RHODE ISLAND DEPARTMENT OF
ENVIRONMENTAL MANAGEMENT
Office of Water Resources

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RIPDES SMALL MS4 ANNUAL REPORT

GENERAL INFORMATION PAGE

RIPDES PERMIT **#RIR0400 0025**

REPORTING PERIOD: ☒ **YEAR 16**

Jan 2019-Dec 2019

OPERATOR OF MS4

Name: Town of Jamestown			
Mailing Address: 93 Narragansett Avenue			
City: Jamestown	State: RI	Zip: 02835	Phone: (401)423-7193
Contact Person: Jean Lambert, P.E.	Title: Engineering/GIS Coordinator		
	Email: jlambert@jamestownri.net		

Legal status (circle one):
PRI - Private | PUB - Public | BPP - Public/Private | STA - State | FED – Federal
Other (please specify):

OWNER OF MS4 (if different from OPERATOR)

Name: same			
Mailing Address:			
City:	State:	Zip:	Phone: ( )
Contact Person:	Title:		
	Email:		

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under the 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.

Print Name Jean Lambert, P.E.

Print Title Engineering/GIS Coordinator

Signature Jean Lambert Date 2/19/2020

MINIMUM CONTROL MEASURE #1:
PUBLIC EDUCATION AND OUTREACH (Part IV.B.1 General Permit)

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities, topics addressed, audiences and pollutants targeted. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for choosing the education activity to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (*) if this person/entity is different from last year.)

Responsible Party Contact Name & Title: Jean Lambert, Engineering/GIS Coordinator

Phone: (401)423-7193 **Email:** jlambert@jamestownri.net

IV.B.1.b.1	Use the space below to provide a General Summary of activities implemented to educate your community on how to reduce stormwater pollution. For TMDL affected areas, with stormwater associated pollutants of concern, indicate rationale for choosing the education activity. List materials used for public education and topics addressed. Summarize implementation status and discuss if the activity is appropriate and effective.

The Town believes that education is effective in motivating change in the community. The Town will continue to distribute a pet waste management brochure with pet license renewals. This effort is reflected in the elementary school with students creating and displaying posters relating clean water and pet waste management. A copy of the brochure is included in the Appendix of this report.

The Town also collaborated with Save the Bay and the community to promote the marking of catch basins with “Drains to Bay” markers.

The Town annually implements water conservation requirements to all households connected to the municipal water supply. These requirements are mailed to all households connected to the municipal water and are advertised in the local paper for all residents to review.

The Town included a brochure to all users connected to the municipal water system regarding the potential dangers of cross contamination between sump pump discharges, the municipal stormwater system and the municipal water system. On-site inspections of each property commenced in 2019 and will continue in 2020.

IV.B.1.b.2	Use the space below to provide a general summary of how the public education program was used to educate the community on how to become involved in the municipal or statewide stormwater program. Describe partnerships with governmental and non-governmental agencies used to involve your community.

The Town collaborated with Save the Bay and the community to promote the marking of catch basins with “Drains to Bay” markers. This effort is being expanded in 2020 with the local art center arranging a program to allow local youth to participate in a storm drain painting effort.

The Town continues to work with the Conanicut Island Land Trust, the Jamestown Conservation Commission and the Jamestown Shores Association through the Jamestown Shores Tax Lot Management Program. This program was developed to encourage cooperation to protect undeveloped lots in the Jamestown Shores. The undeveloped lots are important in that they reduce storm water runoff, increase groundwater recharge, protect groundwater resources and protect freshwater wetlands. To date, a total of 108 lots have been protected through ownership and easements with 22 lots added in 2019. An additional 11 lots are being considered for easement protection.

Check all topics that were included in the Public Education and Outreach program during this reporting period. For each of the topics selected, provide the target pollutant (e.g. construction sites, total suspended solids):

Topic	**Target Pollutant(s)**
☒ Construction Sites	Good housekeeping, total suspended solids
☐ Pesticide and Fertilizer Application	
☐ General Stormwater Management Information	
☒ Pet Waste Management	Pet waste, bacteria
☐ Household Hazardous Waste Disposal	
☐ Recycling	
☒ Illicit Discharge Detection and Elimination	Bacteria, cross contamination
☐ Riparian Corridor Protection/Restoration	
☐ Infrastructure Maintenance	
☐ Trash Management	
☐ Smart Growth	
☐ Vehicle Washing	
☒ Storm Drain Marking	Solids, bacteria, oil
☒ Water Conservation	Surface and groundwater recharge
☐ Green Infrastructure/Better Site Design/LID	
☐ Wetland Protection	
☐ Other:	
☐ None	

Specific audiences targeted during this reporting period:

- ☒ Public Employees
- ☒ Residential
- ☐ Businesses
- ☐ Restaurants
- ☐ Other:
- ☐ Contractors
- ☐ Developers
- ☒ General Public
- ☐ Industries
- ☐ Agricultural

Additional Measurable Goals and Activities: Please list all stormwater training attended by your staff during the 2019 calendar year and list the name(s) and municipal position of all staff who attended the training.

TRAININGS:

RIFMA, 2019 Annual Conference, April 2019
ACOE, Flood Mitigation Workshop, June 14, 2019
RIDOT/RIDEM, Credit for Going Green: Meeting WQ Standards with Buffers, June 24, 2019
RIDEM, Getting That Checklist Done: A Workshop to Help with the New LID Municipal Self-Assessment, September 11, 2019
RI Infrastructure Summit, September 26, 2019
Erosion & Sediment Control Field Day, October 3, 2019
RI Green Infrastructure Coalition, 2019 Stormwater Innovation Expo, October 30, 2019
RIDEM, Implementing Stormwater Solutions, December 12, 2019
Attending name of staff and title: __Jean Lambert, Engineering/GIS Coordinator_____

RI General Construction Stormwater Awareness Training, November 2019
Attending name of staff and title*:

- Jean Lambert, Engineering/GIS Coordinator
- Michael Gray, Director of Public Works
- Chris Costa, Building Official
- Steve Bonner, Foreman
- Kevin Deacon, Highway Supervisor

(*A copy of the sign-in sheet is enclosed with this report.)

CI213: Qualified Compliance Inspector of Stormwater (QCIS) – Rhode Island
Attending name of staff and title: __Chris Costa, Building Official_____

MINIMUM CONTROL MEASURE #2:
PUBLIC INVOLVEMENT/PARTICIPATION (Part IV.B.2 General Permit)

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as types of activities and audiences/groups engaged. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (*) if this person/entity is different from last year.)

Responsible Party Contact Name & Title: Jean Lambert Engineering/GIS Coordinator

Phone: (401)423-7193 **Email:** jlambert@jamestownri.net

IV.B.2.b.2.ii	Use the space below to describe audiences targeted for the public involvement minimum measure, include a description of the groups engaged, and activities implemented and if a particular pollutant(s) was targeted. If addressing TMDL requirements indicate how the audience(s) and/or activity address the pollutant(s) of concern. Name of person(s) and/or parties responsible for implementation of activities identified. Assess the effectiveness of BMP and measurable goal.

- The Jamestown Youth Litter Corp participated in shoreline cleanup and trash pickup on public properties. They are effective at removing floatables.
- Pet owners were targeted with mailings for pet waste management as part of the annual registration renewal.
- The Town of Jamestown, in cooperation with the Conanicut Island Land Trust, Jamestown Conservation Commission and Jamestown Shores Association, continued the Jamestown Shores Tax Lot Management Plan program aimed at protecting undeveloped lots in the Jamestown Shores area. The program seeks to reduce runoff and increase groundwater recharge.
- Staff participated in the Jamestown School 4th grade education program on the connection between stormwater and drinking water on the island. In addition, 4th grade classes investigated the connection between pet waste and bacterial contamination in adjacent waters.

Opportunities provided for public participation in implementation, development, evaluation, and improvement of the Stormwater Management Program Plan (SWMPP) during this reporting period. Check all that apply:

- ☒ Cleanup Events
- ☐ Comments on SWMPP Received
- ☐ Community Hotlines
- ☒ Community Meetings
- ☐ Other (describe)
- ☒ Storm Drain Markings
- ☐ Stakeholder Meetings
- ☐ Volunteer Monitoring
- ☐ Plantings

Additional Measurable Goals and Activities:

- The Jamestown Department of Public Works, Conservation Commission and the general public participate in a stream and shoreline cleanup as an Earth Day activity.
- The Town funds a youth litter corps which includes educational, recycling and litter pickup components.
- Save The Bay conducts an annual beach cleanup in association with the Swim Across the Bay Event.
- The Town Recreation Department provides and maintains trash barrels at public recreation areas and shoreline access points.
- The Town Recreation Department continues to fund and maintain 3 pet waste stations in Town.
- The Town collaborated with Save the Bay and the community to promote the marking of catch basins with “Drains to Bay” markers. This effort is being expanded in 2020 with the local art center arranging a program to allow local youth to participate in a storm drain painting effort.

SECTION II. Public Notice Information (Parts IV.G.2.h and IV.G.2.i) *Note: attach copy of public notice

Was the availability of this Annual Report and the Stormwater Management Program Plan (SWMPP) announced via public notice? ☒ YES ☐ NO	If YES, Date of Public Notice: February 27, 2020 (copy included in attachments)
How was public notified: ☐ List-Serve (Enter # of names in List: _____) ☐ TV/Radio Notices ☒ Website ☒ Newspaper Advertising ☐ Town Hall posting ☐ Other: Enter Web Page URL: __http://jamestownri.gov/town-departments/stormwater-management_____	
Was public meeting held? ☐ YES ☒ NO Date:	Where:
Summary of public comments received: No comments were received	
Planned responses or changes to the program: There are no planned responses or changes proposed for the program.	

