Year 2 Annual Report

Massachusetts Small MS4 General Permit Reporting Period: July 1, 2019-June 30, 2020

Please DO NOT attach any documents to this form. Instead, attach all requested documents to an email when submitting the form

Unless otherwise noted, all fields are required to be filled out. If a field is left blank, it will be assumed the requirement or task has not been completed. Please ONLY report on activities between July 1, 2019 and June 30, 2020 unless otherwise requested.

Part I: Contact Information

Name of Municipality or Organization: Veterans Affa	airs Boston Healthcare System Jamaica Plain Campus
EPA NPDES Permit Number: MAR042010	
Primary MS4 Program Manager Contact Informa	ation
Name: John Hughes	Title: GEMS Program Manager
Street Address Line 1: 150 South Huntington Avenue	>
Street Address Line 2: N/A	
City: Jamaica Plain State: MA	Zip Code: 02130
Email: john.hughes5@va.gov	Phone Number: (857) 203-6522
Stormwater Management Program (SWMP) Infor	·mation
SWMP Location (web address): https://www.boston.	va.gov/about/index.asp
Date SWMP was Last Updated: Aug 20, 2020	
If the SWMP is not available on the web please provi	ide the physical address:
VABHS GEMS office 150 South Huntington Avenue management documents on external websites.	e, Floor 7C-48, Jamaica Plain.VA does not post

Part II: Self-Assessment

First, in the box below, select the impairment(s) and/or TMDL(s) that are applicable to your MS4. Make sure you are referring to the most recent EPA approved Section 303(d) Impaired Waters List which can be found here: https://www.epa.gov/tmdl/region-1-impaired-waters-and-303d-lists-state

Impairment((<u>s)</u>			
	☐ Bacteria/Pathogens	☐ Chloride	☐ Nitrogen	
	⊠ Solids/ Oil/ Grease (Hy	/drocarbons)/ Metal	ls	
TMDL(s)				
In State:	☐ Assabet River Phospho	orus 🗵 Bact	eria and Pathogen	☐ Cape Cod Nitrogen
	☐ Charles River Watersh	ed Phosphorus	☐ Lake and Pone	d Phosphorus
Out of State:	☐ Bacteria/Pathogens	☐ Metals	☐ Nitrogen	Phosphorus
			C	lear Impairments and TMDLs
Year 2 Requi	dditional information will b rements leted Phase I of system map		sections.	
	oped a written catchment in		re and added the proc	cedure to the SWMP
_ Develo	•	equire the submissi	on of as-built drawin	gs and ensure the long term
Enclos	sed or covered storage piles	of salt or piles cont	aining salt used for d	leicing or other purposes
	oped written operations and es, and vehicles and equipm			
	oped an inventory of all perings and facilities, and vehicle		•	1 1 .
⊠ Compl	leted a written program for l	MS4 infrastructure	maintenance to reduc	ce the discharge of pollutants
operate	oped written SWPPPs, inclued facilities: maintenance gas where pollutants are expo	arages, public work		ng permittee owned or ons, and other waste handling

Optional: If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above year 2 requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:

The written catchment procedure and written procedure to require the submission of as-built drawings and ensure long term operation and maintenance of stormwater treatment structures was developed prior to Permit Year 2 and will be incorporated into the SWMP during Permit Year 3. The VABHS Jamaica Plain is entirely

discharges to a water body impaired for bacteria

Appendix H and F for more information)

owned by the government and there is an existing inventory of all facilities located on campus. Language will be added to the SWMP specifying which facilities fall under one of the three categories listed above in Permit Year 3. A consultant has been contracted using upcoming fiscal year funds to evaluate the need for a SWPPP at this campus.

Annual Requirements
Provided an opportunity for public participation in review and implementation of SWMP and complied
with State Public Notice requirements
⊠ Kept records relating to the permit available for 5 years and made available to the public
The SSO inventory has been updated, including the status of mitigation and corrective measures implemented
 This is not applicable because we do not have sanitary sewer
 This is not applicable because we did not find any new SSOs
 The updated SSO inventory is attached to the email submission
○ The updated SSO inventory can be found at the following website:
Properly stored and disposed of catch basin cleanings and street sweepings so they did not discharge to receiving waters
Provided training to employees involved in IDDE program within the reporting period
□ Updated outfall and interconnection inventory and priority ranking as needed
Optional: If you would like to describe progress made on any incomplete requirements listed above, provide any additional information, and/or if any of the above annual requirements could not be completed due to the impacts of COVID-19, please identify the requirement that could not be completed, any actions taken to attempt to complete the requirement, and reason the requirement could not be completed below:
N/A
Bacteria/ Pathogens (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable Annual Requirements
Public Education and Outreach*
Annual message was distributed encouraging the proper management of pet waste, including noting any existing ordinances where appropriate
Permittee or its agents disseminated educational material to dog owners at the time of issuance or renewal of dog license, or other appropriate time
Provided information to owners of septic systems about proper maintenance in any catchment that

* Public education messages can be combined with other public education requirements as applicable (see

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

The VABHS Jamaica Plain does not issue dog licenses and no septic systems are located on the campus, so these educational messaging activities are not applicable.

