Exhibit 15

Outfall Inspection and Monitoring Procedures

Rev 0: 2020 SWMP Rev Date: 03/27/21 Rev By: EPW Based upon a joint GIS Mapping effort with Rensselaer County, there are approximately 220 municipal outfalls identified and mapped within the Town. The current inventory of outfalls is presented in Exhibit 14. As also indicated in Exhibit 14, the Town believes that the outfall survey is somewhat outdated, and is in the process of developing and implementing a procedure to inspect, review, and map outfalls throughout the Town.

The Town frequently conducts visual inspections of many of the outfalls, but has not fully implemented a system for logging inspections and inspection results. This Exhibit discusses the manner in which outfall inspections are conducted, and catalogued, both as a part of the mapping update project, but also to regularly review and monitor municipal outfalls throughout the Town.

Dry Weather Monitoring Inspections:

- The Town strives to monitor all outfalls each year, but at a minimum, 25% of MS4 outfalls will receive a Dry Weather Monitoring Inspection annually. As part of the Outfall Mapping Project discussed in Exhibit 14, the Town anticipates inspecting all outfalls within the following one to two years to restore the outfall mapping baseline.
- All primary outfalls in identified priority areas will be inspected annually. As part of the Outfall Mapping Project, the Town will refine the definition of primary outfalls and priority areas. The preliminary definition of these terms is as follows:
 - Primary Outfalls are larger-diameter outfalls that have the potential to discharge larger flows.
 - Priority Areas are locations where the outfall discharges directly, or nearly directly, into a Waterbody of Concern identified in Exhibit 5 or areas in which the outfall is in close proximity to a potential generator of Pollutants of Concern discussed in Exhibit 2.
- Inspections will be carried out by the Highway Department, Building Department, Town Designated Engineer, or other qualified individual with the approval of the Stormwater Management Officer.
- Dry-Weather Inspections will be conducted following a minimum of 48 hours of dry weather (1/10th of an inch of precipitation or less).
- An outfall inspection form will be completed for each MS4 outfall inspected and a record maintained in the office of the Stormwater Management Officer. A copy of the Outfall Inspection Form is attached to this Exhibit.
- The Stormwater Management Officer will update the Outfall Tracking Spreadsheet to reflect inspected outfalls and will work with the Highway Department, Building Department, or other personnel as required to address outfall maintenance issues.

- Any illicit or suspected illicit discharges noted during inspections will be communicated to the Stormwater Management Officer the day of the inspection.
- In the event that any sampling occurs during an outfall inspection, this will be communicated to the Stormwater Management Officer the day of the inspection.
- Maintenance performed on outfall structures will be communicated to the Stormwater Management Officer prior to the commencement of work.

Storm Event Monitoring:

- The Town does not currently have a formal program for monitoring outfalls during storm events, and is discussing the development of a limited procedure to review outfall operation during a storm. Generally, the program would potentially involve:
 - o Witnessing outfall flows for primary outfalls in priority areas as defined above.
 - Witnessing flows for outfalls in which the public has contacted the Stormwater Management Officer with concerns.
 - o Reviewing newly-installed outfalls to verify that they are operating generally as designed.

Town of North Greenbush Outfall Inspection Form

General Outfall Data				
Outfall ID:	Location:	New?		
Inspector:	Date:	Time:		
Temp:	Rainfall inches	in: Last 24 Hours Last 48 Hours		
Latitude:	Longitude:	As Mapped?		
Photos:	Logged:			
Drainage Area Land Use (Select all that apply) Industrial Open Space Urban Residential Suburban Residential Commercial Other: Notes:	ential	Maintenance Priority High Medium Low Notes:		
Outfall Characteristics				
Closed Pipe Material RCP				

Town of North Greenbush Outfall Inspection Form

Flow Characteristics					
☐ Flow Rate	By Known Volume				
Container Vo	lume: Time to Fill:	Calculated Flow Rate:			
☐ Flow Rate	By Measured Flow Geometry				
Flow Depth: Flow Width: Calculated Flow Volume:					
Measured Le	Measured Length of Travel: Time of Travel : Calculated Flow Rate:				
Temperature:	pH: Ammonia: _				
Odor	☐ Sewage ☐ Rancid/sour ☐ Petroleum ☐ Sulfide ☐ Other:	☐ Faint ☐ Easily Detected ☐ Detected From Afar			
Color	☐ Clear ☐ Brown ☐ Gray ☐ Yellow	Sample in Bottle	Outfall Flow		
Color	Green Orange Red Other	☐ Faint ☐ Easily Detected	☐ Visible in Flow		
Turbidity	Turbidity Slight cloudiness Cloudy Opaque Other:				
Floatables	Sewage (Toilet Paper) Suds/Froth	Few (origin unknown)	Some (indic. of origin)		
Ploatables	Petroleum (Sheen) Other	Some (original)	gin clear)		
Notes:					
Physical Indicators/Characteristics Not Related to Flow					
Outfall Spalling/Cracking Peeling Paint Damage Corrosion Other		Comments:			
Desposits /	Oily Flow Line	Comments:			
Stains	Paint Other				
Abnormal Excessive Inhibited Vegetation Other		Comments:			
Poor Pool	Odors Colors Floatables	Comments:			
Quality	☐ Sheen ☐ Suds ☐ Excessive Algae				
Pipe Benthic Brown Orange		Comments:			
Growth	Green Other				
Notes:					

Town of North Greenbush Outfall Inspection Form

Sample Data Collection				
Has a sample been collected for lab analysis?				
If yes, from where was the sample taken?				
Has an intermittent flow trap set?				
Notes:				
Other				
Is the structure to be characterized as an outfall?				
Unlikely Potential (two or more indicators) Suspect (one or more severe indicators) Notes:	Obvious 			
Are there any non-illicit discharge concerns (trash, required repairs, etc)? Notes:				
Are there any illicit discharge concerns?				
Notes:				
Other general comments				
Notes:				