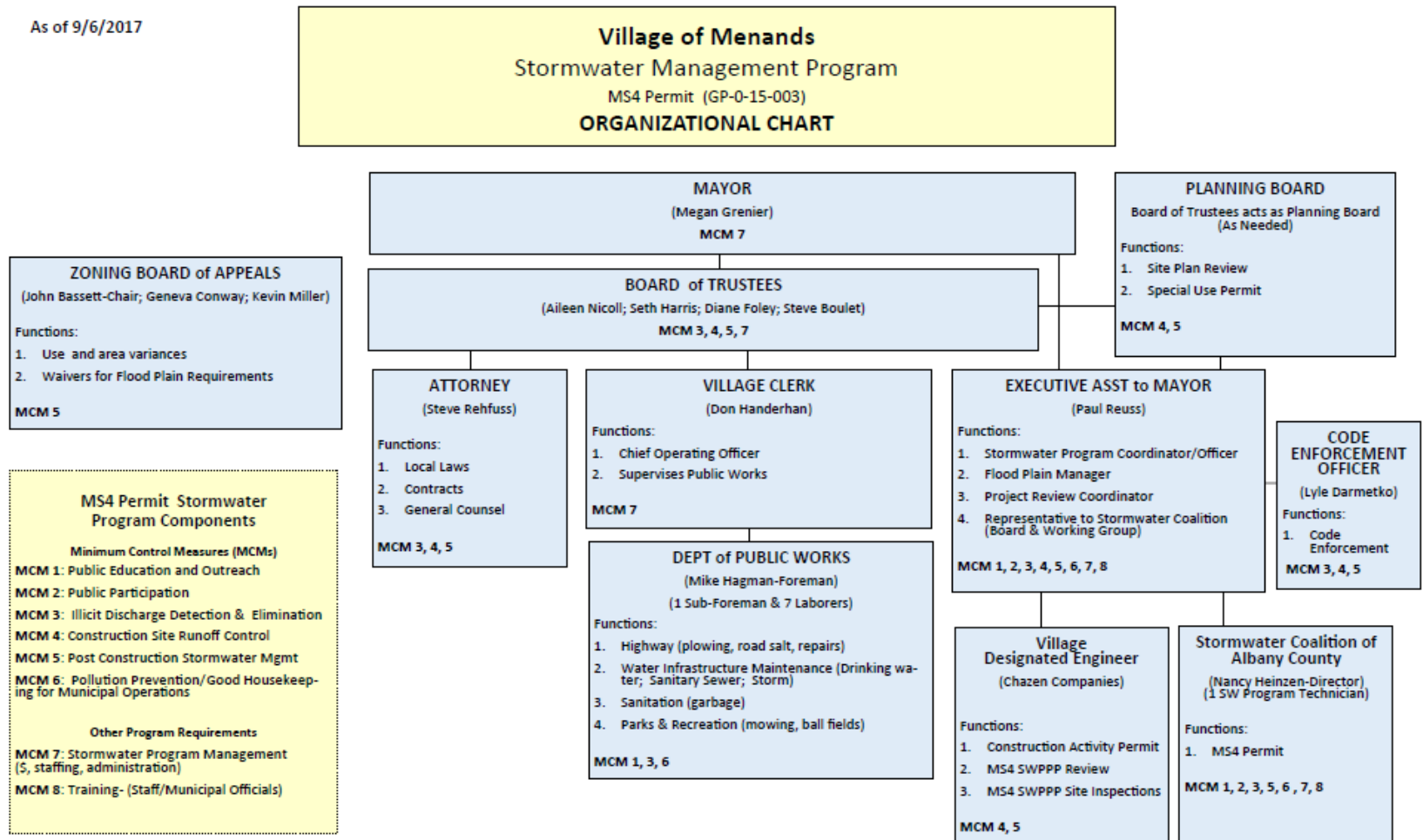
Stormwater Program Organizational Charts

Village of Green Island (population ~2620)



Village of Menands (population 2,613)