Phosphorus (Combination of Impaired Waters Requirements and TMDL Requirements as Applicable)

Annual Requirements

Public Education and Outreach*	
Distributed an annual message in the spring (April/May) encouraging the proper use and disposal of grass clippings and encouraging the proper use of slow-release and phosphorus-free fertilizers	
Distributed an annual message in the summer (June/July) encouraging the proper management of pet waste, including noting any existing ordinances where appropriate	
Distributed an annual message in the fall (August/September/October) encouraging the proper disposa of leaf litter	ıl
* Public education messages can be combined with other public education requirements as applicable (so Appendix H and F for more information)	ee
Good Housekeeping and Pollution Prevention for Permittee Owned Operations	
Increased street sweeping frequency of all municipal owned streets and parking lots subject to Permit part 2.3.7.a.iii.(c) to a minimum of two times per year (spring and fall)	
Potential structural BMPs	
Any structural BMPs already existing or installed in the regulated area by the permittee or its agents was tracked and the phosphorus removal by the BMP was estimated consistent with Attachment 3 to Appendix F. The BMP type, total area treated by the BMP, the design storage volume of the BMP and the estimated phosphorus removed in mass per year by the BMP were documented.	l
○ The BMP information is attached to the email submission	
○ The BMP information can be found at the following website:	

Optional: If you would like to describe progress made on any incomplete requirements listed above or provide any additional details, please use the box below:

The VABHS Jamaica Plain is subject to federal policies and procedures. As such, no legal analysis was conducted as part of the Phase I Phosphorus Control Plan requirements; however, existing federal policies and procedures such as Section 438 of the Energy Independence and Security Act are implemented at the campus that mandate the use of stormwater treatment structures on projects >5,000 square feet to mitigate the affects of stormwater pollution. Anticipated stormwater treatment structure costs to applicable projects are built in the project budget as a function of implementation of this mandate.

Solids, Oil and Grease (Hydrocarbons), or Metals

Annual Requirements

Good Housekeeping and Pollution Prevention for Permittee Owned Operations

Increased street sweeping frequency of all municipal owned streets and parking lots to a schedule that targets areas with potential for high pollutant loads

Prioritized inspection and maintenance for catch basins to ensure that no sump shall be more than 50 percent full; Cleaned catch basins more frequently if inspection and maintenance activities indicated excessive sediment or debris loadings
Optional: If you would like to describe progress made on any incomplete requirements listed above or provid any additional details, please use the box below:
Parking Lots and Parking Garage are swept by contractor twice a year.
Optional: Use the box below to provide any additional information you would like to share as part of your self-assessment:
N/A

Part III: Receiving Waters/Impaired Waters/TMDL

Have yo submitte	u made any changes to your lists of receiving waters, outfalls, or impairments since the NOI was d?
	○ Yes
	No
If yes, o	escribe below, including any relevant impairments or TMDLs:
N/A	

Part IV: Minimum Control Measures

Please fill out all of the metrics below. If applicable, include in the description who completed the task if completed by a third party.

MCM1: Public Education
Number of educational messages completed during this reporting period: 2
Below, report on the educational messages completed during this reporting period. For the measurable goal(s) please describe the method/measures used to assess the overall effectiveness of the educational program. BMP: Bacteria, Pathogen public education and outreach Message Description and Distribution Method:
Annual message encouraging and education on the proper management of pet waste; Dissemination of
educational materials to dog owners. Message was included in the GEMS quarterly newsletter disseminated to VABHS Jamaica Plain employees.
Targeted Audience: Employees (Grounds, Engineering, Contractors, Police)
Responsible Department/Parties: Engineering/Grounds/Police
Measurable Goal(s):
Dissemination of educational messaging related to applicable bacteria/pathogen impacts within permit time frames and frequencies. No visible pet waste present on grounds or within MS4 infrastructure.
Message Date(s): August 2019 and March 2020
Message Completed for: Appendix F Requirements ☐ Appendix H Requirements ☐
Was this message different than what was proposed in your NOI? Yes ○ No •
If yes, describe why the change was made:
BMP:Phosphorus public education and outreach
Message Description and Distribution Method:
The GEMS Program Manager educates Grounds staff on the importance of the timely removal and disposal
leaf litter on campus grounds prior to the start of fall grounds maintenance activities. VABHS Jamaica Plain does not apply fertilizer due to limited landscaping present on campus.
Targeted Audience: Employees (Grounds)
Responsible Department/Parties: Grounds
Measurable Goal(s):
Disseminate educational messaging related to phosphorus impacts within permit time frames and frequencies.

