DRAFT MS4 PERMIT GP-0-22-002

OVERVIEW OF THE MS4 PERMIT AND JEFFERSON COUNTY STORMWATER COALITION

WHAT IS AN MS4?

- MS4 – MUNICIPAL SEPARATE STORM SEWER SYSTEM
- AUTOMATICALLY DESIGNATED URBANIZED AREAS CHOSEN PRIMARILY BASED ON POPULATION DENSITY
- CURRENTLY ABOUT 544 REGULATED ENTITIES
- THESE INCLUDE TOWNS, CITIES, VILLAGES, COUNTIES, STATE-WIDE AGENCIES, ETC.

WHAT IS AN MS4 PERMIT?

- AN MS4 PERMIT AUTHORIZES THE DISCHARGE OF STORMWATER FROM THE DESIGNATED MS4'S TO THE SURFACE WATERS OF THE STATE THROUGH THE IMPLEMENTATION OF 6 MINIMUM CONTROL MEASURES (MCM'S)

- PERMIT TERM OF 5 YEARS FROM THE EFFECTIVE DATE OF THE PERMIT

TEAMWORK

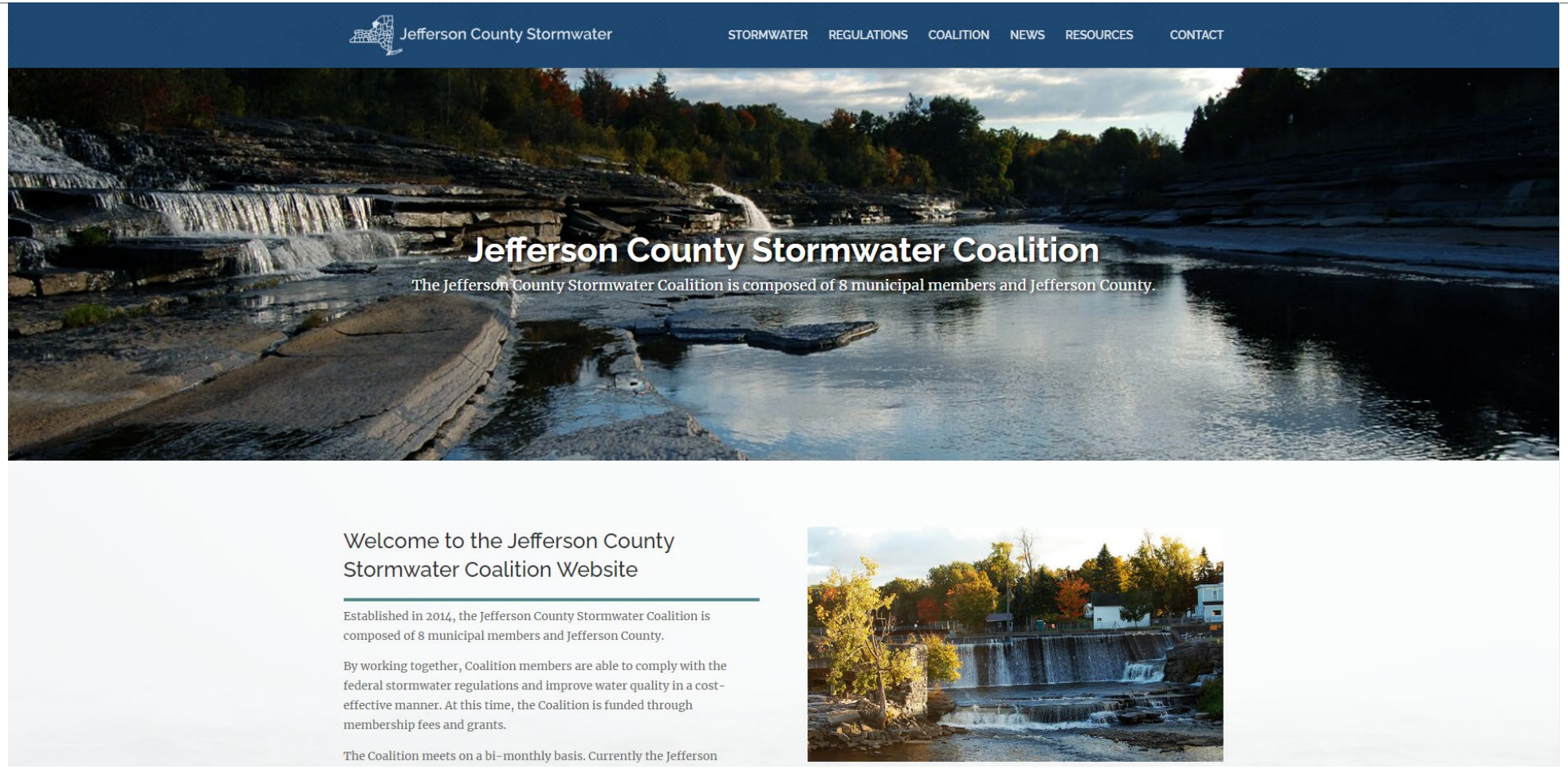
- THE MS4 PERMIT CAN BE TACKLED BY INDIVIDUAL MUNICIPALITIES, WHICH CAN BE A BURDEN FINANCIALLY, ADMINISTRATIVELY, ETC.
- SECOND OPTION IS TO FORM A COALITION TO MEET THE NEEDS AND STANDARDS OF THE PERMIT
- THIS IS WHAT A GROUP OF MUNICIPALITIES DID IN JEFFERSON COUNTY