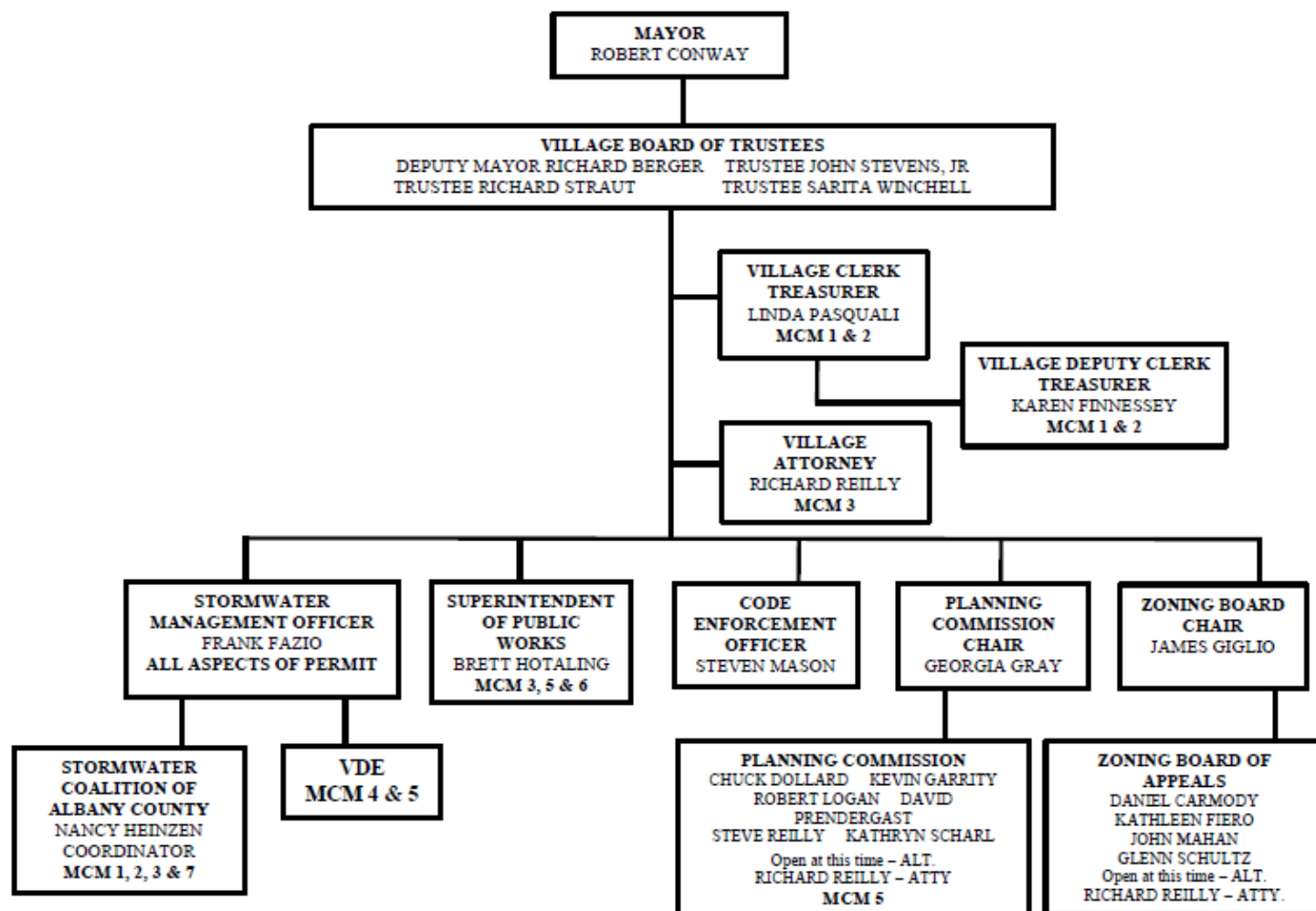
As of 9/6/2017



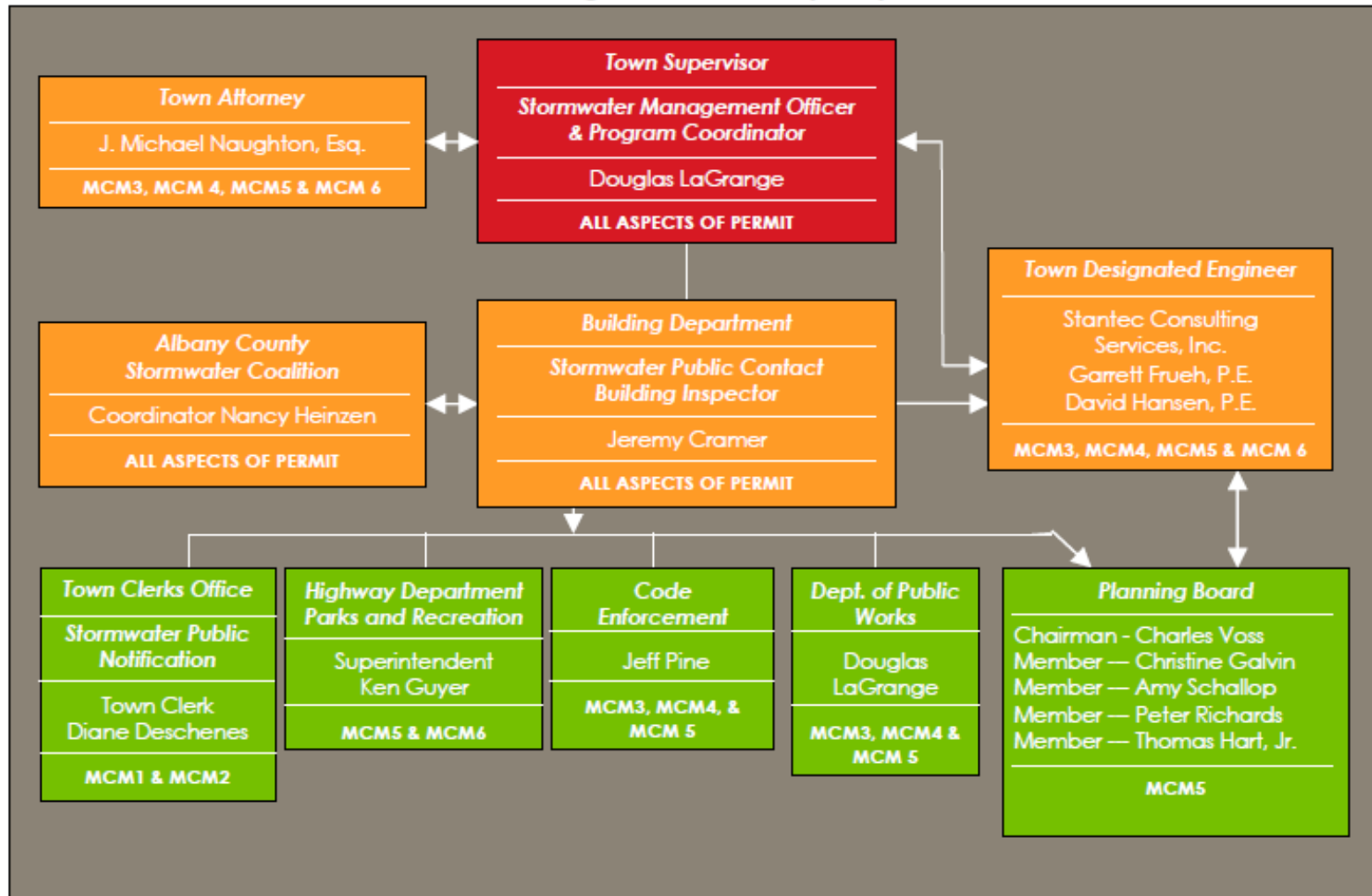
File name: 2017_5-4_VMenands_OrgChart_FINAL_8.3x14Format.pub

Village of Voorheesville (population ~2,775)

VILLAGE OF VOORHEESVILLE STORMWATER MANAGEMENT ORGANIZATIONAL CHART



Town of New Scotland MS4 Organization Chart (2020)