Page 8	
MS4 infrastructure.	
target audience	
VABHS Jamaica	
application. VABHS	
mwater Management	
iliwater Management	
1	
nvolved in activities s, employee	
state, and federal	
2	
his reporting period:	
n regarding	
ay event with	
, but it was canceled	

Veterans Affairs Boston Healthcare System Jamaica Plain Campus Timely removal of leaf litter from grounds and no excessive leaf litter observed entering Message Date(s): Leaf litter management August 2019 and March 2020 Message Completed for: Appendix F Requirements ⊠ Appendix H Requirements Was this message different than what was proposed in your NOI? Yes

No If yes, describe why the change was made: The VABHS Jamaica Plain revised educational messaging to more effectively reach the directly responsible for maintaining the campus grounds. As a non-traditional MS4, the V Plain manages their grounds through use of internal staff, with the exception of fertilizer Jamaica Plain does not apply fertilizer due to limited landscaping present on campus. Add an Educational Message **MCM2: Public Participation** Describe the opportunity provided for public involvement in the development of the Stori Program (SWMP) during this reporting period: SWMP development included data provision and feedback from various VA personnel in that relate to MS4 operations and included discussions related to construction inspections engagement during training sessions, conversations with leadership, and review of local, regulatory initiatives and environmental conditions. Was this opportunity different than what was proposed in your NOI? Yes O No O Describe any other public involvement or participation opportunities conducted during t The VA BHS Jamaica Plain has reached out to the Boston Water and Sewer Commission information sharing of screenings/samplings conducted on interconnections. An Earth Da associated clean-up of the VA BHS Jamaica Plain grounds was scheduled for April 2020 due to the COVID-19 pandemic.

MCM3: Illicit Discharge Detection and Elimination (IDDE)

Sanitary Sewer Overflows (SSOs)

Check off the box below if the statement is true.

This SSO section is NOT applicable because we DO NOT have sanitary sewer

Below, report on the number of SSOs identified in the MS4 system and removed during this reporting period.
Number of SSOs identified: 0
Number of SSOs removed: 0
MS4 System Mapping Below, check all that apply. The following elements of the Phase I map have been completed:
Optional: Describe any additional progress you made on your map during this reporting period or provide additional status information regarding your map:
The VA BHS Jamaica Plain updated the existing MS4 map with information obtained during surveys conducted in 2015 and construction affecting MS4 configuration that has recently or is currently occurring on campus. Updates include incorporation of as-builts related to MS4 construction into the MS4 map as well as outfall/interconnection information, catchment delineations, outfall/interconnection spatial location, pipes, manholes, catch basins (including oil and water separators), sanitary sewer system, storm sewer size and material, topography and orthophotography. No open channel conveyances are located on the campus.
Screening of Outfalls/Interconnections If conducted, please submit any outfall monitoring results from this reporting period. Outfall monitoring results should include the date, outfall/interconnection identifier, location, weather conditions at time of sampling, precipitation in previous 48 hours, field screening parameter results, and results from all analyses.
 The outfall screening data is attached to the email submission
The outfall screening data can be found at the following website:
Interconnection screening conducted on June 16 & 18, 2020. All interconnections were screened and observed to be dry.
Below, report on the number of outfalls/interconnections screened during this reporting period. Number of outfalls screened: 5
Catchment Investigations If conducted, please submit all data collected during this reporting period as part of the dry and wet weather investigations. Also include the presence or absence of System Vulnerability Factors for each catchment. The catchment investigation data is attached to the email submission The catchment investigation data can be found at the following website:
Catchment investigations conducted between June 16 &18, 2020. All catchments were investigated during this period.

