Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part I: General Conditions

General Information

Name of Municipality or Organization: Tewksbury State: MA

EPA NPDES Permit Number (if applicable): MA-041226

Primary MS4 Program Manager Contact Information

Name: Brian Gilbert Title: Director of Public Works

Street Address Line 1: 999 Whipple Road

Street Address Line 2:

City: Tewksbury State: MA Zip Code: 01876

Email: bgilbert@tewksbury-ma.gov Phone Number: (978) 640-4440

Fax Number: (978) 551-5139

Other Information

Stormwater Management Program (SWMP) Location (web address or physical location, if already completed): Tewksbury's current SWMP is located here: http://www.tewksbury-ma.gov/swmp

Eligibility Determination

Endangered Species Act (ESA) Determination Complete? Yes

Eligibility Criteria (check all that apply): ☐ A ☐ B ☒ C

National Historic Preservation Act (NHPA) Determination Complete? Yes

Eligibility Criteria (check all that apply): ☒ A ☐ B ☐ C

☑ Check the box if your municipality or organization was covered under the 2003 MS4 General Permit

MS4 Infrastructure (if covered under the 2003 permit)

Estimated Percent of Outfall Map Complete? *(Part II, III, IV or V, Subpart B.3.(a.) of 2003 permit)* 100%

If 100% of 2003 requirements not met, enter an estimated date of completion (MM/DD/YY):

Web address where MS4 map is published:

If outfall map is unavailable on the internet an electronic or paper copy of the outfall map must be included with NOI submission (see section V for submission options)

A PDF of the Town's Drainage Map, including all outfalls and receiving waters is attached.

Regulatory Authorities (if covered under the 2003 permit)

Illicit Discharge Detection and Elimination (IDDE) Authority Adopted? *(Part II, III, IV or V, Subpart B.3.(b.) of 2003 permit)* Yes

Effective Date or Estimated Date of Adoption (MM/DD/YY): 01/01/10

Construction/Erosion and Sediment Control (ESC) Authority Adopted? *(Part II,III,IV or V, Subpart B.4.(a.) of 2003 permit)* Yes

Effective Date or Estimated Date of Adoption (MM/DD/YY): 01/01/11

Post- Construction Stormwater Management Adopted? *(Part II, III, IV or V, Subpart B.5.(a.) of 2003 permit)* Yes

Effective Date or Estimated Date of Adoption (MM/DD/YY): 01/01/11

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part II: Summary of Receiving Waters

Please list the waterbody segments to which your MS4 discharges. For each waterbody segment, please report the number of outfalls discharging into it and, if applicable, any impairments.

Massachusetts list of impaired waters: *Massachusetts 2014 List of Impaired Waters-* http://www.mass.gov/eea/docs/dep/water/resources/07v5/14list2.pdf

Check off relevant pollutants for discharges to impaired waterbodies (see above 303(d) lists) without an approved TMDL in accordance with part 2.2.2.a of the permit. List any other pollutants in the last column, if applicable.

Waterbody segment that receives flow from the MS4	Number of outfalls into receiving water segment	Chloride	Chlorophyll-a	Dissolved Oxygen/ DO Saturation	Nitrogen	Oil & Grease/ PAH	Phosphorus	Solids/ TSS/ Turbidity	E. coli	Enterococcus	Other pollutant(s) causing impairments
Shawsheen River (MA83-18)	16	☐	☐	☒	☐	☐	☐	☐	☐	☐	Fecal Coliform, Mercury in Fish Tissue (TMDL for Fecal Coliform)
Strong Water Brook (MA83-07)	12	☐	☐	☐	☐	☐	☐	☐	☐	☐	Fecal Coliform (TMDL for Fecal Coliform)
Pinnacle Brook (Unnamed Tributary to Meadow Brook) (MA83-15)	3	☒	☐	☐	☐	☐	☐	☐	☐	☐	Fecal Coliform (TMDL for Fecal Coliform)
Merrimack River (MA84A-03)	2	☐	☐	☐	☐	☐	☒	☐	☒	☐	Mercury in Fish Tissue, PCB in Fish Tissue
Wetlands draining to Concord River (MA82A-08)	2	☐	☐	☐	☐	☐	☒	☐	☐	☐	(Eurasian Water Milfoil, Myriophyllum spicatum*), (Non-native Aquatic Plants*), Mercury in Fish Tissue
Long Pond (MA83010)	4	☐	☒	☒	☐	☐	☒	☐	☐	☐	Excess Algal growth, Secchi disk transparency
Ames Pond (MA83001)	4	☐	☐	☐	☐	☐	☐	☐	☐	☐	Mercury in Fish Tissue
Unnamed Tributary to Shawsheen River (MA83-20); Dascomb Road, Andover to confluence with Shawsheen River		☒	☐	☐	☐	☐	☐	☐	☐	☐	
Trull Brook (MA84A-14)	3	☐	☐	☐	☐	☐	☐	☐	☒	☐	
Round Pond (MA83018)	2	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Pond behind Robert Circle	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Richardson Pond North (MA83020)	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Content Brook (MA83-09)	7	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Meadow Brook (MA83-12)	6	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Unnamed Tributary to Shawsheen River/Sutton Brook (MA83-21)	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Unnamed Tributary between Strongwater River and Round Pond	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Round Pond	2	☐	☐	☐	☐	☐	☐	☐	☐	☐	