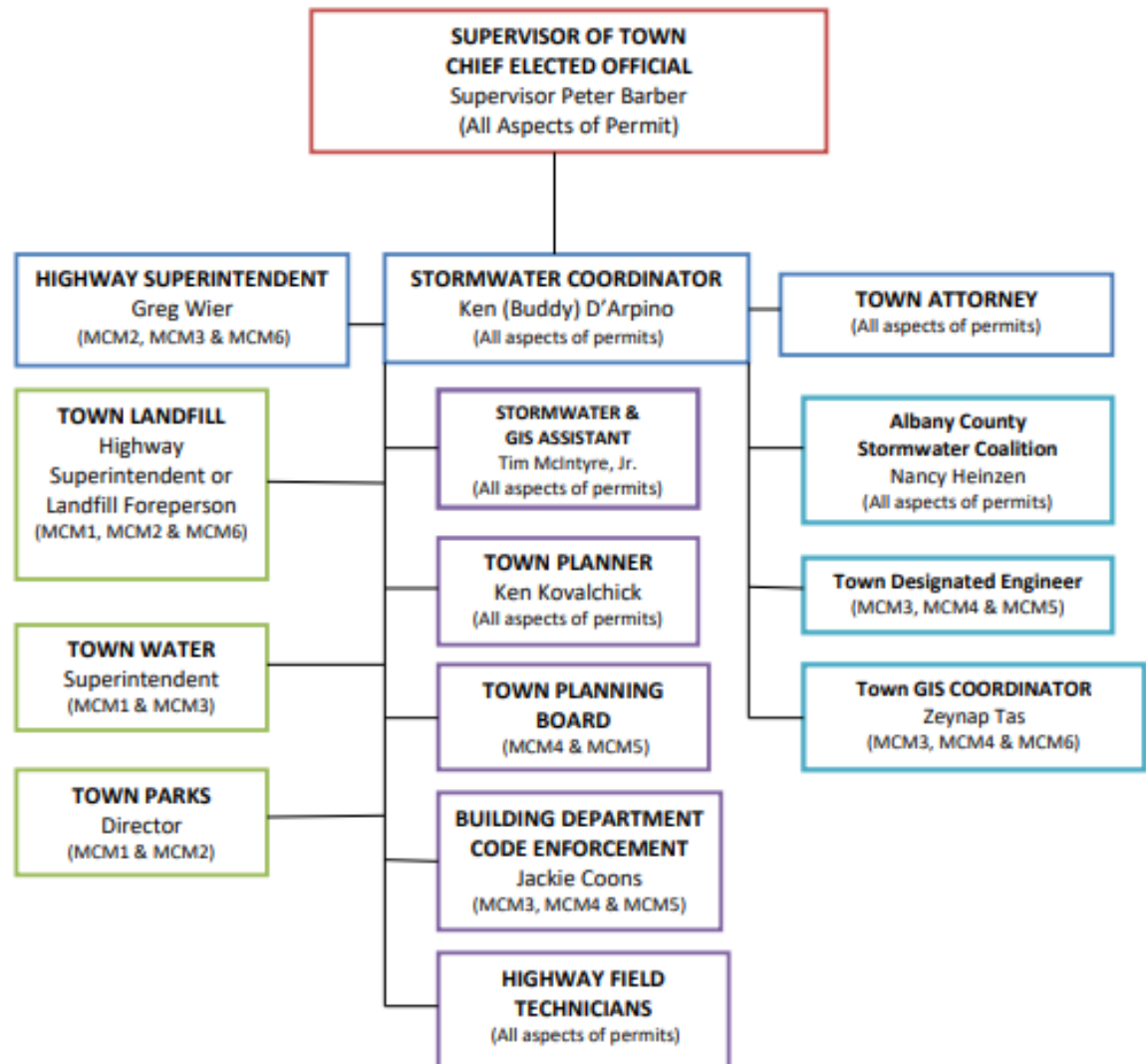


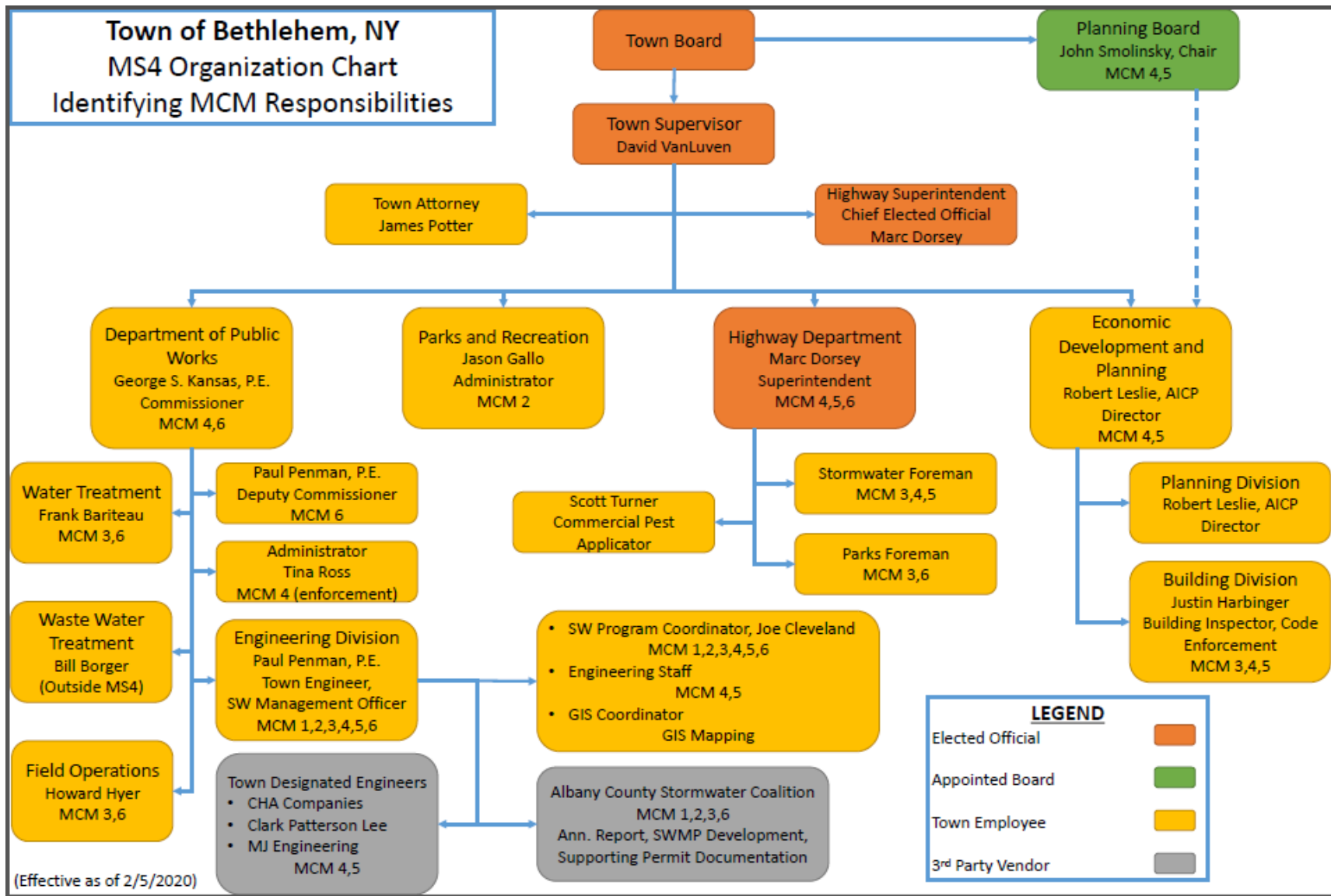
Town of New Scotland
(population ~5,859)