MINIMUM CONTROL MEASURE #3:
ILLICIT DISCHARGE DETECTION AND ELIMINATION (Part IV.B.3 General Permit)

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS

Include information relevant to the implementation of each measurable goal, such as activities implemented (when reporting tracked and eliminated illicit discharges, please explain the rationale for targeting the illicit discharge) to comply with on-going requirements, and illicit discharge public education activities, audiences and pollutants targeted. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (*) if this person/entity is different from last year.)

Responsible Party Contact Name & Title: Jean Lambert Engineering/GIS Coordinator

Phone: (401)423-7193 **Email:** jlambert@jamestownri.net

Has *this person* received training on Illicit Discharge Detection and Elimination (IDDE)? Yes

If yes, when and where? Ms. Lambert is a registered professional engineer and has been trained through a combination of previous work experience and on the job training.

If no, who *is* trained on IDDE? Public works staff are also trained to detect IDDE.

IV.B.3.b.1:	If the outfall map was not completed, use the space below to indicate reasons why, proposed schedule for completion of requirement and person(s)/ Department responsible for completion. (The Department recommends electronic submission of updated EXCEL Tables if this information has been amended.) **Number of Outfalls Mapped within regulated area:** 125 **Percent Complete:** 100 **If 100% Complete, Provide Date of Completion:** 2012

An outfall map was first created in 2006 and submitted with the 2006 annual report. This map was revised during the 2007 dry weather surveys and included with the 2007 annual report. The electronic submission of the outfall location in excel format was included with the 2008 annual report. Updated excel tables are included with this annual report identifying the 88 outfalls to Narragansett Bay and the 37 outfalls that discharge to upland locations in Jamestown.

IV.B.3.b.2	Indicate if your municipality chose to implement the tagging of outfalls activity under the IDDE minimum measure, activities and actions undertaken under the 2019 calendar year.

The Town has chosen to GPS the outfalls in place of outfall tagging. The outfalls have been located using a Trimble GeoXT GPS receiver.

IV.B.3.b.3	Use the space below to provide a summary of the implementation of recording of system additional elements (catch basins, manholes, and/or pipes). Indicate if the activity was implemented as a result of the tracing of illicit discharges, new MS4 construction projects, and inspection of catch basins required under the IDDE and Pollution Prevention and Good Housekeeping Minimum Measures, and/or as a result of TMDL related requirements and/or investigations. Assess effectiveness of the program minimizing water quality impacts.

The Town began extensive mapping of the stormwater and wastewater infrastructure in 2011.Student interns have been working with the Town during the summer seasons to assist with mapping, sampling and inspections of stormwater infrastructure. Town catch basins have been managed in GIS. In addition to the catch basins and outfalls, a GIS layer for storm water collection piping has been created to illustrate direction of flow. In 2020, the Town intends to review existing mapping versus field conditions to ensure that the complete system mapped.

This mapping effort has been very effective at identifying potential infrastructure issues and allowing the DPW to prioritize O&M efforts.

IV.B.3.b.4	Indicate if the IDDE ordinance was **not** developed, adopted, and submitted to RIDEM, explain reasons why, submit proposed schedule for completion and identify person(s) / Department and/or parties responsible for the completion of this requirement. **Date of Adoption:** 12/06/2005 If the Ordinance was amended in 2019, please indicate why changes were necessary.

The IDDE Ordinance was adopted on 12/06/2005 and submitted to RIDEM with a signed letter from the Town Solicitor. No amendments were made to the IDE Ordinance in 2019.

IV.B.3.b.5.ii, iii, iv, & v	Use the space below to provide a summary of the implementation of procedures for receipt and consideration of complaints, tracing the source of an illicit discharge, removing the source of the illicit discharge and program evaluation and assessment as a result of removing sources of illicit discharges. Identify person(s) / Department and/or parties responsible for the implementation of this requirement.

- DPW employees respond to all complaints, inspect the area and notify emergency response if needed. A record of all illicit discharges reported is kept by the public works department.
- The Town is in the process of developing an online complaint tracking system through the Town website. The system has not yet been enacted.

IV.B.3.b.5.vi	Use the space below to provide summary of implementation of catch basin and manhole inspections for illicit connections and non-stormwater discharges. If the required measurable goal of inspecting all catch basins and manholes for this purpose was not accomplished, please indicate reasons why, the proposed schedule of completion and identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement. The operator must keep records of all inspections and corrective actions required and completed. **Number of Catch Basins and Manholes Inspected for illicit connections/IDDE:** 940 **Percent Complete:** 100 % **Date of Completion:** 2007

Paper copies of all inspections are kept in the Public Works Department at the Town Hall. RIDOT completed inspections of structures in the Southwest Avenue drainage network in 2018.

IV.B.3.b.5.vii	If dry weather surveys including field screening for non-stormwater flows and field tests of selected parameters and bacteria were not completed, indicate reasons why, proposed schedule for the completion of this measurable goal and person(s) / Department and/or parties for the completion of this requirement. Evaluate effectiveness of the implementation of this requirement. **The results of the dry weather survey investigations must be submitted to RIDEM electronically, if not already submitted or if revised since 2009, in the RIDEM-provided EXCEL Tables and should include visual observations for all outfalls during both the high and low water table timeframes, as well as sample results for those outfalls with flow. The EXCEL Tables must include a report of all outfalls and indicate the presence or absence of dry weather discharges.** **Number of Outfalls Surveyed Jan-Apr:** 125 **Number of Outfalls Surveyed Jul-Oct:** 125 **Percent Complete:** 100 % **Date of Completion:** 2012

The Town completed two dry weather surveys in 2007 as required by permit. In addition, dry weather surveys have been performed annually since 2007. The RIDEM provided Excel table is updated annually and is included electronically with this report.

IV.B.3.b.7	Use the space below to provide a description of efforts and actions taken as a result of for coordinating with other physically interconnected MS4s, including State and federal owned or operated MS4s, when illicit discharges were detected or reported. Identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement.

- In 2012, twenty-four (24) RIDOT catch basins were identified as receiving flow from the Jamestown municipal drainage system. The Town intends to continue sampling RIDOT outfalls where a Town interconnection is suspected. The list of the catch basin ID numbers is included as a report attachment.
- The Town of Jamestown and RIDOT are responsible for implementation of this requirement.

IV.B.3.b.8	Use the space below to provide a description of efforts and actions taken for the referral to RIDEM of non-stormwater discharges not authorized in accordance to Part I.B.3 of this permit or another appropriate RIPDES permit, which the operator has deemed appropriate to continue discharging to the MS4, for consideration of an appropriate permit. Identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement.

- There were three (3) illicit discharges identified and referred to RIDEM and RIDOT in 2011. This coordination was effective as the Town has a good working relationship with RIDOT and RIDEM personnel.
- An inspection of a new construction project located a pipe connected to a Town CB. The Building Official notified the owner and the pipe was removed. No illicit discharges were identified in 2019.

IV.B.3.b.9	Use the space below to provide a description of efforts and actions taken to inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste, as well as allowable non-stormwater discharges identified as significant contributors of pollutants. Include a description on how this activity was coordinated with the public education minimum measure and the pollution prevention/good housekeeping minimum measure programs. Identify person(s) / Department and/or parties responsible for the implementation of this requirement. Evaluate effectiveness of the implementation of this requirement.

The Public Works Director is responsible for implementation of this requirement. The Highway Department Maintenance Garage properly stores and disposes of materials generated. The Town has received a template from the URI Cooperative Extension; this template has been populated with information specific to Jamestown.

Additional Measurable Goals and Activities:

- The Onsite Wastewater Management Program has been very effective in the proper operation and maintenance of approximately 1800 septic systems in Town.
- The Town set aside $30,000 in capital to investigate the sources of fecal coliform to Sheffield Cove with a goal of mitigating the potential source and petitioning RIDEM to reopen the area to shellfishing. The Cove was closed to shellfishing in 2009 due to samples exceeding the threshold for fecal coliform.
- ESS Group, Inc. was hired by the Town in 2015 to design and permit an innovative stormwater treatment system that includes a combination of bioretention and sand filtration to treat stormwater impacted by the fecal coliforms. The Town is currently developing a program for public input meetings.
- The Town received a grant from the Narragansett Bay Estuary Program and the New England Interstate Water Pollution Control Commission to construct the innovative stormwater system. The sand filtration portion of the project was constructed in 2017. Additional sampling is proposed to determine the effectiveness of the system and to provide data to the RIDEM shell fishing program.
- The Town has installed over 3000' of stormwater drainage piping on North Road. The new pipe system is directed toward a new sediment forebay for pretreatment prior to discharge into an existing water quality basin.
- The Town received the RIDEM FWW permit to install stormwater drainage piping and treatment systems for an additional 3700' of roadway that currently discharges to the North Reservoir. Installation was completed in 2019.
- Renovations to the Fort Getty pavilion allowed the Town to install a subsurface infiltration system for treatment of the stormwater captured on the rooftop.

SECTION II.A Other Reporting Requirements - Illicit Discharge Investigation and System Mapping (Part IV.G.2.m)

# of Illicit Discharges Identified in 2019: 0	# of Illicit Discharges Tracked in 2019: 0
# of Illicit Discharges Eliminated in 2019: 0	# of Complaints Received: 0
# of Complaints Investigated: 0	# of Violations Issued: 0
# of Violations Resolved: 0	# of Unresolved Violations Referred to RIDEM: 0
Total # of Illicit Discharges Identified to Date (since 2003): 4	Total # of Illicit Discharges remaining unresolved at the end of 2019: 0

Summary of Enforcement Actions:

- There was an unresolved illicit discharge in 2011. A local restaurant worker was discovered dumping FOG into a catch basin that eventually connected to the RIDOT stormwater system. Both the Town and RIDOT sent NOV's to the property owner. The restaurant has since closed. No further activity was identified.
- In 2018, a complaint was received about a failed septic system discharging toward the roadway was received. The Town coordinated with RIDEM Compliance and Inspection to investigate. Discharge was determined to be a sump pump discharging clean water. Complaint was resolved in that the sump pump discharge was removed from the street drainage and redirected to a vegetated area.