JEFFERSON COUNTY STORMWATER COALITION

- 9 MS4 MUNICIPALITIES IN THE JEFFERSON COUNTY COALITION

- VILLAGE OF CARTHAGE
- VILLAGE OF WEST CARTHAGE
- CITY OF WATERTOWN
- VILLAGE OF BLACK RIVER
- TOWN OF LERAY
- JEFFERSON COUNTY
- TOWN OF WATERTOWN
- TOWN OF RUTLAND
- VILLAGE OF BROWNVILLE

COALITION WEBSITE: https://jcnystormwater.com/



MINIMUM CONTROL MEASURES (MCM'S)

- 6 MINIMUM CONTROL MEASURES WITHIN THE MS4 PERMIT
- MCM1 – PUBLIC EDUCATION AND OUTREACH
- MCM2 – PUBLIC INVOLVEMENT AND PARTICIPATION
- MCM3 – ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)
- MCM4 – CONSTRUCTION RUNOFF CONTROL
- MCM5 – POST CONSTRUCTION MANAGEMENT
- MCM6 – POLLUTION PREVENTION AND GOOD HOUSEKEEPING
- MAPPING (WBOC, GAOC, BOUNDARIES, ETC.)

MCM1 – PUBLIC EDUCATION AND OUTREACH

- THE MS4 OPERATOR MUST DEVELOP AND IMPLEMENT AN EDUCATION AND OUTREACH PROGRAM TO INCREASE PUBLIC AWARENESS OF POLLUTANT GENERATING ACTIVITIES AND BEHAVIORS.
- MUST IDENTIFY FOCUS AREAS, TARGET AUDIENCES AND EDUCATIONAL TOPICS
- ONCE PER PERMIT TERM, DELIVER EDUCATIONAL MESSAGE TO EACH TARGET AUDIENCE WITHIN EACH FOCUS AREA (I.E. EDUCATE RESIDENTS ON THE PROPER USE OF FERTILIZERS)