Town of Guilderland
(population ~35,745)

TOWN OF GUILDERLAND MS4 ORGANIZATIONAL CHART

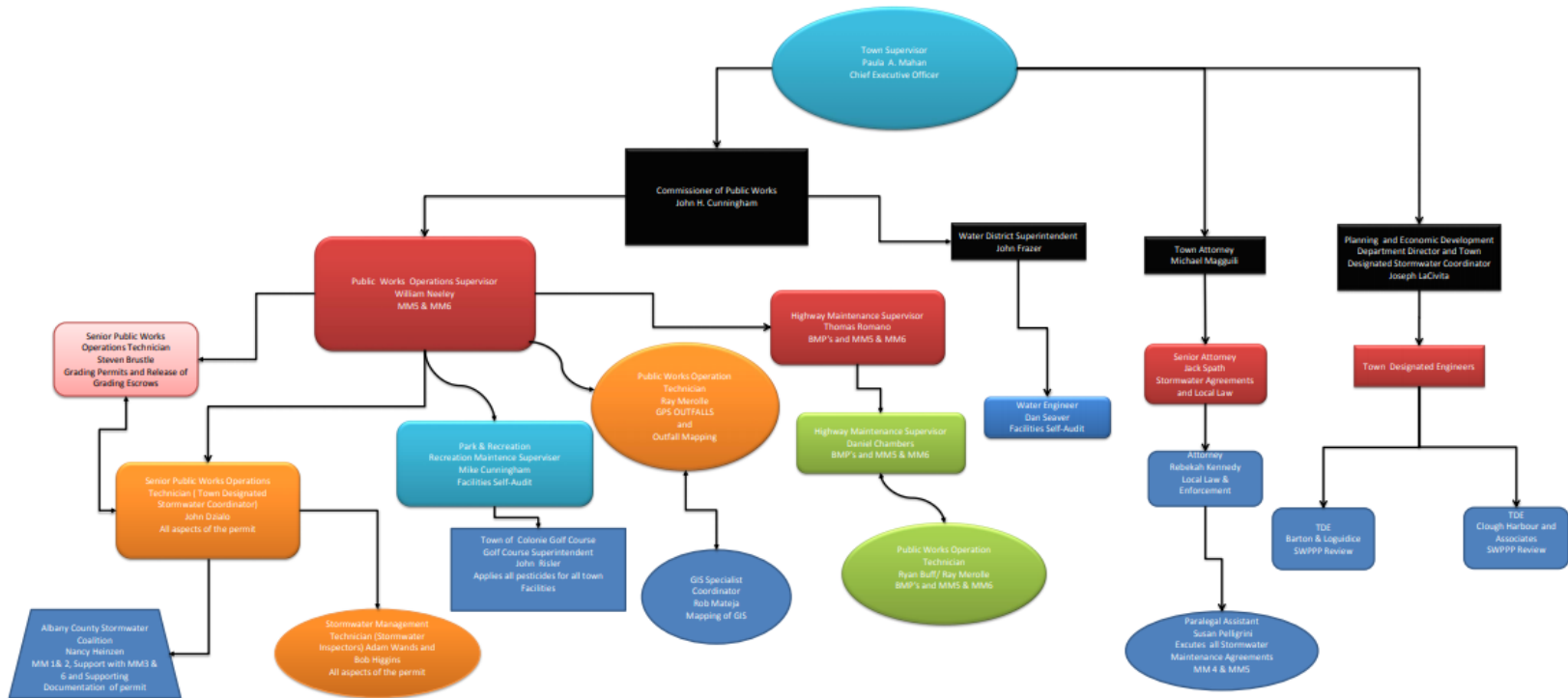




**Town of Bethlehem
(population ~35,444)**

Town of Colonie (population ~69,808)