Extent to which the MS4 system has been mapped: 100% as previously described in Section IV.B.3.b.3 above

Total # of Outfalls Identified and Mapped to date: 125 (88 discharge to Narragansett Bay)

SECTION II.B Interconnections (Parts IV.G.2.k and IV.G.2.l)

Interconnection:	Date Found:	Location:	Name of Connectee:	Originating Source:	Planned and Coordinated Efforts and Activities with Connectee:
See Attachment 2					

MINIMUM CONTROL MEASURE #4:
CONSTRUCTION SITE STORMWATER RUNOFF CONTROL
(Part IV.B.4 General Permit)

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities implemented to support the review, issuance and tracking of permits, inspections and receipt of complaints. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (*) if this person/entity is different from last year.)

Responsible Party Contact Name & Title: Jean Lambert Engineering/GIS Coordinator

Phone: (401)423-7193 **Email:** jlambert@jamestownri.net

IV.B.4.b.1	Indicate if the Sediment and Erosion Control and Control of Other Wastes at Construction Sites ordinance was **not** developed, adopted, and submitted to RIDEM, explain reasons why, submit proposed schedule for completion and identify person(s) / Department and/or parties responsible for the completion of this requirement. **Date of Adoption:** 2005 If the Ordinance was amended in 2019, please indicate why changes were necessary. Please also indicate if amendments have been made based on the 2010 *RI Stormwater Design and Installation Standards Manual*, and provide references to the amended portions of the local codes/ordinances.

Article 5, Section 22 of the Jamestown Code of Ordinance was submitted to the RIDEM with year 2 annual report in 2005.

The Ordinance was not amended in 2019. Article V, Division 3, Section 22-256 of the Jamestown Code of Ordinance requires post-construction stormwater controls to be consistent with the RI Stormwater Design and Installation Standards Manual for development involving one acre or more of disturbance.

IV.B.4.b.6	Use the space below to describe actions taken as a result of receipt and consideration of information submitted by the public.

The Building Official inspects construction sites to ensure that erosion controls are in place. 28 building permits for new construction were issued in 2019. If necessary, the building official works with the Contractor and Homeowner to address all issues concerning runoff and/or erosion from the construction sites. In 2019, there were no instances that warranted a notice or sanction to insure compliance within the limits of the MS4.

IV.B.4.b.8	Use the space below to describe activities and actions taken as a result of referring to the State non-compliant construction site operators. The operator may rely on the Department for assistance in enforcing the provisions of the RIPDES General Permit for Stormwater Discharges Associated with Construction Activity to the MS4 if the operator of the construction site fails to comply with the local and State requirements of the permit and the non-compliance results or has the potential to result in significant adverse environmental impacts.

There were no construction site enforcement issues referred to the State in 2019.

Additional Measurable Goals and Activities:

No additional measurable goals and activities to report.

SECTION II. A - Plan and SWPPP/SESC Plan Reviews during Year 16 (2019), Part IV.B.4.b.2: Issuance of permits and/or implementation of policies and procedures for all construction projects resulting in land disturbance of greater than 1 acre. **Part IV.B.4.b.4:** Review 100% of plans and SWPPPs/SESC Plans for construction projects resulting in land disturbance of 1-5 acres must be conducted by adequately trained personnel and incorporate consideration of potential water quality impacts.

# of Construction Applications Received: _0_____

# of Construction Reviews Completed: _0_____

# of Permits/Authorizations Issued: __0_____

Summary of Reviews and Findings, include an evaluation of the effectiveness of the program.
There were no private construction projects resulting in land disturbance > 1 acre.

Identify person(s) /Department and/or parties responsible for the implementation of this requirement:
The building official is responsible for implementation of this requirement. Site plan reviews are conducted in coordination with the Public Works Department. Ms. Lambert conducts reviews for the DPW. She is a registered professional engineer who has been trained through a combination of previous work experience and on the job training. In addition, she plans to complete the SESC Training offered through the URI Cooperative Extension Service in 2019.

Ms. Lambert is currently enrolled in the CP213:Qualified Preparer of Stormwater Pollution Prevention Plans (QPSWPPP) course.

Identify the type and date of training this person(s)/parties has/have received to be considered "adequately trained":
The Building Official, Mr. Costa has been trained through a combination of previous work experience and on the job training. In 2019, Mr. Costa completed the online **CI213: Qualified Compliance Inspector of Stormwater (QCIS) – Rhode Island.**

SECTION II.B - Erosion and Sediment Control Inspections during Year 16 (2019), Parts IV.G.2.n and IV.B.4.b.7: Inspection of 100% of all construction projects within the regulated area that discharge or have the potential to discharge to the MS4. (The program must include two inspections of all construction sites, first inspection to be conducted during construction for compliance of the Erosion and Sediment controls at the site, the second to be conducted after the final stabilization of the site.) Inspections must be conducted by adequately trained personnel.

# of Active Construction Projects: 30	
# of Site Inspections: 70	# of Complaints Received: 0
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0

Summary of Enforcement Actions, include an evaluation of the effectiveness of the program.
Every project in the regulated area is subject to multiple inspections during construction.

Identify person(s) /Department and/or parties responsible for the implementation of this requirement:
The Building Official, Mr. Costa has been trained through a combination of previous work experience and on the job training. In 2019, Mr. Costa completed the online **CI213: Qualified Compliance Inspector of Stormwater (QCIS) – Rhode Island.**

Identify the type and date of training this person(s)/parties has/have received to be considered "adequately trained":
The Building Official, Mr. Costa has been trained through a combination of previous work experience and on the job training. In 2019, Mr. Costa completed the online **CI213: Qualified Compliance Inspector of Stormwater (QCIS) – Rhode Island.**

MINIMUM CONTROL MEASURE #5:
POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REVELOPMENT
(Part IV.B.5 General Permit)

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities implemented to support the review, issuance and tracking of permits, inspections and receipt of complaints, etc. Please indicate if any projects have incorporated the use of Low Impact Development techniques. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (*) if this person/entity is different from last year.)

Responsible Party Contact Name & Title: Jean Lambert Engineering/GIS Coordinator

Phone: (401)423-7193 **Email:** jlambert@jamestownri.net

IV.B.5.b.5	Use the space below to describe activities and actions taken to coordinate with existing State programs requiring post-construction stormwater management.

- The Town installed approximately 3000 linear feet of stormwater drainage piping for the first phase of the North Main Road Reconstruction Project. The project includes a closed drainage system that discharges to a new sediment forebay prior to discharge to an existing water quality basin. The project had received approval from the RIDEM – RIPDES program in 2015.
- Phase 2 of this project includes installation of approximately 3700 linear feet of stormwater drainage piping discharging to three water quality basins prior to discharge to the North Reservoir. Construction commenced in 2018 and was completed in 2019. Final road paving will occur in 2020.

IV.B.5.b.6	Use the space below to describe actions taken for the referral to RIDEM of new discharges of stormwater associated with industrial activity as defined in RIPDES Rule 31(b)(15) (the operator must implement procedures to identify new activities that require permitting, notify RIDEM, and refer facilities with new stormwater discharges associated with industrial activity to ensure that facilities will obtain the proper permits).

There were no new discharges of stormwater associated with industrial activity in 2019.

IV.B.5.b.9	Indicate if the Post-Construction Runoff from New Development and Redevelopment Ordinance was **not** developed, adopted, and submitted to RIDEM, explain reasons why, submit proposed schedule for completion and identify person(s) / Department and/or parties responsible for the completion of this requirement. **Date of Adoption:** 2005 If the Ordinance was amended in 2019, please indicate why changes were necessary. Please also indicate if amendments have been made based on the 2010 *RI Stormwater Design and Installation Standards Manual*, and provide references to the amended portions of the local codes/ordinances.

A Post-Construction Ordinance was adopted in year 2 of this program. Article V, Division 3, Section 22-256 of the Jamestown Code of Ordinance requires post-construction stormwater controls to be consistent with the RI Stormwater Design and Installation Standards Manual for development involving one acre or more of disturbance.

There were no amendments to the ordinance in 2019.

IV.B.5.b.12	Use the space below to describe activities and actions taken to identify existing stormwater structural BMPs discharging to the MS4 with a goal of ensuring long term O&M of the BMPs.

- The Town will continue to identify BMP's as we develop our stormwater database in GIS.
- The detention ponds in the West Reach and East Passage sub-divisions, the three water quality basins at the north reservoir property, and the BMP's on Town property are annually inspected and maintained.
- Maintenance requirements for new BMP's on private property located in the High Groundwater District are recorded with the permit in the Land Evidence records and referenced to the property deed.

Additional Measurable Goals and Activities:

The High Groundwater Ordinance requires applicants to meet septic system design standards and to mitigate post-construction runoff for a 10-year frequency storm event. The Town is reviewing all plans for development within the Jamestown Shores. The area consists of pre-existing non-conforming lots with an average size of 7200 sf. The Ordinance has been effective in mitigating increases in runoff due to development, promoting the recharge of groundwater and providing treatment of the water quality volume associated with the new impervious surfaces.

SECTION II.A. - Plan and SWPPP/SESC Plan Reviews during Year 16 (2019), Part IV.B.5.b.4: Review 100% of post-construction BMPs for the control of stormwater runoff from new development and redevelopment projects that result in discharges to the MS4 which incorporates consideration of potential water quality impacts (the program requires reviewing 100% of plans for development projects greater than 1 acre, not reviewed by other State programs). Plan reviews must be conducted by adequately trained personnel.

