

Part I: General Conditions

General Information

Name of Municipality or Organization: State:

EPA NPDES Permit Number (if applicable):

Primary MS4 Program Manager Contact Information

Name: Title:

Street Address Line 1:

Street Address Line 2:

City: State: Zip Code:

Email: Phone Number:

Fax Number:

Other Information

Stormwater Management Program (SWMP) Location (web address or physical location, if already completed):

Eligibility Determination

Endangered Species Act (ESA) Determination Complete?

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

National Historic Preservation Act (NHPA) Determination Complete?

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

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

Part II: Summary of Receiving Waters

Please list the waterbodies to which your MS4 discharges. For each waterbody, please report the number of outfalls discharging into it and, if applicable, the segment ID and 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](http://www.mass.gov/eea/docs/dep/water/resources/07v5/14list2.pdf)

Waterbody that receives flow from the MS4 and segment ID if applicable	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
"South Rod & Gun Club" Pond	2	☐	☐	☐	☐	☐	☐	☐	☐	☐	
"USDA" wetland	2	☐	☐	☐	☐	☐	☐	☐	☐	☐	
"UTES" wetland	4	☐	☐	☐	☐	☐	☐	☐	☐	☐	
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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

[illegible]

[illegible]

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Part III: Stormwater Management Program Summary (continued)

MCM 2: Public Involvement and Participation

[illegible]

Notice of Intent (NOI) for coverage under Small MS4 General PermitPart 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 Implementation
SSO inventory	Develop SSO inventory in accordance of permit conditions	Environmental Department	Complete within 4 years of effective date of permit	2022
Storm sewer system map	Create map and update during IDDE program completion	Environmental Department	Update map within 5 years of effective date of permit and complete full system map 10 years after effective date of permit	2023
Written IDDE program	Create written IDDE program	Environmental Department	Complete within 4 years of the effective date of permit and update as required	2022
Implement IDDE program	Implement catchment investigations according to program and permit conditions	Environmental Department	Complete 13 years after effective date of permit	2031
Employee training	Train employees on IDDE implementation	Environmental Department	Train annually once IDDE complete	2022
Conduct dry weather screening	Conduct in accordance with outfall screening procedure and permit conditions	Environmental Department	Complete 6 years after effective date of permit	2023
Conduct wet weather screening	Conduct in accordance with outfall screening procedure	Environmental Department	Complete 13 years after effective date of permit	2031
Ongoing screening	Conduct dry weather and wet weather screening (as necessary)	Environmental Department	Complete ongoing outfall screening upon completion of IDDE program	2031

[illegible]

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 Implementation
Site inspection and enforcement of Erosion and Sediment Control (ESC) measures	Complete written procedures of site inspections and enforcement procedures	Facilities Engineering Department	Complete within 3 years of the effective date of permit	2021
Site plan review	Complete written procedures of site plan review and begin implementation	Facilities Engineering Department	Complete within 3 years of the effective date of permit	2021
Erosion and Sediment Control	Adoption of requirements for construction operators to implement a sediment and erosion control program	Facilities Engineering Department	Complete within 3 years of the effective date of permit	2021
Waste Control	Adoption of requirements to control wastes, including but not limited to, discarded building materials, concrete truck wash out, chemicals, litter, and sanitary wastes	Facilities Engineering Department	Complete within 3 years of the effective date of permit	2021

[illegible]

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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 Implementation
As-built plans for on-site stormwater control	The procedures to require submission of as-built drawings and ensure long term operation and maintenance will be a part of the SWMP	Facilities Engineering Department	Require submission of as-built plans for completed projects	2021
Target properties to reduce impervious areas	Identify at least 5 permittee-owned properties that could be modified or retrofitted with BMPs to reduce impervious areas and update annually	Facilities Engineering Department	Complete 6 years after effective date of permit and report annually on retrofitted properties	2024
Allow green infrastructure	Develop a report assessing existing local regulations to determine the feasibility of making green infrastructure practices allowable when appropriate site conditions exist	Not Applicable to Non-traditional MS4s	NA	NA
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.	Facilities Engineering Department	Complete 6 years after effective date of permit and implement recommendations of report	2024

[illegible]

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 Implementation
O&M procedures	Create written O&M procedures including all requirements contained in 2.3.7.a.ii for parks and open spaces, buildings and facilities, and vehicles and equipment	Facilities Engineering Department & Environmental Department	Complete and implement 4 years after effective date of permit	2022
Inventory all permittee-owned parks and open spaces, buildings and facilities, and vehicles and equipment	Create inventory	Environmental Department	Complete 4 years after effective date of permit and implement annually	2022
Infrastructure O&M	Establish and implement program for repair and rehabilitation of MS4 infrastructure	Facilities Engineering Department	Complete 4 years after effective date of permit	2022
Stormwater Pollution Prevention Plan (SWPPP)	Create SWPPPs for maintenance garages, transfer stations, and other waste-handling facilities	Environmental Department	Complete and implement 4 years after effective date of permit	2022
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	Facilities Engineering Department	Clean catch basins on established schedule and report number of catch basins cleaned and volume of material moved annually	2021
Street sweeping program	Sweep all streets and permittee-owned parking lots in accordance with permit conditions	Facilities Engineering Department	Sweep all streets and permittee-owned parking lots once per year in the spring	2021
Road salt use optimization program	Establish and implement a program to minimize the use of road salt	Facilities Engineering Department	Implement salt use optimization during deicing season	2021

[illegible]

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.**

[illegible]

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. In addition, if you are subject to additional requirements due to a downstream nutrient impairment (see Part 2.2.2 of the permit) select the pollutant of concern and indicate applicable waterbody IDs or write "all waterbodies" if applicable. 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.**

[illegible]

Part IV: Notes and additional information

Use the space below to indicate the part(s) of 2.2.1 and 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.