Heath Brook	19	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Waterbody segment that receives flow from the MS4	**Number of outfalls into receiving water segment**	**Chloride**	**Chlorophyll-a**	**Dissolved Oxygen/ DO Saturation**	**Nitrogen**	**Oil & Grease/ PAH**	**Phosphorus**	**Solids/ TSS/ Turbidity**	**E. coli**	**Enterococcus**	**Other pollutant(s) causing impairments**
Wetland near Main Street and Salem Road	8	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland to Unnamed tributary (MA83-21)	8	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Small Pond near Round Pond around Heritage Dr	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Large Wetland between Main Street and I-495, basin to Trull Brook	38	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Small Wetland near Roper Lane	4	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Marginal Brook	13	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Small Pond near Rogers Drive	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Small Wetland near Wedgewood Road	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland basin of Strong Water River around Cinnamon Circle	4	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Small Wetland near Tilton Circle	2	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Small Pond behind Walmart	2	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland near Brown Street draining to Shawsheen River	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland between State Street and Sandy Lane	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Mud Pond	6	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland near Dakota Road	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Small Wetland near Decoris Drive draining to Shawsheen River	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Pond in front of Market Basket	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland to Shawsheen River along Redgate Road	7	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Waterbody segment that receives flow from the MS4	**Number of outfalls into receiving water segment**	**Chloride**	**Chlorophyll-a**	**Dissolved Oxygen/ DO Saturation**	**Nitrogen**	**Oil & Grease/ PAH**	**Phosphorus**	**Solids/ TSS/ Turbidity**	**E. coli**	**Enterococcus**	**Other pollutant(s) causing impairments**
Wetland near Jills Way	3	☐	☐	☐	☐	☐	☐	☐	☐	☐	

Ponds in the Country Club	18	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland near John Street	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetlands connecting the Unnamed Tributary between Stronwater River and Round Pond and Heath Brook	21	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland near Victor Drive	4	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland near Lucille Drive	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland behind Lumber Lane	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland near Judique Road	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland through Tewksbury Center	10	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland along Cayuga Road	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland along Catamount Road	2	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland near Lancaster Drive	2	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland between Windsor Drive and Merston Street	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetlands along Farwood Road	7	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland near Bopete Lane	2	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetlands in Melvin Rogers Park	2	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland draining to Ames Pond	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland near Beech Street	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Waterbody segment that receives flow from the MS4	**Number of outfalls into receiving water segment**	**Chloride**	**Chlorophyll-a**	**Dissolved Oxygen/ DO Saturation**	**Nitrogen**	**Oil & Grease/ PAH**	**Phosphorus**	**Solids/ TSS/ Turbidity**	**E. coli**	**Enterococcus**	**Other pollutant(s) causing impairments**
Wetland near East Street and Maple Street	2	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetlands around Jennies Way	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Small Wetland between Strong Water Brook and Round Pond, near Henry J. Drive	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Small wetland around Patten Road	4	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Small wetland tributary to Shawsheen River between Kearsage and Lowe Street	5	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetlands near Bruce Street	4	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetlands near Thorndike Lane	2	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland tributary to Trull Brook	3	☐	☐	☐	☐	☐	☐	☐	☐	☐	

Wetlands near Sawyers Lane	2	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetlands around Fiske Street	10	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland around Andover Street	3	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Pond near Apache Way (North/East)	8	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Pond near Apache Way (North)	4	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Pond near Apache Way (South)	4	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Stream behind Bonnie Lane	4	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland to Pinnacle Brook	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland near David Morris Road	3	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Wetland near Sandlewood Circle	1	☐	☐	☐	☐	☐	☐	☐	☐	☐	
Waterbody segment that receives flow from the MS4	**Number of outfalls into receiving water segment**	**Chloride**	**Chlorophyll-a**	**Dissolved Oxygen/ DO Saturation**	**Nitrogen**	**Oil & Grease/ PAH**	**Phosphorus**	**Solids/ TSS/ Turbidity**	**E. coli**	**Enterococcus**	**Other pollutant(s) causing impairments**
Small wetland near Champion Street	4	☐	☐	☐	☐	☐	☐	☐	☐	☐	
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		☐	☐	☐	☐	☐	☐	☐	☐	☐	
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Click to lengthen table

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary

Identify the Best Management Practices (BMPs) that will be employed to address each of the six Minimum Control Measures (MCMs). For municipalities/organizations whose MS4 discharges into a receiving water with an approved Total Maximum Daily Load (TMDL) and an applicable waste load allocation (WLA), identify any additional BMPs employed to specifically support the achievement of the WLA in the TMDL section at the end of part III.