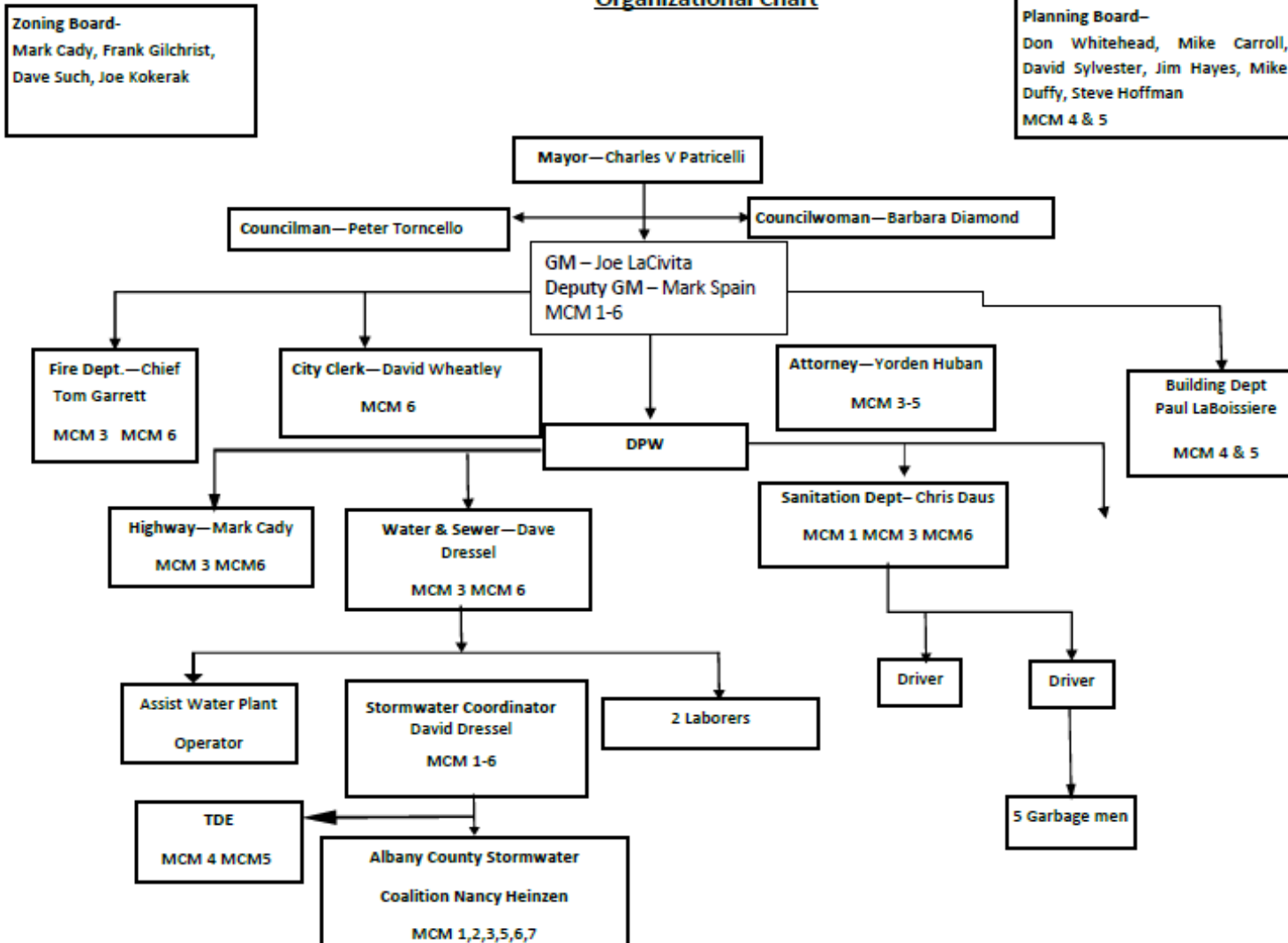
A flow Diagram of what responsibilities each of these organizational units is assigned for the six minimum control measures identified in the permit.



City of Watervliet (population ~10,207)