# of Post-Construction Applications Received: _0_____ No projects with development > 1 acre in 2019 # of Post-Construction Reviews Completed: _0_____ # of Permits/Authorizations Issued: _0_____
Summary of Reviews and Findings, include an evaluation of the effectiveness of the program. Twenty-two (22) applications were reviewed in 2019 for the High Groundwater Ordinance. All of the applications were for residential development in the Jamestown Shores area on lots less than 20,000 sf. Eighteen (18) of the applications were exempt in that there was no or minimal increase in impervious surfaces. Remaining applicants mitigated the increase in stormwater runoff for the 10-year frequency storm utilizing best management practices including infiltration areas, dry wells and rain gardens. The Town Ordinance promotes the use of low impact development by recommending the use of low impact design practices that promote infiltration of stormwater. Identify person(s) /Department and/or parties responsible for the implementation of this requirement: The Department of Public Works conducts reviews of the applications. The Building Official has oversite of installation. Identify the type and date of training this person(s)/parties has/have received to be considered "adequately trained": Ms. Lambert conducts reviews for the DPW. She is a registered professional engineer who has been trained through a combination of previous work experience and on the job training. Ms. Lambert is currently enrolled in the CP213:Qualified Preparer of Stormwater Pollution Prevention Plans (QPSWPPP) course.

SECTION II.B. - Post Construction Inspections during Year 16 (2019), Parts IV.G.2.o and IV.B.5.b.10 - Proper Installation of Structural BMPs: Inspection of BMPs, to ensure these are constructed in accordance with the approved plans (the program must include inspection of 100% of all development greater than one acre within the regulated areas that result in discharges to the MS4 regardless of whom performs the review). Inspections must be conducted by adequately trained personnel.

# of Active Construction Projects: 0 > 1 acre	# of Construction Projects Completed: 0
# of Site Inspections for proper Installation of BMPs: 0	# of Complaints Received: 0
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0
Summary of Enforcement Actions: No post-construction enforcement actions in 2019. Identify person(s) /Department and/or parties responsible for the implementation of this requirement: The Building Official, Mr. Chris Costa, is responsible for this requirement. Identify the type and date of training this person(s)/parties has/have received to be considered "adequately trained": The Building Official, Mr. Costa has been trained through a combination of previous work experience and on the job training. In 2019, Mr. Costa completed the online **CI213: Qualified Compliance Inspector of Stormwater (QCIS) – Rhode Island.**	

SECTION II.C. - Post Construction Inspections during Year 16 (2019), Parts IV.G.2.p and IV.B.5.b.11 - Proper Operation and Maintenance of Structural BMPs: Describe activities and actions taken to track required Operations and Maintenance (O&M) actions for site inspections and enforcement of the O&M of structural BMPs. Tracking of required O&M actions for site inspections and enforcement of the O&M of structural BMPs.

# of Site Inspections for proper O&M of BMPs: 0	# of Complaints Received: 0
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0
Summary of Activities and Enforcement Actions. Evaluate the effectiveness of the Program in minimizing water quality impacts. No post-construction enforcement actions in 2019. Identify person(s) /Department and/or parties responsible for the implementation of this requirement: The Building Official, Mr. Chris Costa, is responsible for this requirement.	

Strategies for requiring the use of non-structural Low Impact Development (LID) site design practices and techniques into stormwater management designs for new and redevelopment projects, check all that apply in your municipality/MS4:

☐ None
☒ Ordinances or by-laws requiring LID standards (e.g. reduced road widths, % conservation land, etc.)
☒ Ordinances or by-laws requiring LID design at conceptual review (i.e., Pre-application and/or Master Plan) stages for municipal review prior to plans being engineered.
☐ Ordinances or by-laws requiring LID standards only in impaired waterbody drainage areas
☐ Local development regulations requiring use of LID to the maximum extent practicable
☐ LID Guidance available in written form
☐ LID Guidance available at pre-application meetings
☒ Other strategies to ensure incorporation of LID to the maximum extent practicable, describe:

Cluster development required for >4 lot subdivisions

Person(s)/Department responsible for reviewing submissions for LID:

Jamestown Town Planner – Lisa Bryer

Person(s)/Department/Board responsible for approving submissions for LID at Preliminary and/or Final Review, if applicable:

Jamestown Town Planner – Lisa Bryer

Are you aware of the Municipal LID Self-Assessment that was introduced by the DEM and RI NEMO in September 2019 and again during the December 12, 2019 MS4 Gathering?

☒ Yes ☐ No

A final version of the Municipal LID Self-Assessment is expected to be available on the DEM's website in early 2020. Does your community plan to complete it?

☒ Yes ☐ No

If No, why not? _____

Strategies being implemented to ensure long-term Operation and Maintenance (O&M) of privately-owned structural stormwater BMPs, check all that apply in your municipality/MS4:

- ☐ None
- ☐ Ordinances or by-laws identify BMP inspection responsible party
- ☐ Ordinances or by-laws identify BMP maintenance responsible party
- ☒ Ordinances or by-laws identify BMP inspections and maintenance requirements
- ☐ Ordinances or by-laws provide for easements or covenants for inspections and maintenance
- ☐ Ordinances or by-laws require for every constructed BMP an inspections and maintenance agreement
- ☐ Ordinances or by-laws contain requirements for documenting and detailing inspections
- ☐ Ordinances or by-laws contain requirements for documenting and detailing maintenance
- ☐ Ordinances or by-laws contain authority to enforce for lack of maintenance or BMP failure
- ☐ The MS4 is responsible for inspections of all privately-owned BMPs
- ☐ The MS4 is responsible for maintenance of all privately-owned BMPs
- ☐ Establishment of escrow account for use in case of failure of BMP
- ☒ Other strategies to ensure long-term O&M of privately-owned BMPs, describe:

The Town is responsible for maintenance of privately owned BMP's associated with Town drainage infrastructure in West Reach and East Passage subdivisions.

Does your municipality/MS4 require the use BMPs Operations and Maintenance Agreements?	☒ YES ☐ NO
If YES, please indicate if the Operations and Maintenance Agreements include the following:	
a. Party responsible for the long-term O&M of permanent stormwater management BMPs	☒ YES ☐ NO
b. A description of the permanent stormwater BMPs that will be operated and maintained	☒ YES ☐ NO
c. The location of the permanent stormwater BMPs that will be operated and maintained	☒ YES ☐ NO
d. A timeframe for routine and emergency inspections and maintenance of all permanent stormwater management BMPs	☒ YES ☐ NO
e. A requirement that all inspections and maintenance activities are documented	☐ YES ☒ NO
f. Annual submission of inspection/maintenance certification/documentation to the MS4	☐ YES ☒ NO
g. Stormwater management easement for access for inspections and maintenance or the preservation of stormwater runoff conveyance, infiltration, and detention areas and other stormwater controls and BMPs by persons other than the property owner	☐ YES ☒ NO
h. Steps available for addressing a failure to maintain the stormwater controls and BMPs	☐ YES ☒ NO

Please elaborate, if appropriate:

_____

_____

Does your municipality/MS4 keep an inventory of privately-owned BMPs?	☒ YES ☐ NO

<u>For privately-owned structural BMPs</u>, does your municipality/MS4 have a system for tracking:

a. Agreements and arrangements to ensure O&M of BMPs?	☐ YES ☒ NO
b. Inspections?	☐ YES ☒ NO
c. Maintenance and schedules?	☐ YES ☒ NO
d. Complaints?	☐ YES ☒ NO
e. Non-Compliance?	☐ YES ☒ NO
f. Enforcement actions?	☒ YES ☐ NO

Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track post-construction BMPs, inspections, and maintenance? ☒ YES ☐ NO

<u>If yes, please elaborate on which tools are used:</u>

The Town has started a database of private BMP's approved under the High Groundwater Ordinance. Initially, we plan to monitor BMP installation but hope to include operation and maintenance tracking in the future.

NOTE: BMP maintenance tasks can be a great way to involve and educate the community to their purpose and function. BMPs have the potential to create a highly interactive environment for community members and volunteers to get involved.

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MINIMUM CONTROL MEASURE #6:
POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS
(Part IV.B.6 General Permit)

SECTION I. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:

Include information relevant to the implementation of each measurable goal, such as activities and practices used to address on-going requirements, and personnel responsible. Discuss activities to be carried out during the next reporting cycle. If addressing TMDL requirements, please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (*) if this person/entity is different from last year.)

Responsible Party Contact Name & Title: Jean Lambert Engineering/GIS Coordinator

Phone: **(401)423-7193** Email: **jlambert@jamestownri.net**

IV.B.6.b.1.i	Use the space below to describe activities and actions taken to identify structural BMPs (these include but are not limited to: retention/detention basins, vegetated treatment, infiltration and pre-treatment controls, etc.) owned or operated by the small MS4 operator (the program must include identification and listing of the specific location and a description of all structural BMPs in the SWMPP and update the information in the Annual Report). Evaluate appropriateness and effectiveness of this requirement. **Do you have an inventory of MS4-owned/operated BMPs?** ☒ YES ☐ NO **Total # of MS4-owned/operated BMPs** (does not include CBs or MHs): 11

There are two (2) stormwater BMP's at the North Reservoir that were installed by the DPW in 2004, one (1) BMP at the Highway Garage installed in 2009 and two (2) water quality basins at the Transfer Station. These BMP's are inspected and maintained annually. A sand filtration BMP was placed on-line this year below Maple Avenue to provide water quality treatment of stormwater runoff to Sheffield Cove.

One additional BMP with sediment forebay was constructed near the North Reservoir and placed on-line in 2019.

The Town also maintains 4 detention basins located in 2 existing subdivisions on the island.

IV.B.6.b.1.ii	Use the space below to describe activities and actions taken for inspections, cleaning and repair of detention/retention basins, storm sewers and catch basins with appropriate scheduling given intensity and type of use in the catchment area. Evaluate appropriateness and effectiveness of this requirement. **# of MS4-owned/operated BMPs inspected in 2019**: 7 **# of MS4-owned/operated BMPs maintained/cleaned in 2019**: 7 **# of MS4-owned/operated BMPs repaired in 2019**: 0 Does your municipality/MS4 have a system for tracking: a. Inspection schedules of MS4-owned BMPs? ☒ YES ☐ NO b. Maintenance/cleaning schedules of MS4-owned BMPs? ☒ YES ☐ NO c. Repairs, corrective actions needed? ☒ YES ☐ NO d. Complaints? ☒ YES ☐ NO Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track stormwater BMPs, inspections, and maintenance? ☐ YES ☒ NO

Detention basins and water quality basins are cleaned and maintained annually. The three sediment/water quality basins located at the North Reservoir were reconstructed in 2019 in lieu of maintenance.