For each MCM, list each existing or proposed BMP by category and provide a brief description, responsible parties/departments, measurable goals, and the year the BMP will be employed (public education and outreach BMPs also requires a target audience). **Use the drop-down menus in each table or enter your own text to override the drop down menu.**

MCM 1: Public Education and Outreach

BMP Media/Category (enter your own text to override the drop down menu)	**BMP Description**	**Targeted Audience**	**Responsible Department/Parties** (enter your own text to override the drop down menu)	**Measurable Goal**	**Beginning Year of BMP Imple-mentation**
Web Page	Continue to maintain and update the Town's stormwater webpage to provide information to residents on stormwater management.	Residents	Engineering Division	Update Town website annually and track number of visitors to the page site annually.	FY19
Brochures/Pamphlets	Distribute educational materials targeted at encouraging the proper use of salt and de-icing policies.	Businesses, Institutions and Commercial Facilities	Engineering Division	Create new or modify existing templates and distribute to target audience. Track number of institutions that receive the brochure.	FY19

Brochures/Pamphlets	Distribute brochures to prospective developers and contractors providing general information on stormwater management and summarize information on the Town's erosion and sediment control rules and regulations	Developers (construction)	Engineering Division, Community Development	Distribute brochure during year 2 and maintain a list of all recipients.	FY20
Brochures/Pamphlets	Distribute educational materials to industrial properties regarding stormwater best management practices, including equipment inspection, waste disposal, dumpster maintenance, use and storage of de-icing materials, and parking lot sweeping.	Industrial Facilities	Engineering Division	Create new or modify existing templates and distribute to target audience. Track the number of industrial facilities that receive the information.	FY20
Special Events/Festivals/Fairs	Staff a booth at Town-wide public events and provide educational information about pet waste, car washing, yard care and stormwater impacts to local residents.	Residents	Engineering Division	Track the number of people that visit the booth and the quantity of any materials that are distributed.	FY21

Brochures/Pamphlets	Distribute educational information to businesses about the importance of reducing the amount of phosphorous-containing fertilizers, proper disposal of grass clippings and leaf litter, and the possibility of disconnecting impervious surfaces to reduce stormwater runoff.	Businesses, Institutions and Commercial Facilities	Engineering Division	Create new or modify existing templates and distribute to target audience and maintain a list of all recipients	FY21
Brochures/Pamphlets	Promote LID practices such as vegetated filter strips to treat and infiltrate stormwater on site to offset impervious area created by construction.	Developers (construction)	Engineering Division, Community Development	Create new or modify existing templates and distribute to target audience Monitor number of brochures distributed and kept at local displays.	FY22
Brochures/Pamphlets	Promote proper fleet maintenance and prevention of runoff from vehicle washing from entering the storm sewer infrastructure.	Industrial Facilities	Engineering Division	Create new or modify existing templates and distribute to target audience. Maintain a list of all industrial facilities visited.	FY22

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 2: Public Involvement and Participation

BMP Categorization	Brief BMP Description (enter your own text to override the drop down menu)	Responsible Department/Parties (enter your own text to override the drop down menu)	Additional Description/ Measurable Goal	Beginning Year of BMP Imple-mentation
Public Review	Provide for Public Review of SWMP and Annual Reports	Engineering Division	Allow for public review of the SWMP annually. Post the SWMP and annual reports on the Town's website and/or make them available at Town Hall.	FY19
Public Participation	Stormwater Committee/Task Force	Engineering Division	Provide public notice for stormwater committee meetings and allow public access to stormwater meeting schedule and meeting minutes on town website.	FY19
Public Participation	Cleanups - Roadside/General	Deparment of Public Works	Continue to encourage public participation in clean-up days and zero waste days, including Earth Day. Continue to facilitate and support annual cleanups.	FY19
Public Participation	Household haz. waste/used oil collection	Department of Public Works	Provide information to residents on locations to drop off various materials and waste oil. Track amount of material collected annually.	2019
Public Participation	Used Battery Drop Off	Department of Public Works	Accept used batteries at Public Works building and track amount collected annually.	2019

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 3: Illicit Discharge Detection and Elimination (IDDE)