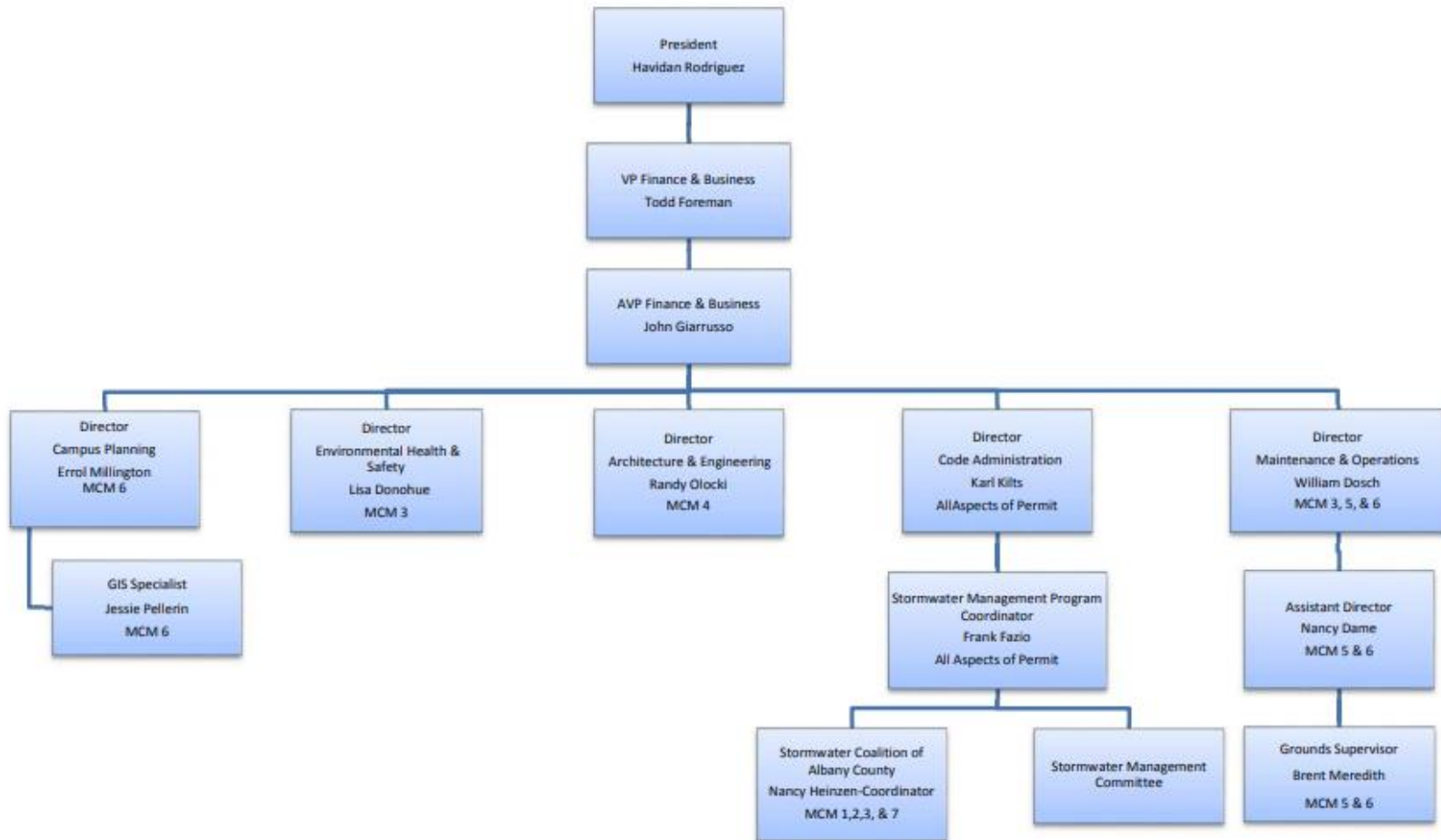
1/23/20

City of Watervliet Stormwater Management/MS4 Permit Organizational Chart



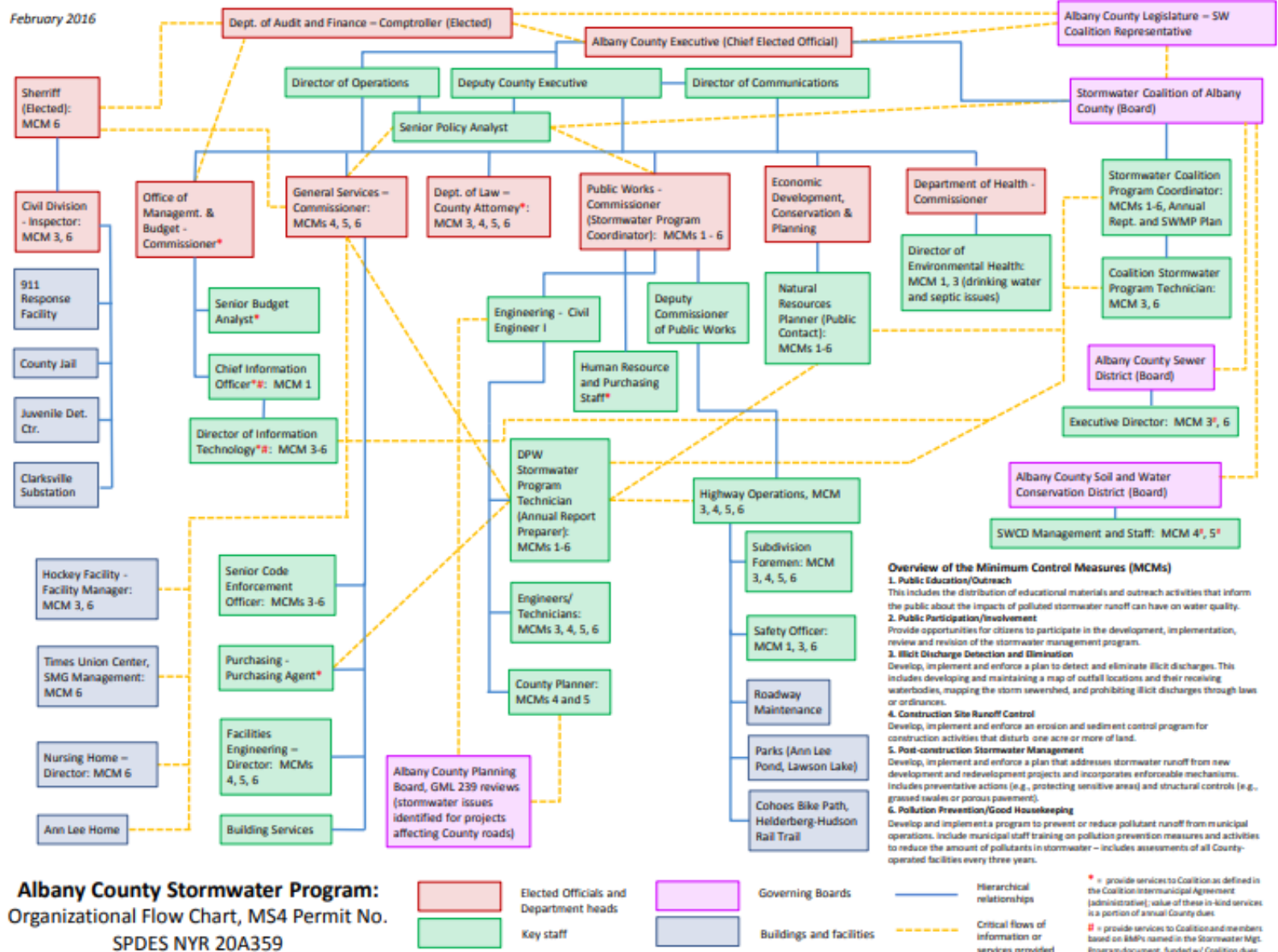
University at Albany – Uptown (Enrollment 17,280)

UNIVERSITY AT ALBANY Stormwater Management Organization Chart



Albany County (population ~304,204)

February 2016



The Future MS4 Permit

Best Guess: 2016/2019 DRAFT MS4 Permit

See EXCERPTS of DRAFT MS4 Permit text...

Part IV. Stormwater Management Program Requirements

Map of the MS4 Conveyance System

Much more...

Appendix A: SWMP Recording Requirements – Required Record

Appendix C: Compliance Schedule

Proudest Accomplishments

From your stormwater program coordinator....

MS4 Permit Audit Results

*"I am most proud of the fact that Menands had a **successful DEC audit ...**"*

Village of Menands

*"I am proud of the **interdepartmental cooperation** within our Town regarding our MS4 program. Without that cooperation it would be impossible to sufficiently implement our MS4 program. It's not always easy to rally **multiple departments** to achieve a **common goal**. As proof, we recently **"passed" our MS4 Program EPA audit with flying colors.**"*

Town of Bethlehem

Stormwater Awareness

*“The most **positive happenings** from my end... **Stormwater** is **recognized around the Town**. What I mean by this is that I receive phone calls because **people know who the stormwater person is and what they do**. When I first started nobody knew anything about stormwater. Today, I receive **phone calls** about **private property issues, new construction ideas**, stormwater **policies**, attend construction **concept meetings**, get involved in drainage issues, and many other related issues. The difference today is they know what I do and know what help I can bring to them. Before I did this nobody knew anything about stormwater.”*

Town of Guilderland

*“**Meeting with developers** who have had no exposure and knowledge about stormwater regulations can be **daunting**. I am **proud** to say **Albany County DPW** has **actively educated many general contractors to follow DEC mandated regulations for stormwater compliance**.”*

Albany County DPW

Water Quality Laws

“I think our biggest accomplishments were:

- 1. **Updating** our **zoning** to include **protections for Vly Creek**, and*
- 2. **Bringing on a skilled Stormwater Manager.**”*

Village of Voorheesville

*“Albany County has also led the way and **enacted legislation** over the last few years which greatly restricts or **eliminates** the **use of Styrofoam, plastic cutlery, plastic straws, plastic bags, microbeads** and other one-time use items that take up valuable space in our landfills and **end up in our storm systems and waterways.***

*The County **Integrated Pest Management bill** that passed the Legislature many years ago was **way ahead of its time** and has greatly **reduced** the **infiltration** of unwanted and **dangerous chemicals in our streams, lakes and rivers.** “*

Albany County

Green and Grey Infrastructure

“The Village has implemented many structural changes to their infrastructure. Here the list....