The porous paving/sand filter system on Maple Ave was swept for annual maintenance.

IV.B.6.b.1.iii	Use the space below to describe activities and actions taken to support the requirement of yearly inspection and cleaning of all catch basins (a lesser frequency of inspection based on at least two consecutive years of operational data indicating the system does not require annual cleaning might be acceptable). Evaluate appropriateness and effectiveness of this requirement. **Total # of CBs within regulated area (including SRPW and TMDL areas):** 940 **# of CBs inspected in 2019:** 940 **% of Total inspected:** 100 **# of CBs cleaned in 2019:** 940 **% of Total cleaned:** 100 Quantity of sand/debris collected by cleaning of catch basins: 208* Location used for the disposal of debris: Central Landfill** Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track the inspections and cleaning of catch basins? ☐ YES ☒ NO

A new vac-truck was put in to use in Town in 2016.

*Quantity of sand/debris from catch basins is combined with quantity of sand/debris collected from streets.

**Sand and sediment removed from the MS4 is temporarily stockpiled at the transfer station property on North Main Road. This material is then transported and disposed of at the Central Landfill for use as daily cover. A total of 208 tons were removed in 2019.

IV.B.6.b.1.iv	Use the space below to describe activities and actions taken to minimize erosion of road shoulders and roadside ditches by requiring stabilization of those areas. Evaluate appropriateness and effectiveness of this requirement.

Town DPW staff routinely mow ditches and remove woody vegetation as needed. Eroded areas are immediately seeded and repaired to minimize soil erosion.

IV.B.6.b.1.v	Use the space below to describe activities and actions taken to identify and report known discharges causing scouring at outfall pipes or outfalls with excessive sedimentation, for the Department to determine on a case-by-case basis if the scouring or sedimentation is a significant and continuous source of sediments. Evaluate appropriateness and effectiveness of this requirement.

Annual outfall inspections are conducted and a list of outfalls in need of O&M is prepared and provided to the DPW staff.

IV.B.6.b.1.vi	Use the space below to indicate if all streets and roads within the urbanized area were swept annually and if not indicate reason(s). Evaluate appropriateness and effectiveness of this requirement. **Total roadway miles within regulated area (including SRPW and TMDL areas):** 24 **Roadway miles that were swept in 2019:** 39 **% of Total swept:** 100 Type of sweeper used: ☐ Rotary brush street sweeper ☒ Vacuum street sweeper Quantity of sand/debris collected by sweeping of streets and roads: 208* Location used for the disposal of debris: Central Landfill Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track the annual sweeping of streets and roads? ☐ YES ☒ NO

*Quantity of sand/debris from catch basins is combined with quantity of sand/debris collected from streets.

IV.B.6.b.1.vii	Use the space below to describe activities and actions taken for controls to reduce floatables and other pollutants from the MS4. Evaluate appropriateness and effectiveness of this requirement.
The Town continues to fund the Youth Litter Corps during the summer months and fall weekends. The Corps is nine (9) part-time staff working six (6) hours per day, four (4) days per week. The Youth Corps program is very effective at reducing floatables and other pollutants from town properties and drainage systems.	
IV.B.6.b.1.viii	Use the space below to describe the method for disposal of waste removed from MS4s and waste from other municipal operations, including accumulated sediments, floatables and other debris and methods for record-keeping and tracking of this information. Do you have a system for tracking actions to remove and dispose of waste? ☒ YES ☐ NO
Sand and sediment removed from the MS4 is temporarily stockpiled at the transfer station property on North Main Road. This material is then transported and disposed of at the Central Landfill for use as daily cover. A total of 208 tons were removed in 2019.	
IV.B.6.b.4 and IV.B.6.b.5	Use the space below to describe and indicate activities and corrective actions for the evaluation of compliance. This evaluation must include visual quarterly monitoring; routine visual inspections of designated equipment, processes, and material handling areas for evidence of, or the potential for, pollutants entering the drainage system or point source discharges to a waters of the State; and inspection of the entire facility at least once a year for evidence of pollution, evaluation of BMPs that have been implemented, and inspection of equipment. A Compliance Evaluation report summarizing the scope of the inspection, personnel making the inspection, major observations related to the implementation of the Stormwater Management Plan (formerly known as a Stormwater Pollution Prevention Plan), and any actions taken to amend the Plan must be kept for record-keeping purposes.
The DPW supervisor conducts routine visual inspection of the garage and property to ensure that equipment is properly maintained and that all spills are properly contained and cleaned.	
IV.B.6.b.6	Use the space below to describe all employee training programs used to prevent and reduce stormwater pollution from activities such as park and open space maintenance, fleet and building maintenance, new construction and land disturbances, and stormwater system maintenance for the past calendar year, including staff municipal participation in the URI NEMO stormwater public education and outreach program and all in-house training conducted by municipality or other parties. Evaluate appropriateness and effectiveness of this requirement. How many stormwater management trainings have been provided to *municipal employees* during this reporting period? _6_____ What was the date of the last training? _11__/_7__/_2019___ How many *municipal employees* have been trained in this reporting period? _5____ What percent of *municipal employees* in relevant positions and departments received stormwater management training? _100_____% Have *municipal employees* that are responsible for inspecting or cleaning catch basins also been trained to detect and report illicit connections or non-stormwater discharges? _yes

RI General Construction Stormwater Awareness Training, November 2019
Attending name of staff and title*:

- Jean Lambert, Engineering/GIS Coordinator
- Michael Gray, Director of Public Works
- Chris Costa, Building Official
- Steve Bonner, Foreman
- Kevin Deacon, Highway Supervisor

(*A copy of the sign-in sheet is enclosed with this report.)

CI213: Qualified Compliance Inspector of Stormwater (QCIS) – Rhode Island
Attending name of staff and title: __Chris Costa, Building Official___completed 12/3/2019_____

CP213:Qualified Preparer of Stormwater Pollution Prevention Plans (QPSWPPP) - Rhode Island
Jean Lambert, GIS/Engineering Coordinator: currently enrolled with class underway (January 2020)

IV.B.6.b.7	Use the space below to describe actions taken to ensure that new flow management projects undertaken by the operator are assessed for potential water quality impacts and existing projects are assessed for incorporation of additional water quality protection devices or practices. Evaluate appropriateness and effectiveness of this requirement.

The Town continues to assess potential water quality impacts from proposed development projects.

Additional Measurable Goals and Activities3
Construction of the North Main Road drainage improvement projected commenced in 2016. The first phase of this project was approved by the RIDEM – RIPDES program in 2015. Phase 2 of the project has received a RIDEM – FWW permit and construction commenced in spring 2018. Construction was completed in 2019 and will include the addition of a water quality basin adjacent to the North Reservoir and reconstruction of an existing water quality basin.

The Town received a grant from the Narragansett Bay Estuary Program and the New England Interstate Water Pollution Control Commission to design and construct an innovative stormwater system that includes a combination of bioretention and sand filtration. The purpose of the project is to reduce pathogen loading to Sheffield Cove. Construction of the sand filtration system was completed in December 2017.

SECTION II.A - Structural BMPs (Part IV.B.6.b.1.i) These include but are not limited to: retention/detention basins, vegetated treatment, infiltration and pre-treatment controls, etc.

BMP ID:	Location:	Name of BMP Owner/Operator:	Description of BMP:	Frequency of Inspection:
POND 1	North Main Road/North Reservoir	Town of Jamestown	Bioretention Pond/Forebay	Annual
POND 2	North Main Road/North Reservoir	Town of Jamestown	Bioretention Pond/Forebay	Annual
POND 3	West Reach Development	Privately Owned/ Town Maintained	Detention Pond/Forebay	Annual
POND 4	West Reach Development	Privately Owned/ Town Maintained	Detention Pond	Annual
POND 5	East Passage Development	Privately Owned/ Town Maintained	Detention Pond	Annual
POND 6	East Passage Development	Privately Owned/ Town Maintained	Detention Pond	Annual
POND 7	Transfer Station	Town of Jamestown	Detention Pond	Annual
POND 8	Transfer Station	Town of Jamestown	Detention Pond	Annual
POND 9	Highway Garage	Town of Jamestown	Detention Pond	Annual
SC 1	Maple Ave/Sheffield Cove	Town of Jamestown	Sand Filter	Annual
POND 10	North Main Road/North Reservoir	Town of Jamestown	Bioretention Pond/Forebay	Annual

SECTION II.B - Discharges Causing Scouring or Excessive Sedimentation (Part IV.B.6.b.1.v)

Outfall ID:	Location:	Description of Problem:	Description of Remediation Taken, include dates:	Receiving Water Body Name/Description:
N/A				

SECTION II.C - Note any planned municipal construction projects/opportunities to incorporate water quality BMPs, low impact development, or activities to promote infiltration and recharge (Part IV.G.2.j).

Construction of Phase 1 of the North Main Road drainage project was completed in 2017. The project includes a closed drainage system discharging to an existing detention pond in West Reach. A sediment forebay was added to the basin. Construction of Phase 2 began in 2018 and was completed in 2019. Phase 2 includes 3700 feet of stormwater piping discharging to water quality basins prior to the North Reservoir. One new water quality basin with a forebay was added and two existing basins were reconstructed with sediment forebays.

The overflow structure for POND2 in West Reach was reconstructed in 2017.

SECTION II.D - Please include a summary of results of any other information that has been collected and analyzed. This includes any type of data (Part IV.G.2.e).

No addition water quality sampling was conducted in 2019.

The Town plans to conduct additional water quality sampling of the Sheffield Cove BMP to determine the effectiveness of the installation.