BMP Categorization (enter your own text to override the drop down menu)	**BMP Description**	**Responsible Department/Parties** (enter your own text to override the drop down menu)	**Measurable Goal** (all text can be overwritten)	**Beginning Year of BMP Imple-mentation**
SSO inventory	Develop inventory of where SSOs have discharged in the last 5 years.	Department of Public Works	Complete within 1 year of effective date of permit and continue to update SSO inventory annually.	FY19
Storm sewer system map	Update drainage map in accordance with permit conditions and update annually during IDDE program investigations.	Engineering Division	Update map within 2 years of permit effective date and complete full system map 10 years after effective date of permit. Report on progress in annual reports.	FY20
Written IDDE program	Create written IDDE program to meet permit conditions	Engineering Division	Complete within 1 year of the effective date of permit and update as required.	FY19
Implement IDDE program	Implement catchment investigations according to program and permit conditions.	Engineering Division	Complete 10 years after effective date of permit	FY20
Employee training	Train employees on IDDE plan components and IDDE program implementation.	Engineering Division/Department of Public Works	Provide training annually and track the number of employees trained each year.	FY19
Conduct dry weather screening	Conduct dry weather outfall screening and sampling in accordance with permit conditions.	Engineering Division	Complete within 3 years of permit effective date.	FY21
Conduct wet weather screening	Conduct wet weather sampling at outfalls/ interconnections in catchments where System Vulnerability Factors are present in accordance with permit conditions.	Engineering Division	Complete within 10 years of permit effective date.	FY22

Ongoing screening	Conduct dry weather and wet weather screening (as necessary)	Engineering Division	Complete ongoing outfall screening upon completion of IDDE investigations.	FY29
Priority Ranking	Assess and rank the potential for all catchments to have illicit discharges. Identify catchments with System Vulnerability Factors that will necessitate wet weather sampling.	Engineering Division	Complete within 1 year of permit effective date	FY19
Follow-up Ranking	Update catchment prioritization and ranking as dry weather screening information becomes available.	Engineering Division	Complete within 3 years of permit effective date.	FY21
Catchment Investigation Procedures	Develop written catchment investigation procedures and incorporate into IDDE Plan	Engineering Division	Complete within 18 months of permit effective date	FY19
Monitor Septic Systems	Continue to allow for reports of failing septic systems and repair when possible.	Health Department	Continue to monitor reports and conduct remediation when possible. Record number of issues addressed through this program.	FY19

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 4: Construction Site Stormwater Runoff Control

BMP Categorization (enter your own text to override the drop down menu or entered text)	**BMP Description**	**Responsible Department/Parties** (enter your own text to override the drop down menu)	**Measurable Goal** (all text can be overwritten)	**Beginning Year of BMP Imple-mentation**
Site inspection and enforcement of Erosion and Sediment Control (ESC) measures	Sections 19.100 and 19.110 of the Town's General Bylaws governing Stormwater Management and Erosion Control outline site inspection procedures, and enforcement. Town shall review existing site inspection and enforcement procedures to ensure full compliance with the permit conditions, and update as needed.	Community Development, Engineering Division	Update existing site inspection and enforcements procedures as needed within 1 year of the effective date of permit.	FY19
Site plan review	The Town shall develop and implement written site plan review procedures.	Community Development	Complete within 1 year of the effective date of permit	FY19
Erosion and Sediment Control	Continue to require construction operators to implement a sediment and erosion control plan as defined in section 19.120 of the the Town's General Bylaws governing Stormwater Management and Erosion Control. Review existing erosion and sediment control requirements to ensure BMPs are appropriate for site conditions.	Community Development	Update existing bylaw as needed to meet permit requirements within 1 year of the effective date of permit.	FY19

Waste Control	Amend Chapter 19 of the Town's General Bylaws to include specific requirements related to the control of wastes at construction sites including discarded building materials, concrete truck washout, chemicals, litter, and sanitary waste.	Community Development	Complete within 1 year of the effective date of permit	FY19

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 5: Post-Construction Stormwater Management in New Development and Redevelopment

BMP Categorization (enter your own text to override the drop down menu or entered text)	**BMP Description**	**Responsible Department/Parties** (enter your own text to override the drop down menu)	**Measurable Goal** (all text can be overwritten)	**Beginning Year of BMP Imple-mentation**
As-built plans for on-site stormwater control	Section 19.030 of the Town's General Bylaws currently requires the submission of a post-construction O&M Plan. Review existing requirements and update as need to meet permit requirements. Update Section 19.050 Part L of the Town's general bylaws to require submission of as-builts within two years of completion of construction.	Community Development	Review and update within two years of permit effective date.	FY20
Target and Rank Properties for BMP Retrofitting	Identify at least 5 permittee-owned properties that could be modified or retrofitted with BMPs to reduce frequency, volume, and pollutant loads associated with sotrmwater discharges, and update annually.	Engineering Division	Complete 4 years after effective date of permit and report annually on retrofitted properties	FY22
Allow green infrastructure practices	Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist	Community Development	Complete 4 years after effective date of permit and implement recommendations of report, where feasible.	FY22