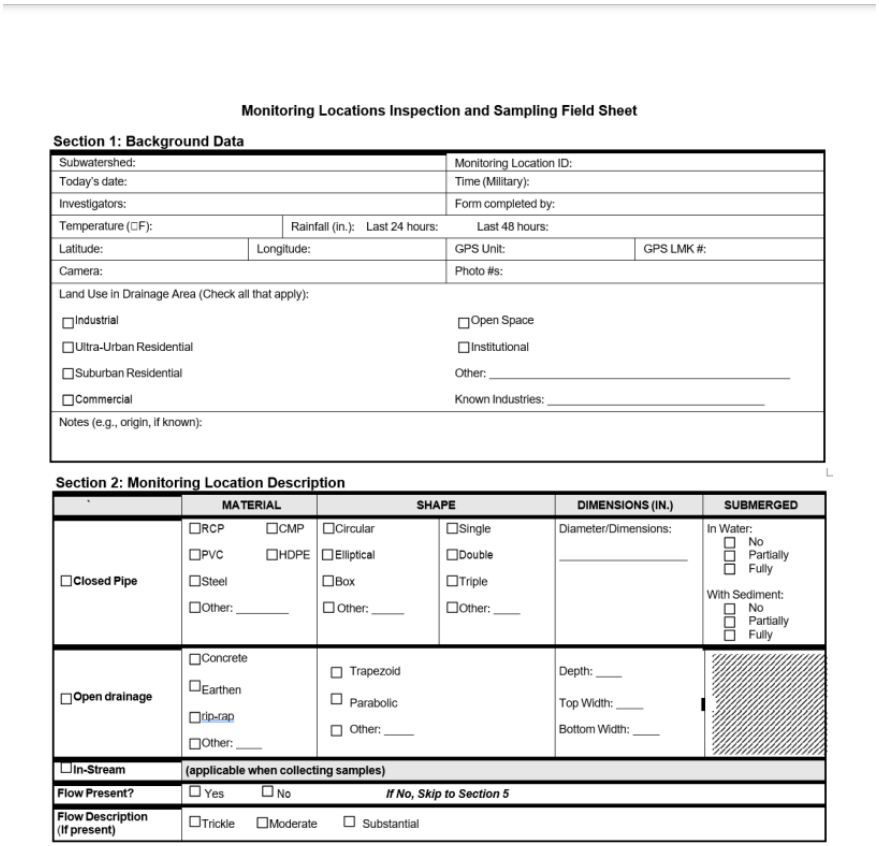
MCM2 – PUBLIC INVOLVEMENT AND PARTICIPATION

- MS4 OPERATORS MUST DEVELOP AND IMPLEMENT A PROGRAM TO INVOLVE THE PUBLIC IN ACTIVITIES AND DECISIONS THAT RELATE TO THE ISSUES OF STORMWATER POLLUTION
- PARTICIPATION OPPURTUNITIES INCLUDE PUBLIC REVIEW OF THE DRAFT ANNUAL REPORT, PROVIDING AN OPPORTUNITY TO COMMENT, AND INFORMING THE PUBLIC OF CHANCES TO BECOME MORE INVOLVED
- AN INVOLVED PUBLIC IS A USEFUL RESOURCE IN STORMWATER MANAGEMENT

MCM3 – ILLICIT DISCHARGE DETECTION AND ELIMINATION (IDDE)

- "ILLICIT DISCHARGE" – ANY DISCHARGE TO AN MS4 THAT IS NOT ENTIRELY COMPOSED OF STORMWATER (I.E. RESIDENTIAL SEWAGE)
- DISCHARGE AREAS (MONITORING LOCATIONS) INCLUDE MS4 OUTFALLS, INTERCONNECTIONS AND MUNICIPAL FACILITY DISCHARGES
- ILLICIT DISCHARGE TRACK DOWN AND ELIMINATION PROGRAMS – MUST BE IMPLEMENTED WITHIN 2 YEARS OF THE EFFECTIVE DATE OF THE PERMIT - THE IDDE PROGRAM MUST INCLUDE METHODS FOR PREVENTION, DETECTION, TRACK-DOWN, AND ELIMINATION
- IDENTIFY, PRIORITIZE AND INSPECT ALL MONITORING LOCATIONS

MONITORING LOCATION INSPECTION



Monitoring Locations Inspection and Sampling Field Sheet

Section 1: Background Data

Subwatershed:		Monitoring Location ID:	
Today's date:		Time (Military):	
Investigators:		Form completed by:	
Temperature (□F):	Rainfall (in.): Last 24 hours:	Last 48 hours:	
Latitude:	Longitude:	GPS Unit:	GPS LMK #:
Camera:		Photo #s:	

Land Use in Drainage Area (Check all that apply):

☐Industrial ☐Open Space

☐Ultra-Urban Residential ☐Institutional

☐Suburban Residential Other: _____

☐Commercial Known Industries: _____

Notes (e.g., origin, if known):

Section 2: Monitoring Location Description

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

Section 3: Quantitative Characterization

FIELD DATA FOR FLOWING MONITORING LOCATIONS				
PARAMETER		**RESULT**	**UNIT**	**EQUIPMENT**
☐ Flow #1	Volume		Liter	Bottle
	Time to fill		Sec	
☐ Flow #2	Flow depth		In	Tape measure
	Flow width	____' ____"	Ft, In	Tape measure
	Measured length	____' ____"	Ft, In	Tape measure
	Time of travel		S	Stop watch
Temperature			□F	Thermometer
pH			pH Units	Test strip/Probe
Ammonia			mg/L	Test strip