Below, report on the number of catchment investigations con	ipleted during this reporting period.
Number of catchment investigations complete	ed this reporting period: 5
Below, report on the percent of catchments investigated to do	ate.
Percent of total catchments investigated: 71	
Optional: Provide any additional information for clarity rega	arding the catchment investigations below:
The VABHS Jamaica Plain utilized SDE, Inc. to conduct intinvestigations of the five interconnections and their related conterconnections were observed to be dry. No illicit discharge work. Due to construction of a new research facility, the rem DMH-9 were under soil piles & inside the construction zone.	eatchments located on campus. All five ges were identified during completion of this naining two interconnections IC-7/DMH-19; IC-1/
IDDE Progress	
If illicit discharges were found, please submit a document de period, and cumulative to date, including location source; de date of discovery; and date of elimination, mitigation, or enfoschedule of removal. The illicit discharge removal report is attached.	escription of the discharge; method of discovery; orcement OR planned corrective measures and
 The illicit discharge removal report can be for 	und at the following website:
N/A	
Below, report on the number of illicit discharges identified a removed during this reporting period.	nd removed, along with the volume of sewage
Number of illicit discharges identified: 0	
Number of illicit discharges removed: 0	
Estimated volume of sewage removed: 0	gallons/day
Below, report on the total number of illicit discharges identify the number of illicit discharges identified and removed since	-
Total number of illicit discharges identified:	0
Total number of illicit discharges removed:	0
Optional: Provide any additional information for clarity regardlened to be removed below:	arding illicit discharges identified, removed, or
No flow was observed at any of the interconnections.	

Employee Training

Describe the frequency and type of employee training conducted **during the reporting period**:

All new employees receive training during New Employee Orientation. Employees receive general awareness training during department meetings. In-person annual trainings including storm water management to EMS (cleaners) 11/2019 & Grounds staff June 2020. In July 2019, staff were trained in the IDDE program manual contents and how to conduct field screening/sampling of catchments.

MCM4: Construction Site Stormwater Runoff Control

Below, report on the construction site plan reviews, inspections, and enforcement actions completed during this reporting period.

Number of site plan reviews comple	eted: 4
Number of inspections completed:	60
Number of enforcement actions tak	en: 0

Optional: Enter any additional information relevant to construction site plan reviews, inspections, and enforcement actions:

The VABHS Jamaica Plain performs site plan reviews, inspections, and enforcement actions (if required) on all construction sites >5,000 square feet, which is more stringent than the permit requirement. Minor infractions observed during site inspections were conveyed verbally to the contractor and resolved within a 24-hour period of their discovery.

MCM5: Post-Construction Stormwater Management in New Development and Redevelopment

Ordinance or Regulatory Mechanism

Below, select the option that describes your ordinance or regulatory mechanism progress.

- Bylaw, ordinance, or regulations are updated and adopted consistent with permit requirements
- Bylaw, ordinance, or regulations are updated consistent with permit requirements but are not yet adopted
- O Bylaw, ordinance, or regulations have not been updated or adopted

As-built Drawings

Describe the measures the MS4 has utilized to require the submission of as-built drawings and ensure long term operation and maintenance of completed construction sites:

The VA has specifications in place that require the submittal of as-built plans within 1 year of the completion of the project. Long term O&M plan submittal is a contractually mandated requirement of contractors.

Street Design and Parking Lots Report

Describe the status of the street design and parking lots assessment due in year 4 of the permit term, including any planned or completed changes to local regulations and guidelines:

The VA BHS Jamaica Plain is currently reviewing the requirements of this assessment as it pertains to this facility. The VABHS JP campus has proactively implemented phosphorus controls.

Green Infrastructure Report

Describe the status of the green infrastructure report due in year 4 of the permit term, including the findings and progress towards making the practice allowable:

The VA BHS Jamaica Plain is currently reviewing the requirements of this report and assessing all construction projects scheduled for design over this time period for compliance with this requirement. Although this requirement is not applicable to non-traditional MS4s, this facility is considering practices such as green roofs, rain gardens, etc. to potentially be implemented as part of Section 438 EISA requirements in new/redevelopment areas.

Retrofit Properties Inventory

Describe the status of the inventory, due in year 4 of the permit term, of permittee-owned properties that could be modified or retrofitted with BMPs to mitigate impervious areas and report on any properties that have been modified or retrofitted:

This inventory is in progress.			

MCM6: Good Housekeeping

Catch Basin Cleaning

Below, report on the number of catch basins inspected and cleaned, along with the total volume of material removed from the catch basins during this reporting period.

Number of catch basins inspected: 56	
Number of catch basins cleaned: 11	
Total volume or mass of material removed from all catch basins: 3	cubic yards

Below, report on the total number of catch basins in the MS4 system.