TOTAL MAXIMUM DAILY LOAD (TMDL) or other Water Quality Determination REQUIREMENTS

SECTION I. If you have been notified that discharges from your MS4 require non-structural or structural stormwater controls based on an approved TMDL or other water quality determination, please provide an assessment of the progress towards meeting the requirements for the control of stormwater identified in the approved TMDL (Part IV.G.2.d). Please indicate rationale for the activities chosen to address the pollutant of concern.

(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals. Mark with an asterisk (*) if this person/entity is different from last year.)

Responsible Party Contact Name & Title: Jean Lambert Engineering/GIS Coordinator

Phone: (401)423-7193 **Email:** jlambert@jamestownri.net

LIST OF IMPAIRED WATERS:			
Impaired Water Body: Sheffield Cove	Pollutants Causing Impairments: Fecal Coliform	Has TMDL been completed? Has MS4 been notified of TMDL requirements? Has MS4 developed a Scope of Work or TMDL Implementation Plan?	☐ YES ☒ NO ☐ YES ☒ NO ☐ YES ☒ NO
Impaired Water Body:	Pollutants Causing Impairments:	Has TMDL been completed? Has MS4 been notified of TMDL requirements? Has MS4 developed a Scope of Work or TMDL Implementation Plan?	☐ YES ☐ NO ☐ YES ☐ NO ☐ YES ☐ NO
[add as necessary]			

What kind of public education and outreach strategy does the MS4 implement to target each pollutant of concern? (e.g., signage on installed stormwater controls, resources on website, pamphlets about litter, pet waste, grass clippings, fertilizer use, etc.)

Pollutant of Concern:	Strategy:	Target Audience:
Fecal Coliform	Distribute brochure about managing pet waste; install and maintain pet waste pick up stations	Pet owners

Has the MS4 installed stormwater BMPs to address impairments? ☒ YES ☐ NO

If yes, indicate the type of stormwater control, date installed, ownership, and who is responsible for maintenance:

Type of Stormwater Control:	Date Installed:	Who owns it?	Who maintains it?
Infiltration filter	December 2017	Town of Jamestown	Town of Jamestown

Additional enhanced minimum measures used to address water quality issues (e.g., increased street sweeping or catch basin cleaning in areas with high pollutant loading, installation of floatable traps/screens, etc.):

In 2011, Jamestown Brook (RI0007036R-01) was listed on the statewide bacteria TMDL List for exceedances of Iron, Lead, Copper and pathogens. TMDL is scheduled for 2026. A TMDL for fecal coliforms was completed 9/22/2011.

The Town believes that the bacteria problem originates from wildlife in the contributing watershed area. The watershed to the Jamestown Brook is primarily forested and open space with small residential area. The primary roadway within the watershed is the RIDOT roadway (North Road). The Town is currently working with RIDOT to develop enhanced water quality treatment in the watershed.

Fox Hill Pond and Sheffield Cove are scheduled for TMDL's in 2023.

SPECIAL RESOURCE PROTECTION WATERS (SRPWs)

SECTION I. In accordance with Rule 31(a)(5)(i)G of the *Regulations for the Rhode Island Pollutant Discharge Elimination System* (RIPDES Regs), on or after March 10, 2008, any discharge from a small municipal separate storm sewer system to any Special Resource Protection Waters (SRPWs) or impaired water bodies within its jurisdiction must obtain permits if a waiver has not been granted in accordance to Rule 31(g)(5)(iii). A list of SRPWs can be found in Appendix D of the *RIDEM Water Quality Regulations* at this link:
http://www.dem.ri.gov/pubs/regs/regs/water/h20q09a.pdf
The 2008 303(d) Impaired Waters list can be found in Appendix G of the *2008 Integrated Water Quality Monitoring and Assessment Report* at this link: http://www.dem.ri.gov/programs/benviron/water/quality/pdf/iwqmon08.pdf

If you have discharges from your MS4 (regardless of its location) to any of the listed SRPWs or impaired waters (including impaired waters when a TMDL has not been approved), please provide an assessment of the progress towards expanding the MS4 Phase II Stormwater Program to include the discharges to the aforementioned waters and adapting the Six Minimum Control Measures to include the control of stormwater in these areas. Please indicate a rationale for the activities chosen to protect these waters. Please note that all of the measurable goals and BMPs required by the 2003 MS4 General Permit may not be applicable to these discharges.

The Town SRPWs include the following waterbodies associated with the Jamestown Water Supply:

- Jamestown Brook
- North Carr Pond
- South Watson Pond

There are no Town discharges to Jamestown Brook or South Watson Pond. The Town is coordinating with the RIDOT to address discharges from the State roadway toward Jamestown Brook.

A portion of North Road discharges via overland flow toward North Carr Pond. There are two existing water quality basins that capture flow for treatment prior to discharge into the Pond. The Town received a RIDEM grant in 2017 to install an additional water quality basin and to upgrade the existing basins to provide additional water quality treatment of stormwater runoff from North Road to the North Carr Pond Reservoir. Construction on the additional basin and the upgraded basins will be completed in 2019.

THE TOWN OF JAMESTOWN, RHODE ISLAND
2019 RIPDES SMALL MS4 ANNUAL REPORT

LIST OF ATTACHMENTS

1. Copy of Public Notice
2. List of Town-State Catch Basin Interconnection ID's
3. Town Street Sweeping Map
4. Town Municipal Waste Summary – Alt Cover from Street Sweepings
5. Town Street Sweeping List
6. Lab results for sampling
7. Outfall Location Mapping
8. Pet Waste Management Brochure
9. Stormwater Awareness Training Sign In Sheet/Class Completion Email

TOWN OF JAMESTOWN
Public Notice

Draft 2019 Phase II Stormwater Annual Report

Public notice is hereby given of the draft Phase II Stormwater Annual Report prepared in accordance with the RIPDES program general permit for storm water discharges from small municipal separate storm water systems. A copy of the DRAFT Phase II Storm Water Annual Report may be obtained by visiting The Town's website at: www.jamestownri.gov Further information about the draft annual report is available in the Engineering Office of The Public Works Department. Contact Jean Lambert at (401) 423-7193.

Attachment 1

Jamestown Town-State Interconnections

CB ID Numbers with Connections between Town Pipes and State System:

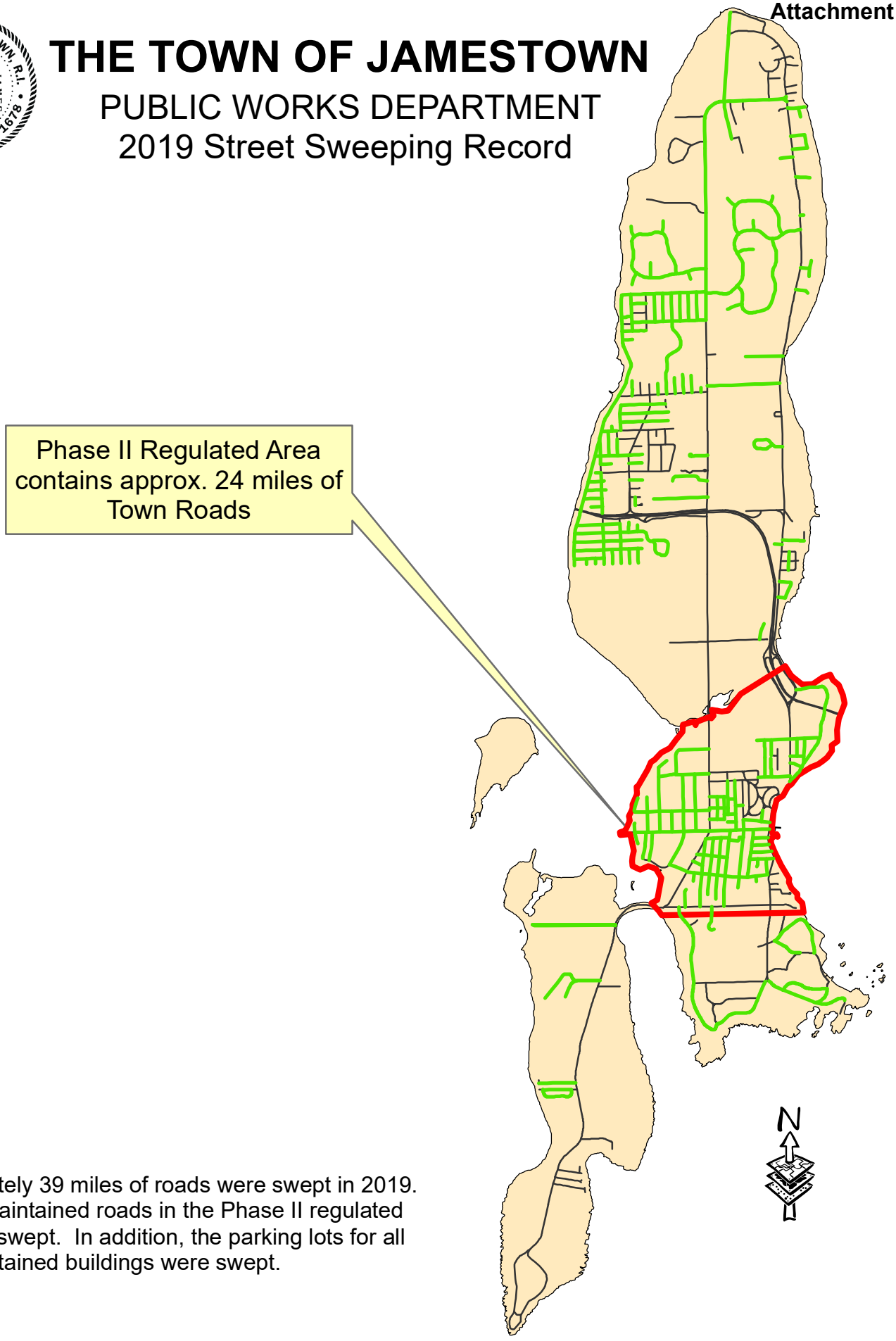
53-2
63-3
65-11
65-17
65-28
65-3?
65-31
65-46
65-49
65-52
65-66
71-1
71-19
71-32
71-33
85-7
95-3
95-6
100-2
100-27
101-4
115-4
115-5
117-1

Attachment 3

THE TOWN OF JAMESTOWN

PUBLIC WORKS DEPARTMENT

2019 Street Sweeping Record



Notes:

Approximately 39 miles of roads were swept in 2019. All Town maintained roads in the Phase II regulated area were swept. In addition, the parking lots for all Town maintained buildings were swept.