- Installed three **(3) green infrastructure Filterra systems on Albany Avenue.** The structures filter out pollutants before they reach the storm pipe.*
- Installed a **Vortex separator in the same area.** Two other Vortex systems are located in the **north end** of the community. The units **remove floatables and litter** from the stormwater runoff. The infrastructure is maintained by our Department of Public Works staff at least twice annually.*
- Over the last 10 years **Albany Avenue, Saratoga Avenue and Lower Hudson Avenue** in the south end as well as **Riverview Drive, Center Island Circle and Starbuck Drive on Starbuck/Center Island** were separated from the combined sanitary/storm system.*
- **Hudson Avenue was separated** as an offset of the Starbuck Island development project.*
- Today, we were **awarded \$30,000** to study the **separation of George Street**, our main street in the Village.”*

Village of Green Island

Green and Grey Infrastructure

*“The **City and its private developers** have used **Green Infrastructure** for many of its projects. For example:*

- ***Canal Square Park** uses **bio-retention, permeable pavers, rain water harvesting** as G.I. practices,*
- ***Mosaic Village** apartment development is using **porous pavement** for the west and south parking areas,*
- ***Middle Vliet Street Sewer Separation Project** used infiltration practices that were incorporated into the storm sewer design to recharge the ground water,*
- ***Columbia Street Phase 2 Sewer Separation** is just beginning design has Green Infiltration Terrace (**10 bio-retention units**). Expansion of the Rain Garden at the park on James and Columbia and a **large Bio-retention at Trull and Columbia Street**. This could result in from **70,000 gallons to 560,000 gallon reduction of flows during a 25 year storm event.**”*

City of Cohoes

Green and Grey Infrastructure

*“At the **University at Albany**, we have implemented **green infrastructure** practices that **go beyond the state requirements**. We have the capability to **host tours of green roofs, rain gardens, porous pavement** and concrete at one location. This has enabled us to **educate the public** from school students to municipal officials. We are also in the process of constructing a **research and teaching green roof** at our **ETEC Building**.”*

University at Albany

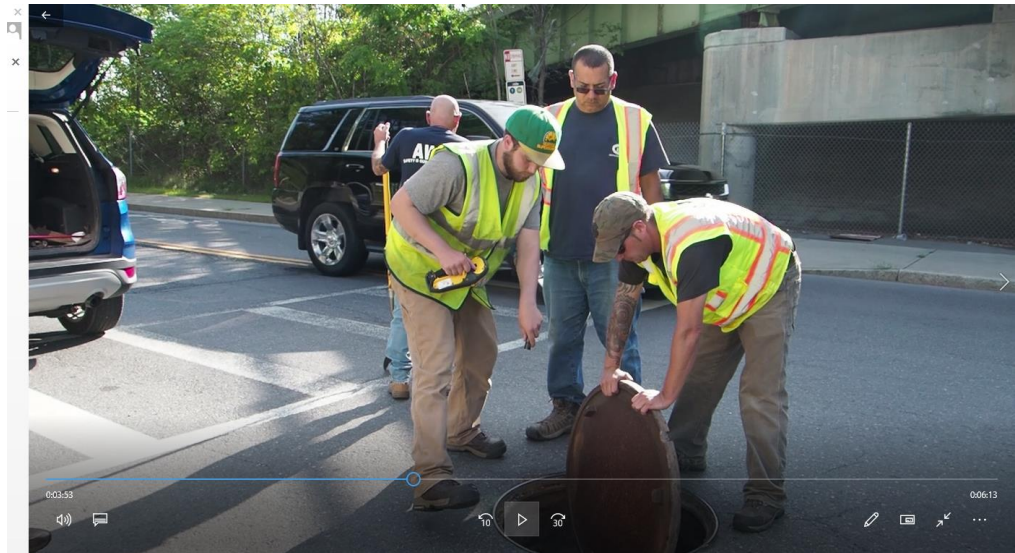
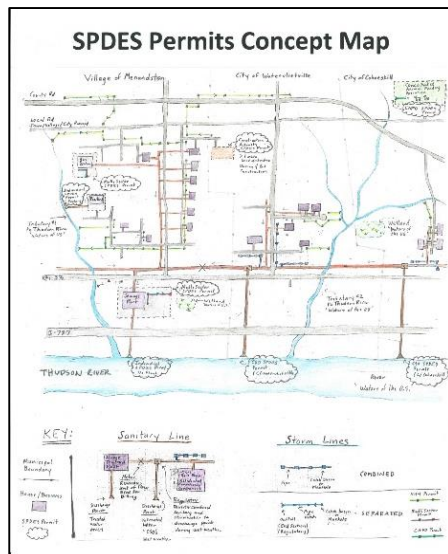
Mapping

*"I'm proud of the **storm system mapping** completed by **Coalition staff** with and for **members** staff from 2016 to 2019. We now have an **inter-municipal understanding of storm system infrastructure** and **members** are **well prepared to implement MS4 Permit changes**. This **grant funded project** was **hard work** for many and **all of the municipalities stepped up** to do their part."*

Stormwater Coalition staff

Why map?