Street design and parking lot guidelines	Develop a report assessing requirements that affect the creation of impervious cover. The assessment will help determine if changes to design standards for streets and parking lots can be modified to support low impact design options.	Community Development	Complete 4 years after effective date of permit and implement recommendations of report, where feasible.	FY22
Ensure any stormwater controls or management practices for new development and redevelopment meet the retention or treatment requirements of the permit and all applicable requirements of the Massachusetts Stormwater Handbook	Section 19.120 of the Town's General Bylaws currently requires compliance with the Massachusetts Stormwater Management Standards, and includes retention and treatment requirements for post-construction stormwater controls. Review existing regulatory requirements and update as needed to ensure full compliance with permit conditions.	Community Development, Engineering Division	Complete within two years of permit effective date.	FY20

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

MCM 6: Municipal Good Housekeeping and Pollution Prevention

BMP Categorization (enter your own text to override the drop down menu or entered text)	**BMP Description**	**Responsible Department/Parties** (enter your own text to override the drop down menu)	**Measurable Goal** (all text can be overwritten)	**Beginning Year of BMP Imple-mentation**
O&M procedures	Update existing and create new written O&M procedures as needed to include all requirements contained in 2.3.7.a.ii for parks and open spaces, buildings and facilities, and vehicles and equipment.	Department of Public Works, Facilities Department, School Dept	Complete and implement 2 years after effective date of permit	FY20
Inventory all permittee-owned parks and open spaces, buildings and facilities, and vehicles and equipment	Create inventory	Engineering Division, Department of Public Works, Facilities Departmer	Complete 2 years after effective date of permit and implement annually	FY20
Infrastructure O&M	Establish and implement program for repair and rehabilitation of MS4 infrastructure	Engineering Division, Department of Public Works	Complete 2 years after effective date of permit	FY20
Stormwater Pollution Prevention Plan (SWPPP)	Continue to implement SWPPPs developed for the Town's DPW facility at 999 Whipple Road and the water treatment plant at 71 Merrimac Drive. Review existing SWPPPs and update as needed to meet permit requirements.	Engineering Division, Department of Public Works	Within two years of permit effective date, update as needed and continue to implement all existing SWPPPs, including performing required inspections and training. Report annually on inspections and training.	FY20
Catch basin cleaning	Establish schedule for catch basin cleaning such that each catch basin is no more than 50% full and clean catch basins on that schedule.	Department of Public Works	Clean catch basins on established schedule and report number of catch basins cleaned and volume of material removed annually.	FY19

Street sweeping program	Sweep all streets and permitee-owned parking lots in accordance with permit conditions	Department of Public Works	Sweep all streets and permitee-owned parking lots once per year in the spring. Sweep selected streets a second time in the fall to meet requirements specific to impaired waters.	FY19
Road salt use optimization program	Establish and implement a program to minimize the use of road salt	Department of Public Works	Implement salt use optimization during deicing season	FY19
Inspection and maintenance of stormwater treatment structures	Establish and implement inspection and maintenance procedures and frequencies	Department of Public Works, Engineering Division	Inspect and maintain treatment structures at least annually. Report number of structures inspected and cleaned annually.	FY19
Catch basin cleaning optimization	Develop and implement a plan to optimize inspection, cleaning, and maintenance of catch basins to ensure that permit conditions are met.	Department of Public Works	Complete within two years of permit effective date	FY20

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

Actions for Meeting Total Maximum Daily Load (TMDL) Requirements

Use the drop-down menus to select the applicable TMDL, action description to meet the TMDL requirements, and the responsible department/parties. If no options are applicable, or more than one, **enter your own text to override drop-down menus.**

Applicable TMDL	Action Description	Responsible Department/Parties (enter your own text to override the drop down menu)
Shawsheen River (MA83-18) (Bacteria/Pathogens)	Adhere to requirements in part A.III of Appendix F	Engineering Division/Health Department
Strong Water Brook (MA83-07) (Bacteria/Pathogens)	Adhere to requirements in part A.III of Appendix F	Engineering Division/Health Department
Unnamed Tributary to Meadow Brook (MA83-15) (Bacteria	Adhere to requirements in part A.III of Appendix F	Engineering Division/Health Department

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part III: Stormwater Management Program Summary (continued)

Actions for Meeting Requirements Related to Water Quality Limited Waters

Use the drop-down menus to select the pollutant causing the water quality limitation and enter the waterbody ID(s) experiencing excursions above water quality standards for that pollutant. Choose the action description from the dropdown menu and indicate the responsible party. If no options are applicable, or more than one, **enter your own text to override drop-down menus.**