RIRRC Municipal Customer Monthly Summary: Jamestown - January 2020

Municipal Cap Summary:

For the current fiscal year, as of January 31 2020, Jamestown has tipped 1,034 refuse tons (55.9%) of its 1,850 ton cap, and has delivered 576 tons of recyclables to the Materials Recycling Facility, for a MRF Recycling Rate of 35.8%.

13 Month Material Summary By Customer Account:

Material (Code): Account	*Jan-2019*	*Feb-2019*	*Mar-2019*	*Apr-2019*	*May-2019*	*Jun-2019*	*Jul-2019*	*Aug-2019*	*Sep-2019*	*Oct-2019*	*Nov-2019*	*Dec-2019*	*Jan-2020*	*12 Month Total*
Transactions Measured in Tons														***Ton***
Municipal Cap Wastes	**134**	**125**	**132**	**146**	**175**	**167**	**174**	**175**	**142**	**128**	**144**	**128**	**142**	**1,779**
MUNICIPAL WASTE (201): JAME471693	*134*	*125*	*132*	*146*	*175*	*167*	*174*	*175*	*142*	*128*	*144*	*124*	*142*	*1,775*
MRF REJECTED LOAD (714R): JAME471693	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*4*	*0*	*4*
MRF Recycling	**71**	**55**	**68**	**67**	**83**	**85**	**106**	**108**	**79**	**72**	**69**	**78**	**65**	**934**
MUNICIPAL SINGLE STREAM RECYCLABLES (714): JAME470693	*71*	*55*	*68*	*67*	*83*	*85*	*106*	*108*	*79*	*72*	*69*	*78*	*65*	*934*
Other Wastes	**201**	**0**	**7**	**18**	**104**	**30**	**0**	**0**	**0**	**0**	**0**	**0**	**57**	**215**
SLUDGE/GRIT/RAGS (314): JAME471693	*0*	*0*	*7*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*7*
ALT. CVR. SCREENED STREET SWEEPINGS (355): JAME471693	*201*	*0*	*0*	*17*	*104*	*30*	*0*	*0*	*0*	*0*	*0*	*0*	*57*	*208*
ENVIRONMENTAL/LITTER CLEAN-UP (401): JAME471693	*0*	*0*	*0*	*1*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*1*
Compostables	**0**	**0**	**0**	**23**	**12**	**0**	**0**	**0**	**19**	**0**	**0**	**31**	**81**	**165**
LEAF/YARD DEBRIS (312): JAME471693	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*31*	*81*	*112*

Attachment 4

TOWN OF JAMESTOWN, RI

Attachment 5-1

2019 STREET SWEEPING RECORD

DATE	STREET NAME
4/11/2019	Knowles Court, Holmes Court, Coronado Street, Cross Street, Grinnell Street, Elm Street Shady Lane, Harriet Street, Plymouth Street, Fowler Street, Luther Street, Swinburne Street.
4/12/2019	Valley Street, Douglas Street, Clarke Street, Antham Street, Pleasant View, Columbia Street, Cole Street.
4/16/2019	Melrose Street, West Passage Drive, Arnold Avenue (one-way), Lawn Avenue, Watson Avenue, Melrose School lots, Lawn School lots.
4/17/2019	Watson Avenue (dead-end), West Bayview Drive, Ocean Avenue, Arnold Avenue , Pemberton Avenue, Lawn Ave School playground area
4/18/2019	West Street, Howland Avenue (north end), Windsor Street, Westwind Drive, Marina Avenue, Pierce Avenue, Maple Avenue, Spring Street, High Street (Southwest to Walcott).
4/22/2019	Hammet Court, Howland Avenue (south end), Columbia Avenue, Green Lane, Baldwin Court, High Street (dead-end east of Walcott), Old Walcott Avenue, Pardon Tucker Dr, Brook Street, Friendship, Lincoln, Union Street, Freebody Drive
4/23/2019	Bayview Drive, Taylor Point Parking Area, Davis Street
4/24/2019	Harbor Street, Buloid Street, Bay Street, Mount Hope Avenue, Pennsylvania (north), Calvert Place, Pennsylvania (south), Bryer Avenue, Meadow Lane, Fox Run
4/25/2019	Fort Wetherill Road, Newport Street, Racquet Road, Stanton Street, Golf Course parking lot, police station lots
4/29/2019	Dumpling Drive, Walnut Street (south), Highland Drive (Walcott to Blueberry)
4/30/2019	Highland Drive (Hamilton to Blueberry), Juniper Circle, Blueberry (West Side), Walnut Street (north side), Fort Getty Road (past pavilion), Battery Lane (top part)
5/1/2019	Battery Lane (lower section), Bayberry Drive, Arnold Street, Bonnet View, Whale Rock Road, Water Plant parking area
5/2/2019	Seaview Drive, Marcello Drive, Decatur Avenue, Hull Ct, Reservoir Circle, Wright Lane, Bridgeview Drive, Carr Lane, Weeden Lane
5/2/2019	Mercy Weeden, Cedar Lane, Severance Lane, Rosemary Lane, North Road (138 to Frobergs)
5/6/2019	Fire Station lots, Carr Lane, North Road (Frobergs to Summit Ave)

TOWN OF JAMESTOWN, RI

Attachment 5-2

2019 STREET SWEEPING RECORD

DATE	STREET NAME
5/7/2019	Aquidneck Ct, Holmested Ct, Collins Terrace, Wildflower Dr, Court Street, Orient Ave, Clinton Street, Broad Street
5/10/2019	Park Street, North Road (East Shore to Summit), Summit Ave, America Way (East Shore to Columbia Lane)
5/13/2019	America Way, Courageous Ct, Ranger Ct, Shamrock Ct, Columbia Lane
5/14/2019	Constellation Ct, Weatherly Ct, Intrepid Ln
5/15/2019	Seafarer Ct, Topmast Ct, Skysail Ct, West Reach Dr (1/2)
5/16/2019	Flyjib Ct, Foreroyal Ct, West Reach Dr (1/2)
5/21/2019	East Ferry parking area, Conanicus Ave near East Ferry lot
5/23/2019	Narragansett Ave, Capstan, Davit, Felucca, Sampan, Schooner, Gondola
5/28/2019	Cutter, Lugger, Champlain Way, Umiak, Beacon Ave (north end), Dory, Catamaran, Seaside Dr (Frigate to Capstan)
5/29/2019	Frigate, Davit, Felucca, Sampan, Gondola, Port, Beacon (dead end), Schooner, Yawl, Bark
5/30/2019	Lower Spanker, Starboard, Lower Buoy
5/31/2019	Upper Spanker, Upper Ship, Upper Buoy, Upper Spirketing, Upper Ferry, Upper Riptide, Upper Spindrift, Nemo Way, Beacon (Frigate to Spindrift)
6/6/2019	Beacon (Frigate to 138), Spirketing (Beacon to Seaside), Mizzen, Station, Port St, Dolphin, Nun, Garboard, Norman Road, Keel Ave, Top o Mark, Steamboat
6/10/2019	Beach (Seaside to Nautilus), Steamboat (Beach to gravel section), Nautilus (off Beach), Riptide (off Beach), Neptune (off Beach), Spindrift (off Beach), Seaside (Frigate to Bridge)

BAL Laboratory
The Microbiology Division of Thielsch Engineering, Inc.

Jean Lambert
Jamestown Water
93 Narragansett Ave. PO Box 377
Jamestown. RI 02835

RE: Outfall Sampling

Dear Jean Lambert:

We appreciate this opportunity to provide you with our analytical services. BAL Laboratory is committed to providing the highest quality service. Our dedication to each client includes responsiveness to emergencies, dependability, well-written reports and superior client services.

Enclosed is your data report for **Work Order Number C909004.** The invoice for this project is included with this report unless other arrangements have previously been made with the laboratory. Samples will be disposed of thirty days after the final report has been mailed. If you have any questions or concerns, please feel free to call our Customer Service Department. We value our continued relationship and look forward to hearing from you in the future.