Sections 2.2.1 and 2.2.2 are not applicable to this MS4 because the MA ARNG does not discharge to impaired water bodies or to tributaries to impaired water bodies. Discharges from the regulated areas of the MA ARNG base are to water bodies (ponds or wetlands) that do not contain impairments. These water bodies either do not have outlets, or outlet to another water body without an impairment or outlet. (The South Rod and Gun Club Pond reportedly overflows to the adjacent wetlands or the Northern Rod and Gun Club Pond, both on the ARNG property.) Therefore the ARNG discharges are also not to tributaries to impaired waterbodies.

ESA Criterion C Determination:

The following is supporting documentation for our Criterion C Determination from the Natural Resources and Integrated Training Area Management (ITAM) Program Manager at the MA ARNG based on his extensive experience on this property in close collaboration with MassWildlife:

"The potentially occurring, federally-listed, species of plant and animals at Camp Edwards are limited. The only federally listed species currently occurring on-site is the northern long-eared bat. This is the only species identified through planning tools such as IPaC based on recent refinements in that system regarding occurrence information and habitats. There is no Critical Habitat at Camp Edwards or the vicinity.

Barnstable County, Massachusetts has 9 federally-listed species of plant and animal, with one plant just added to the county list in August 2018 (American chaffseed). This list is composed of 1 mammal, 3 birds, 1 reptile, 2 insects, and 2 plants.

The species may be listed into the following categories with relevant determinations.

No habitat present (determination: no effect) Piping Plover, Roseate Tern, and northeastern beach tiger beetle are all marine coastal beach and dune species with no suitable habitat present in the affected area or property. The proposed action will have no effect on these species.

Suitable habitat present on-site, but species does not occur (determination no effect) Northern red-bellied cooter occupies freshwater ponds and rivers (potentially including stormwater affected features), but does not occur south of the Cape Cod Canal. This species is only north of the canal and extensive, regular surveys are conducted in areas of suitable habitat at Camp Edwards while monitoring other species of turtle and pond ecology. The proposed action will have no effect on this species.

Suitable habitat present on-site, but species not present on site and habitat unaffected (determination: no effect) Sandplain gerardia, American chaffseed, and rusty-patched bumblebee are all known from Barnstable county and are all sandplain grassland/heathland species where they occur. Sandplain gerardia is intensively surveyed and monitored at existing locations in Sandwich and Falmouth (assisted by MAARNG Natural Resources personnel), including the introduced population at the adjacent Crane Wildlife Management area. The suitable habitat at Camp Edwards was thoroughly inventoried from 1995-1998 with annual plant surveys and habitat management occurring without observation of sandplain gerardia or other listed plants. American chaffseed and rusty-patched bumblebee have both been documented on the mid-cape (Barnstable and Harwich, respectively) with no closer observations despite intensive searching for both species. American chaffseed was the focus of many botanical surveys as it had not been documented in MA since the 1960s. As with sandplain gerardia, neither the intensive inventory, nor annual surveys and management efforts have found American chaffseed. Intensive bumblebee surveys have been completed at Camp Edwards in 2013, 2014, and 2017 with no observation of rusty-patched bumblebee. The 2017 effort specifically targeted rusty-patched bumblebee. In addition to the above information the proposed action will have no impact upon sandplain grassland or sandplain heathland habitat that could support these three species. Therefore this action will have no effect on them.

Suitable habitat exists within the project area and may be impacted (determination: may affect, not likely to adversely affect) The northern long-eared bat has been intensively studied at Camp Edwards through contracted and in-house efforts. Approximately \$800,000 has been spent between contracts and personnel time on this federally threatened and state endangered species. Captured and tracked bats have primarily been observed to be at Camp Edwards at night where we can capture them, but roost off-site. Primary roost sites have been exteriors of houses with lesser roosting in trees. NLEB activity based on captures and acoustic surveys is concentrated at a few locations, specifically the northeastern corner of Camp Edwards, the southeastern portion of Camp Edwards nearest to Snake Pond and UTES, and the Otis Ponds. This activity means that NLEB are expected within the project area and have the potential to be affected by stormwater through drinking from water surface and foraging at or near water features receiving

stormwater. However, due to procedures, regulations, and safeguards, NLEB are unlikely to be negatively impacted by stormwater. Additionally, stormwater is briefly addressed in the existing Programmatic Biological Opinion for northern long-eared bats and considered not likely to adversely affect the bat. This action may affect, but is not likely to adversely affect northern long-eared bats. Because the closest potential hibernacula is 0.7 mile away from the nearest action area and no maternity roosts are within 150 feet of an action area the streamlined consultation process is appropriate for this action. If any changes to the proposed action are considered, then consultation will be re-initiated through the appropriate process."

(UTES=Unit Training Equipment Site)

NHPA Criterion B Determination:

No federally listed historic properties/sites are present on the Army National Guard Camp Edwards Base. As historic finds (sites/structures/artifacts) are discovered, they are and will be managed as if they were registered on the National Register of Historic Places.

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:

LTC Shawn Cody

Title:

CFMO, MAARNG

Signature:

CODY.SHAWN.CONBOY.1008095260

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Date: 2018.09.28 10:12:11 -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