Total number of catch basins: 57

If applicable:

Report on the actions taken if a catch basin sump is more than 50% full during two consecutive routine inspections/cleaning events: No catch basin sumps were observed to be more than 50% full during two consecutive routine inspection/cleaning events.		
Report on street sweeping completed during this repor	ting period using one of the three metrics below.	
• Number of miles cleaned: 0.5		
O Volume of material removed:	[Select Units]	
Weight of material removed:	[Select Units]	
O&M Procedures and Inventory of Permittee-Own Below, check all that apply. The following permittee-owned properties have been in ⊠ Parks and open spaces		
☑ Buildings and facilities☑ Vehicles and equipment		
The following O&M procedures for permittee-owned p	properties have been completed:	
Stormwater Pollution Prevention Plan (SWPPP) Below, report on the number of site inspections for factoring period.		

Number of site inspections completed: 0

Describe any corrective actions taken at a facility with a SWPPP:

The VABHS Jamaica Plain has contracted with a consultant during Permit Year 3 to determine the need for a SWPPP at this campus. If a SWPPP is required, it will be drafted and implemented.

Additional Information

Monitoring or Study Results

Results from any other stormwater or receiving water quality monitoring or studies conducted during the
reporting period not otherwise mentioned above, where the data is being used to inform permit compliance or
permit effectiveness must be attached.

permit effective	ness must be attached.
•	Not applicable
\circ	The results from additional reports or studies are attached to the email submission
\circ	The results from additional reports or studies can be found at the following website(s):
	N/A
	ing or studies were conducted on your behalf or if monitoring or studies conducted by other ported to you, a brief description of the type of information gathered or received shall be v:
N/A	
Additional Info	ormation
-	r any additional information relevant to your stormwater management program implementation rting period. Include any BMP modifications made by the MS4 if not already discussed above:
N/A	
COVID-19 Im	<u>pacts</u>
please identify	y of the above year 2 requirements could not be completed due to the impacts of COVID-19, the requirement that could not be completed, any actions taken to attempt to complete the nd reason the requirement could not be completed below:
N/A	

Activities Planned for Next Reporting Period

Please confirm that your SWMP has been, or will be, updated to comply with all applicable permit requirements including but not limited to the year 3 requirements summarized below. (Note: impaired waters and TMDL requirements are not listed below)

Yes, I agree ⊠

- Inspect all outfalls/ interconnections (excluding Problem and Excluded outfalls) for the presence of dry weather flow
- Complete follow-up ranking as dry weather screening becomes available

Annual Requirements

- Annual report submitted and available to the public
- Annual opportunity for public participation in review and implementation of SWMP
- Keep records relating to the permit available for 5 years and make available to the public
- Properly store and dispose of catch basin cleanings and street sweepings so they do not discharge to receiving waters
- Annual training to employees involved in IDDE program
- Update inventory of all known locations where SSOs have discharged to the MS4
- Continue public education and outreach program
- Update outfall and interconnection inventory and priority ranking and include data collected in connection with the dry weather screening and other relevant inspections conducted
- Implement IDDE program
- Review site plans of construction sites as part of the construction stormwater runoff control program
- Conduct site inspection of construction sites as necessary
- Inspect and maintain stormwater treatment structures
- Log catch basins cleaned or inspected
- Sweep all uncurbed streets at least annually
- Continue investigations of catchments associated with Problem Outfalls
- Review inventory of all permittee owned facilities in the categories of parks and open space, buildings and facilities, and vehicles and equipment; update if necessary

Provide any additional details on activities planned for permit year 3 below:

The VABHS Jamaica Plain will be working on a preliminary phosphorus control plan containing the required elements through Permit Year 3. As part of this work, the VABHS Jamaica Plain will coordinate with Boston Water and Sewer Commission to share relevant information during preparation of the plan that may assist BWSC with meeting their own phosphorus reduction goals.

Part V: Certification of Small MS4 Annual Report 2020

40 CFR 144.32(d) 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: Jeffrey P. Krockta, P.E. Title: Chief, Engineering Service

Signature: Jeffrey P. Digitally signed by Jeffrey P. Krockta 222401 Date: 2020.09.28 09:15:49-04'00'

[Signatory may be a duly authorized representative]

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

Annual Report Submission

Please submit the form electronically via email to both EPA and MassDEP by clicking on one of the links below or using the email addresses listed below. Please ensure that all required attachments are included in the email and not attached to this PDF.

EPA: stormwater.reports@epa.gov MassDEP: laura.schifman@mass.gov

Paper Signature:

If you did not sign electronically above, you can print the signature page by clicking the button below.

Print Signature Page

Optional: If you did not sign electronically above, you may lock the form by clicking the "Lock Form" button below which will prompt you to save the locked version of the form. Save this locked version under a new file name.

Lock Form