Monitoring Locations Inspection and Sampling Field Sheet

Section 4: Physical Indicators for Flowing Monitoring Locations Only

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

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

Section 5: Physical Indicators for Both Flowing and Non-Flowing Monitoring Locations

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

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Monitoring Location Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling ☐ Paint Corrosion	
Deposits/Stains	☐	☐Oily ☐Flow Line ☐Paint ☐Other:	
Abnormal Vegetation	☐	☐Excessive ☐Inhibited	
Poor pool quality	☐	☐Odors ☐Colors ☐Floatables ☐Oil ☐Sheen ☐Suds ☐Excessive Algae ☐Other:	
Pipe benthic growth	☐	☐Brown ☐Orange ☐Green ☐Other:	

Section 6: Overall Monitoring Location Characterization

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

Section 7: Data Collection

1. Sample for the lab?	☐Yes	☐No	
2. If yes, collected from:	☐Flow	☐Pool	
3. Intermittent flow trap set?	☐Yes	☐No	If Yes, type: ☐OBM ☐Caulk dam

Section 8: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

MCM4 – CONSTRUCTION RUNOFF CONTROL

- EACH MS4 IS RESPONSIBLE FOR RETAINING AND DOCUMENTING IN THE SWMP QUALIFIED INDIVIDUAL(S) AND/OR PROFESSIONAL FOR SWPPP REVIEW AND ACCEPTANCE. A QUALIFIED PROFESSIONAL IS REQUIRED FOR REVIEW OF POST-CONSTRUCTION SMPS
- INCLUDES CONSTRUCTION SITE INVENTORY AND PRIORITIZATION.
- ENSURE CONSTRUCTION SITES ARE INSPECTED ACCORDING TO THE TERMS SET FORTH IN THE MS4 PERMIT.
- PROVIDE A HOTLINE FOR PUBLIC REPORTING/COMPLAINTS.

CONSTRUCTION INSPECTION FORM

New York State Department of Environmental Conservation
Construction Site Inspection Report for SPDES MS4 General Permit GP-0-22-002

Project Name:		Date:	
Project Location:		Weather:	
Permit # (if any): **NYR**	Contacted: ☐Yes ☐No	Entry Time:	Exit Time:
Name of SPDES Permittee:		Inspection Type:	☐NOT ☐ Complaint
Phone Number(s):			☐ Compliance ☐ Referral
On-site Representative(s) and Company(s):		MS4 Operator Name:	
		MS4 Permit ID: NYR20A	

SPDES General Permit for Stormwater Discharges from Construction Activity - GP-0-20-001

#	Yes	No	N/A	General Permit Requirements	Permit Citation
1	☐	☐	☐	Does the project have permit coverage (if required)?	I.E. & II. B.1
2	☐	☐	☐	Is a copy of the General Permit available on site?	II.C.2.
3	☐	☐	☐	Is a copy of the MS4 SWPPP Acceptance Form available on site?	II.C.2.
4	☐	☐	☐	Is a current copy of the signed SWPPP retained at the construction site?	II.C.2.
5	☐	☐	☐	Is a copy of the NOI & Acknowledgment Letter retained at the construction site?	II.C.2.
6	☐	☐	☐	Was written authorization issued for any disturbance greater than 5 acres?	II.C.3.

#	Yes	No	N/A	SWPPP General Requirements	Permit Citation
7	☐	☐	☐	Is the SWPPP current (accurate Permittee information, reflect current project)?	II.E. & III.A.4
8	☐	☐	☐	SWPPP identifies potential sources of pollutants in runoff	III.A.2
9	☐	☐	☐	SWPPP identifies Trained Contractor.	III.A.6.
10	☐	☐	☐	Contractor/Subcontractor certification statements have been signed.	III.A.6.
11	☐	☐	☐	SWPPP is signed by responsible corporate officer, general partner, proprietor, principal executive officer, ranking elected official, or duly authorized representative.	VII.H.2.