Pollutant	Waterbody ID(s)	Action Description	Responsible Department/Parties (enter your own text to override the drop down menu)
Phosphorus	Merrimack River (MA84A-03)	Adhere to requirements in part II of Appendix H	Engineering Div/Department of Public Works/Community Develop.
Phosphorus	Concord River (MA82A-08)	Adhere to requirements in part II of Appendix H	Engineering Div/Department of Public Works/Community Develop.
Phosphorus	Long Pond (MA83010)	Adhere to requirements in part II of Appendix H	Engineering Div/Department of Public Works/Community Develop.
E. Coli	Trull Brook (MA84A-14)	Adhere to requirements in part III of Appendix H	Engineering Div/Department of Public Works/Community Develop.
Chloride	Pinnacle Brook (Unnamed Tributary to Meadow Brook) (MA83-15)	Adhere to requirements in part IV of Appendix H	Engineering Div/Department of Public Works/Community Develop.
Chloride	Unnamed Tributary to Shawsheen River (MA83-20)	Adhere to requirements in part IV of Appendix H	Engineering Div/Department of Public Works/Community Develop.

Part IV: Notes and additional information

Use the space below to indicate the part(s) of 2.2.1and 2.2.2 that you have identified as not applicable to your MS4 because you do not discharge to the impaired water body or a tributary to an impaired water body due to nitrogen or phosphorus. Provide all supporting documentation below or attach additional documents if necessary.
Also, provide any additional information about your MS4 program below.

Actions currently proposed within this Notice of Intent are not anticipated to affect the Northern Long Eared Bat, which is the only federal threatened species within Tewksbury. As Best Management Practices are constructed in the future, the Town will consult with US Fish & Wildlife prior to construction activities.

Notice of Intent (NOI) for coverage under Small MS4 General Permit

Part V: Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name:	Richard Montuori	Title:	Town Manager
Signature:	Richard Montuori Digitally signed by Richard Montuori DN: cn=Richard Montuori, o=Town of Tewksbury, ou=Town Manager, email=rmontuori@tewksbury-ma.gov, c=US Date: 2018.10.01 09:17:44 -04'00'	Date:	

[To be signed according to Appendix B, Subparagraph B.11, Standard Conditions]

Note: When prompted during signing, save the document under a new file name

Notice of Intent for Coverage under the Small MS4 General Permit – Supplemental Information

Tewksbury, MA

Impaired Waters (w/Approved TMDL)

Tewksbury's MS4 discharges to three water bodies that are covered under the Bacteria TMDL for the Shawsheen River Basin, including the Shawsheen River (MA83-18), Strong Water Brook (MA83-07) and Pinnacle Brook (MA83-15), which are impaired for fecal coliform. Per Part III of this Notice of Intent, and per Part 2.2.1. and Appendix F of the 2016 MS4 Permit, best management practices that will be implemented to meet requirements related to water quality limited water bodies include:

- F.III.1.a.i.1 Distribution of residential message on pet waste management annually. Beginning year of implementation: Permit Year 1 – 2018 - 2019.

- F.III.1.a.i.1 Dissemination of required public education information to dog owners annually at license renewal. Beginning year of implementation: Permit Year 1 – 2018 - 2019.

- F.III.1.a.i.1 Distribution of public education materials to septic system owners annually. Beginning year of implementation: Permit Year 1 – 2018 - 2019.

- F.III.2.a.ii Ranking of catchments tributary to bacteria/pathogen impaired waters as Problem or High in catchment ranking. Beginning year of implementation: Permit Year 1 – 2018 - 2019.

Impaired Waters (w/out Approved TMDL)

Tewksbury's MS4 discharges to water bodies or is tributary to water bodies that are impaired for phosphorus, and therefore require the development of a TMDL (Merrimack River (MA84A-03), the Concord River (MA82A-08) and Long Pond (MA83010). Tewksbury also has water bodies that are impaired for bacteria/pathogens (Trull Brook (MA84A-14)) and chloride (Pinnacle Brook (MA83-15) and Unnamed Tributary to Shawsheen River (MA83-20)) without an approved TMDL. Per Part III of this Notice of Intent, and per Part 2.2.2. and Appendix H of the 2016 MS4 Permit, best management practices that will be implemented to meet requirements related to water quality limited water bodies include:

For catchments tributary to phosphorus-impaired water bodies (Merrimack River, Concord River and Long Pond):

- H.II.1.a.i.1 Distribution of educational messages to residential and business/commercial/ institutional property owners annually in the spring (March/April) on the proper use and disposal of grass clippings and the proper use of slow-release and phosphorous-free fertilizers. Beginning year of implementation: Permit Year 1 - 2018-2019.