**Know your MS4 system.
Manage your permit.**



Mapping a storm system...in the City of Albany
(video, time permitting) or demo SwIM data

For more information about the Coalition and members,
go to the Stormwater Coalition website:
www.stormwateralbanycounty.org

The screenshot shows the homepage of the Stormwater Coalition of Albany County. The header features a banner with an excavator on the left, the coalition's name in the center, and a logo on the right. Below the banner is a navigation menu with links: Home, Stormwater Regulations, Stormwater Coalition, Pollutants of Concern, What You Can Do, Construction Activity Permit, Green Infrastructure, Watershed Maps Other Maps, Plan & Program, and Financing. The main content area has a headline "Shared effort returns big rewards for you & the environment" with a sub-headline "Shared effort returns big rewards for you & the environment". Below this is a paragraph about the coalition's mission and a call to action. To the right of the paragraph is a photo of a person planting a tree. Below the main content is a "Member List" section and a "News Archive" section. The "Featured: News Topics" section highlights a training event on November 18, 2019.

STORMWATER COALITION OF ALBANY COUNTY

EDUCATION PARTICIPATION COMPLIANCE

Home Stormwater Regulations Stormwater Coalition Pollutants of Concern What You Can Do Construction Activity Permit Green Infrastructure Watershed Maps Other Maps Plan & Program Financing

► **Shared effort returns big rewards for you & the environment**

Throughout our communities there are small streams, which eventually flow to the Hudson River, then onto the Atlantic Ocean. We have been tasked by the Federal Clean Water Act to become stewards of these small creeks, watchful of how much rainwater flows into these streams and watchful of the pollutants carried along the way. In an era of shrinking government and scarce public dollars, we are charged with a challenging task. We know, however that clean water is an investment in the future of our communities and more broadly an investment in the future of our Earth. We urge every citizen to get involved and join us in taking action to protect our local streams, ponds, reservoirs, and wetlands. We need your help. Thank you!

► **Member List:** City of Albany, Town of Bethlehem, City of Cohoes, Town of Colonie, Village of Green Island, Town of Guilderland, Village of Menands, Town of New Scotland, City of Watervliet, Albany County, University at Albany – SUNY Uptown Campus

News Archive

- October 2019
- September 2019
- August 2019
- June 2019
- May 2019
- March 2019
- January 2019
- October 2018
- September 2018
- July 2018

FEATURED: NEWS TOPICS

► **November 18, 2019 4 Hr Erosion and Sediment Control Training – 24 Martin Road, Voorheesville, NY**

October 2, 2019

A NYSDEC 4 Hour Erosion and Sediment Control Construction Activity

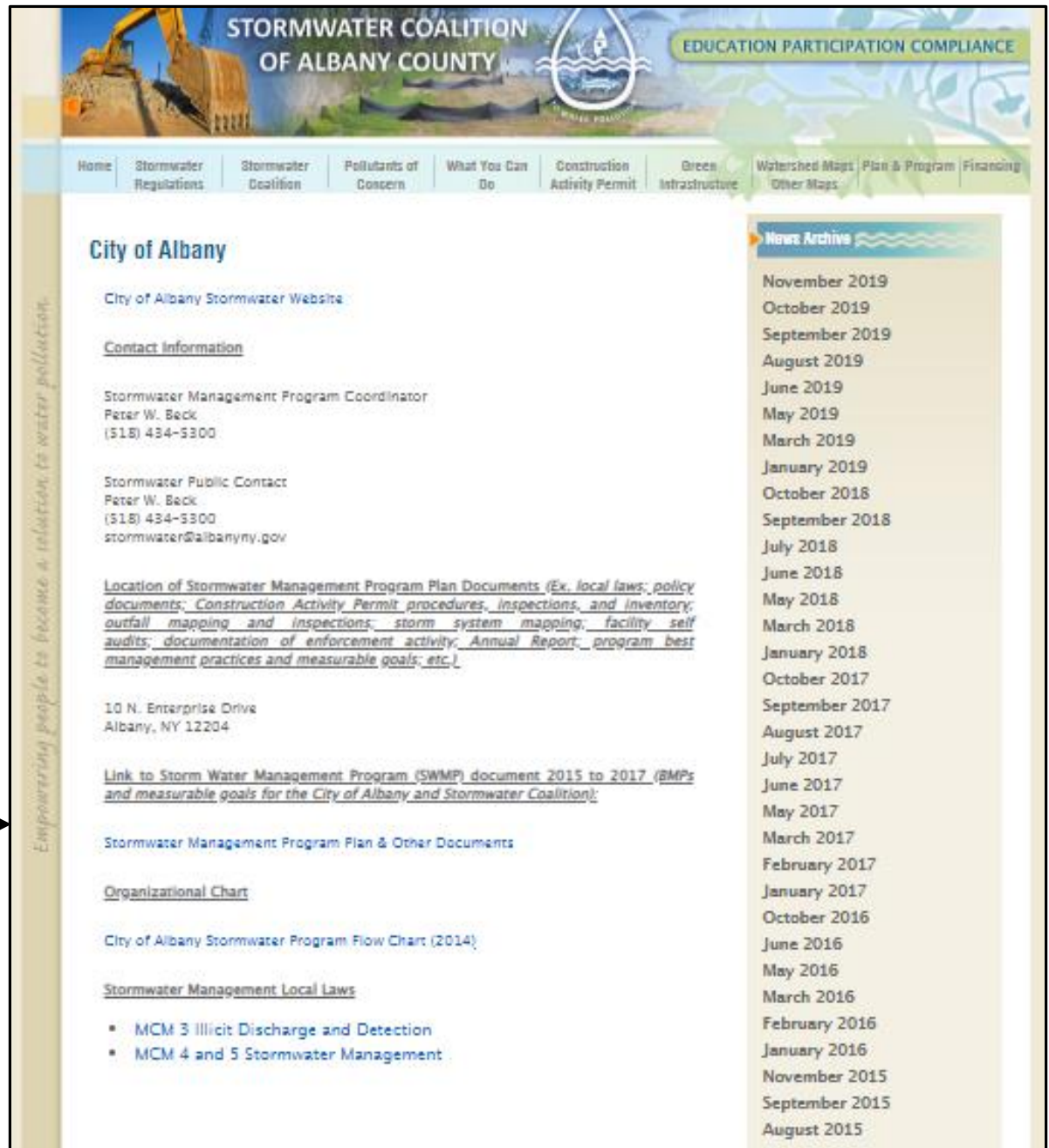
Home page

From Coalition website,
links to Member
pages...



Member page content

MUCH MORE, check it out!



Questions?

Thank you!

Training Documentation (Signed In?)