#	Yes	No	N/A	Recordkeeping	Permit Citation
12	☐	☐	☐	Does Trained Contractor have current certification card?	VII.O.
13	☐	☐	☐	Are self-inspections performed at permit-required frequency?	
	☐	☐	☐	Daily during periods of soil disturbance by Trained Contractor	IV.B.1.
	☐	☐	☐	Weekly during soil disturbance by Owner/Operator for excepted projects	IV.C.1.
	☐	☐	☐	Weekly for soil disturbances <= 5 acres by Qualified Inspector	IV.C.2.a.
	☐	☐	☐	Twice weekly for soil disturbances >5acres or if water segment listed in App. C or E	IV.C.2.b.&e.
	☐	☐	☐	Monthly during periods of temporary stabilization by Qualified Inspector	IV.C.2.c
14	☐	☐	☐	Do the qualified inspector's reports include the minimum reporting requirements?	IV.C.4.
15	☐	☐	☐	Are the qualified inspector's reports signed and retained onsite?	IV.C.6.
16	☐	☐	☐	Do the inspection reports identify deficiencies that are recurring &/or corrective measures that have not been implemented, & include date-stamped color photos?	IV.C.4.

#	Yes	No	N/A	Visual Observations	Permit Citation
17	☐	☐	☐	Are all erosion and sediment control measures installed properly?	IV.C.4.g
18	☐	☐	☐	Are all erosion and sediment control measures being maintained properly?	IV.C.4.f.
19	☐	☐	☐	Have stabilization measures been implemented in inactive areas per Permit?	I.B.1.b.
20	☐	☐	☐	Are post-construction SMPs constructed/installed correctly?	IV.C.4.i.
21	☐	☐	☐	Has final site stabilization been achieved and temporary E&SC measures removed prior to NOT submittal?	V.A.2.
22	☐	☐	☐	Was there a discharge from the site on the day of inspection?	I.B.1.e. & f.
23	☐	☐	☐	Is there evidence that a discharge caused or contributed to a violation of water quality standards?	ECL 17-0501, and 6 NYCRR 703.2 and I.B.

Water Quality Observations

Describe the discharge(s): location, source(s), impact on receiving water(s), etc.

Describe the quality of the receiving water(s) both upstream and downstream of the discharge:

Describe any other water quality standards or permit violations:

Additional Comments

☐ Photographs attached

Overall Inspection Rating: ☐ Satisfactory ☐ Marginal ☐ Unsatisfactory

MCM5 – POST-CONSTRUCTION MANAGEMENT

- THE MS4 OPERATOR MUST DEVELOP, IMPLEMENT, AND ENFORCE A PROGRAM TO ENSURE PROPER OPERATION AND MAINTENANCE OF POST CONSTRUCTION SMPS FOR NEW OR REDEVELOPED SITES
- DEVELOP AND MAINTAIN AN INVENTORY OF POST-CONSTRUCTION SMPS INSTALLED AFTER MARCH 10, 2003
- DEVELOP AND IMPLEMENT A POST-CONSTRUCTION SMP INSPECTION AND MAINTENANCE PROGRAM

MCM6 – POLLUTION PREVENTION AND GOOD HOUSEKEEPING

- MUST DEVELOP AND IMPLEMENT A POLLUTION PREVENTION AND GOOD HOUSEKEEPING PROGRAM FOR MUNICIPAL FACILITIES AND MUNICIPAL OPERATIONS TO MINIMIZE POLLUTION DISCHARGES
- INVENTORY AND PRIORITIZE(HIGH AND LOW) MUNICIPAL FACILITES
- HIGH PRIORITY FACILITIES ARE REQUIRED TO HAVE A SITE SPECIFIC SWPPP WITHIN 5 YEARS OF THE EDP.
- IMPLEMENT BMP'S WHICH INCLUDE MINIMIZING EXPOSURE, FOLLWING A PREVENTATIVE MAINTENANCE PLAN, SPILL PREVENTION PROCEDURES, EROSION AND SEDIMENT CONTROL, ETC.

MAPPING AND LEGAL AUTHORITY

- MAPPING – DEVELOP AND MAINTAIN A COMPREHENSIVE SYSTEM MAP INCLUDING OUTFALL LOCATIONS, STORM-SEWER SHED BOUNDARIES, LAND USE, TOPOGRAPHY, ETC.
- MS4 OPERATORS MUST MAINTAIN ADEQUATE LEGAL AUTHORITY, TO THE EXTENT ALLOWABLE BY STATE AND LOCAL LAW, TO IMPLEMENT THE MS4 PERMIT

CONCLUSION

- THESE HIGHLIGHTED REQUIREMENTS ARE JUST THE “TIP OF THE ICEBERG”
- EACH CONTROL MEASURE CONTAINS EXTENSIVE REQUIREMENTS TO AID IN THE PREVENTION OF ILLICIT DISCHARGES