- H.II.1.a.i.1 Distribution of pet waste management message to residential property owners annually in the summer (June/July). Beginning year of implementation: Permit Year 1 - 2018-2019.

- H.II.1.a.i.1 Distribution of leaf litter disposal message to Residential/Business/Commercial property owners annually in the fall (August/September/October). Beginning year of implementation: Permit Year 1 - 2018-2019.

- H.II.1.a.i.2 Modification of stormwater management regulations to require that new development and re-development stormwater BMPs are optimized for phosphorus removal within 2 years of permit effective date. Beginning year of implementation: Permit Year 2 - 2019-2020.

- H.II.1.a.i.2 Inventory and priority ranking of permittee-owned property and infrastructure that can be retrofitted with BMPs to include consideration of BMPs that infiltrate stormwater within 2 years of permit effective date. Beginning year of implementation: Permit Year 2 - 2019-2020.

- H.II.1.a.i.3 Development of a program to manage grass clippings and leaf litter on permittee owned property within 2 years of permit effective date. Beginning year of implementation: Permit Year 2 - 2019-2020.

- H.II.1.a.i.3 An increase in frequency of sweeping of public streets and municipal parking lots town-wide to a minimum of two times per year (once in the spring following winter activities such as sanding and once in the fall following leaf fall) in the areas of the town that are tributary to the Merrimack River, Concord River, and Long Pond. Beginning year of implementation: Permit Year 1 – 2018 - 2019.

- H.II.1.b Development of a Phosphorus Source Identification Report within 4 years of the permit effective date. Beginning year of implementation: Permit Year 4 – 2021-2022.

- H.II.1.c Evaluation of all permittee-owned properties identified as presenting retrofit opportunities or areas for structural BMP installation or identified in the Phosphorus Source Identification Report that are within the drainage area of the Merrimack River, Concord River, or Long Pond or its tributaries within 5 years of the permit effective date. Beginning year of implementation: Permit Year 5 – 2022-2023.

- H.II.1.c Planning/installation of one structural BMP demonstration project within 6 years of the permit effective date. Beginning year of implementation: Permit Year 6 – 2023-2024.

- H.II.1.c Installation of remaining BMP retrofits in accordance with the plan and schedule identified in the Town's Year 5 Annual Report.

- H.II.1.c Tracking and reporting of BMP installations and estimated phosphorus removal annually starting in Year 6. Beginning year of implementation: Permit Year 6 – 2023-2024.

<u>For catchments tributary to bacteria-impaired water bodies (Trull Brook)</u>:

- H.III.2.a.i Distribution of residential message on pet waste management annually. Beginning year of implementation: Permit Year 1 – 2018 - 2019.

- H.III.2.a.i Dissemination of required public education information to dog owners annually at license renewal. Beginning year of implementation: Permit Year 1 – 2018 - 2019.

- H.III.2.a.i Distribution of public education materials to septic system owners annually, as applicable. Beginning year of implementation: Permit Year 1 – 2018 - 2019.

- H.III.2.a.ii Ranking of catchments tributary to bacteria/pathogen impaired waters as Problem or High in catchment ranking. Beginning year of implementation: Permit Year 1 – 2018 - 2019.

<u>For catchments tributary to chloride-impaired water bodies (Pinnacle Brook and Unnamed Tributary to the Shawshe</u>

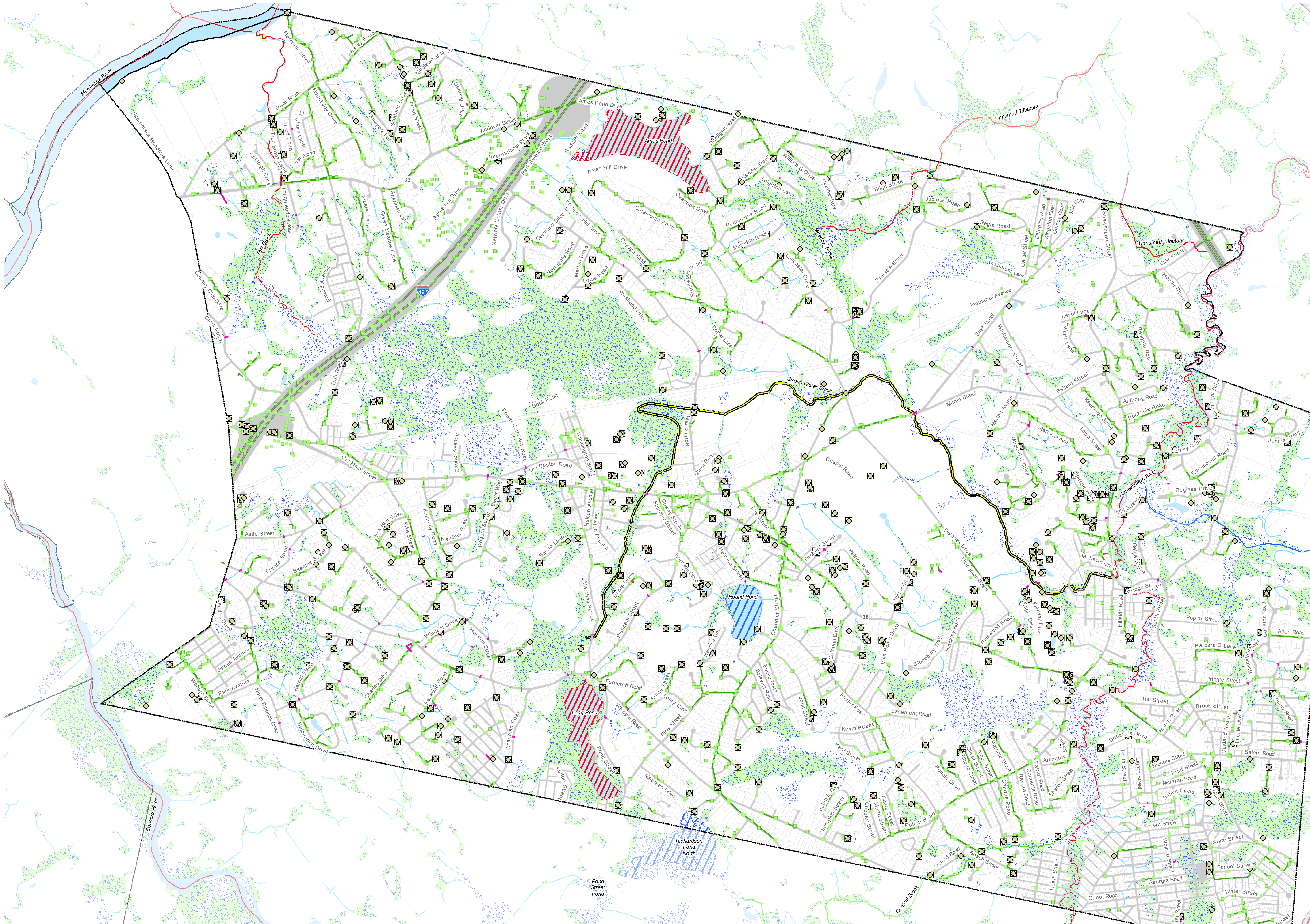
- H.IV.2. Development of a Salt Reduction Plan that includes specific actions designed to achieve salt reduction on municipal roads and facilities, and on private facilities that discharge to the MS4 in the impaired catchment. Beginning year of implementation: Permit Year 3 – 2020 - 2021. The Salt Reduction Plan must be fully implemented by the end of Permit Year 5 – 2022 – 2023.

- H.IV.4.a For municipally-owned surfaces, elements of the Salt Reduction Plan shall include:

    - Tracking of the amounts and types of salt applied to all permittee-owned surfaces.
    - Operational changes.
    - Implementation of new or modified equipment.
    - Training for municipal staff and contractors.
    - Adoption of guidelines for application rates for roads and parking lots.
    - Regular calibration of spreading equipment.
    - Designation of no-salt and/or low salt zones.
    - Measures to prevent exposure of salt stockpiles to precipitation and runoff.
    - An estimate of the total tonnage of salt reduction by each activity.

- H.IV.4.b For privately-maintained facilities that discharge to the MS4, elements of the Salt Reduction Plan shall include:

    - A regulatory mechanism that prevents exposure of any salt stockpiles to precipitation and runoff at all commercial and industrial properties within the regulated area.
    - Per Part 2.3.2, an annual public education message in November/December to private road salt applicators and commercial and industrial site owners on the proper storage and application rates of winter deicing material.
    - Per Part 2.3.6, for Stormwater Management in New Development and Redevelopment, procedures and requirements to minimize salt usage and require the use of salt alternatives where necessary.



Outfalls		2 - Attaining some uses; other uses not assessed		2 - Attaining some uses; other uses not assessed		Hydrologic Connection	
Catch Basins		3 - No uses assessed		3 - No uses assessed		Marsh/Bog	
Culvert		4A -Impaired - TMDL is completed		4A -Impaired - TMDL is completed		Wooded marsh	
Gravity Storm Main		4C - Impairment not caused by a pollutant		4C - Impairment not caused by a pollutant		Open Water	
		5 - Impaired - TMDL required		5 - Impaired - TMDL required			

0.25 0 0.25
Miles

FIGURE 1

TOWN OF TEWKSBURY
MS4 NOI

DRAINAGE SYSTEM AND
RECEIVING WATERS

SEPTEMBER 2018 SCALE: NOTED

Weston & Sampson[SM]