Sincerely,

BAL Laboratory

Laurel Stoddard
Laboratory Director

RI Laboratory License Number: RI LAI00036
MA Laboratory License Number: M RI-M01

enclosure

Industrial Microbiology - Environmental Investigation - Biological and Specialty Analyses of Water and Wastes - Pollution Tracking and Source Determination - Monitoring Programs - Trend Assessments - Seafood Analyses - Drinking Water Quality - Biosolids and Compost Testing - Biofilter Assessment - Bioaerosol Monitoring - Corrosion Analysis

BAL LABORATORY

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client: Jamestown Water
Client Project ID: Outfall Sampling

Work Order Number: C909004
Date Received: 9/3/2019 12:16:00PM

Microbiology

Client Sample ID: Culin
BAL Sample ID: C909004-01 **Matrix:** Aqueous **Sampled:** 09/03/19 11:05

Analyte	Result	Units	Analyzed	Analyst	Method
Fecal Coliform	**98**	CFU/100mL	09/03/19 13:40	JSG	9222D

Client Sample ID: 91
BAL Sample ID: C909004-02 **Matrix:** Aqueous **Sampled:** 09/03/19 11:00

Analyte	Result	Units	Analyzed	Analyst	Method
Fecal Coliform	**450**	CFU/100mL	09/03/19 13:40	JSG	9222D

Client Sample ID: 5
BAL Sample ID: C909004-03 **Matrix:** Aqueous **Sampled:** 09/03/19 10:50

Analyte	Result	Units	Analyzed	Analyst	Method
Fecal Coliform	**23**	CFU/100mL	09/03/19 13:40	JSG	9222D

Client Sample ID: 7
BAL Sample ID: C909004-04 **Matrix:** Aqueous **Sampled:** 09/03/19 10:45

Analyte	Result	Units	Analyzed	Analyst	Method
Fecal Coliform	**330**	CFU/100mL	09/03/19 13:40	JSG	9222D

Client Sample ID: 8
BAL Sample ID: C909004-05 **Matrix:** Aqueous **Sampled:** 09/03/19 10:30

Analyte	Result	Units	Analyzed	Analyst	Method
Fecal Coliform	**65**	CFU/100mL	09/03/19 13:40	JSG	9222D

Client Sample ID: 71
BAL Sample ID: C909004-06 **Matrix:** Aqueous **Sampled:** 09/03/19 09:40

Analyte	Result	Units	Analyzed	Analyst	Method
Fecal Coliform	**80**	CFU/100mL	09/03/19 13:40	JSG	9222D

BAL LABORATORY

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client: Jamestown Water
Client Project ID: Outfall Sampling

Work Order Number: C909004
Date Received: 9/3/2019 12:16:00PM

Notes and Definitions

MF	Membrane Filtration
MPN	Most Probable Number
TNTC	Too Numerous to Count
dry	Sample results reported on a dry weight basis
CFU	Colony Forming Units

BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.
185 Frances Avenue, Cranston, Rhode Island 02910
401-785-0241 FAX 401-785-2374

CHAIN OF CUSTODY

C909004

PROJECT NAME: PHASE 2 DRY WEATHER SAMPLING

LOCATION: JAMESTOWN RI

NUMBER:

Source Code:
W = Well; LF = Landfill; O = Outfall; T = Treatment Facility; RO = Runoff; L = Lake/Ocean; B = Bottom Sediment; X = Other/Specify_____; DR = Diluent River; DO = Diluent Ocean

BAL Sample No.	Sample ID.	Source Code	Sample Type Grab	Sample Type Comp.	Container No.	Container Type	Container Size	Container Pres.	Analysis Required	Date/Time of Collection Start	End
	CULIN		X			P	Varies	I	fecal coliform, CFU	Date: 9.3.19 Time: 11:05 am	
	91		X			P	Varies	I	"	Date: 9-3-19 Time: 11:00 am	
	5		X			P	Varies	I	"	Date: 9-3-19 Time: 10:50 am	
	7		X			P	Varies	I	"	Date: 9-3-19 Time: 10:45 am	
	8		X			P	Varies	I	"	Date: 9-3-19 Time: 10:30 am	
	71		X			P	Varies	I	"	Date: 9-3-19 Time: 9:40 am	
										Date: Time:	

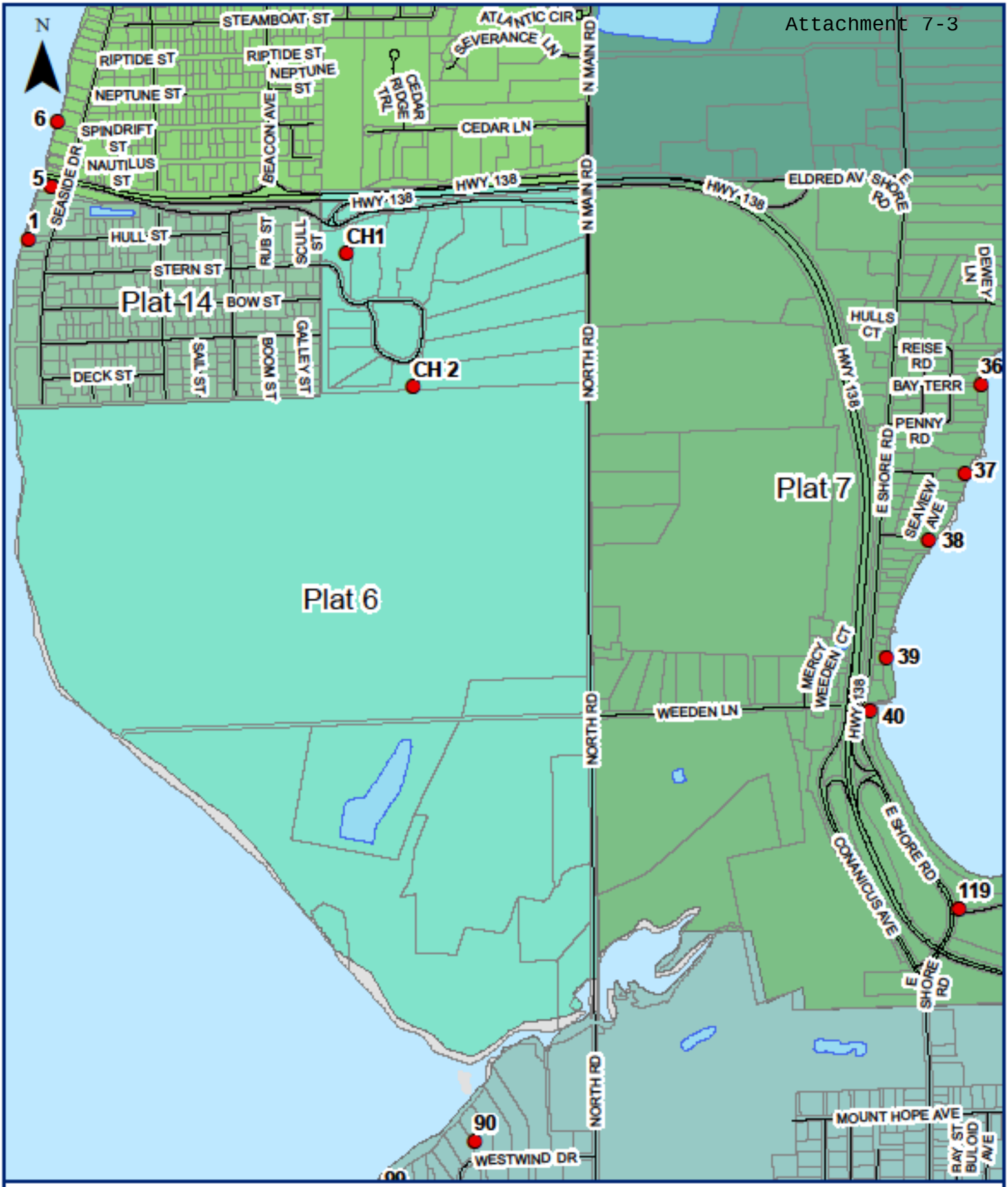
CONTAINER TYPE: P = Plastic; E = EPA Vial; C = Cube; G = Glass; A = Amber Glass; B = Bacteria
PRESERVATION CODE: I = Iced; F = Filtered; N = Nitric Acid; H = Hydrocloric Acid (HCL); S = Sodium Hydroxide (NaOH); T = Sodium Thiosulfate; O = Other/Specify

Samplers Signature	Affiliation	Date	Time	Transfers Relinquished By:	Accepted By:	Date	Time
		9/3/19					
Additional Comments:					Caroline Lowton	090319	12/6
Method of Shipment: 5.0°C		Date	Time				

Attachment 6-4


N
Plat 1
Plat 2
Plat 3
Plat 3A
SUMMIT AVE
PARK ST
FAIRVIEW ST
MIDDLE ST
N MAIN RD
SUMMER ST
BROAD ST
WICKFORD AV
PROSPECT AV
HOLLY ST
ORIENT AV
COURT ST
WINONA ST
COLLINS TERRACE
E SHORE RD
COLUMBIA LN
AMERICA WY
RANGER CT
INTREPID LN
AQUIDNECK CT
WEATHERLY CT
FLY JIB CT
SKYSAIL CT
WEST REACH DR
TOP MAST CT
CAPSTAN ST
GONDOLA AVE
SAMPAN AVE
FELUCCA AVE
DAVIT AV
SLOOP ST
SEASIDE DR
DORY ST
CATAMARAN ST
11*
11
12
13
14
15
16
19
23
24
25
26
27
28
29
30
31
32
102
103
104
105
106
107
108
109
110
116
THE TOWN OF JAMESTOWN, RI
PHASE II OUTFALL SAMPLING MAPS
Outfalls
0
590
1,180
Feet
1 inch = 1,022 feet


N
Plat 3A
Plat 16
Plat 15
Plat 5
Plat 4
Plat-14
CH1
WEST REACH DR
TOP MAST CT
FORE ROYAL CT
CAPSTAN ST
GONDOLA AVE
SAMPAN AVE
FELUCCA AVE
DAVIT AV
AMERICA WAY
AMERICA WY
NTREPID LN
AQUIDNECK CT
WEATHERLY CT
SLOOP ST
SEASIDE DR
DORY ST
BARK AVE
BRIG AV
YAWL AV
SCHOONER AVE
N MAIN RD
WRIGHT LN
CARR LN
E SHORE RD
SPANKER ST
SHIP ST
BUOY ST
PORT AVE
GARBOARD ST
BACKSTAY ST
STANCHION AVE
MIZZEN ST
BEACON AVE
MAIN AVE
BLYTHE DR
RESERVOIR CIR
SPIRKETING ST
KEEL AVE
NORMAN RD
ROSEMARY LN
FERRY ST
STEAMBOAT ST
ATLANTIC CIR
SEVERANCE LN
BEACH AVE
RIPTIDE ST
NEPTUNE ST
CEDAR RIDGE TRL
CEDAR LN
SPINDRIFT ST
NAUTILUS ST
HWY 138
ELDRED AV
E SHORE RD
HULL ST
RUB ST
SCULL ST
STERN ST
CEDAR HILL DR
BOW ST
NORTH RD
HULLS DECATUR AVE CT
DEWEY LN
THE TOWN OF JAMESTOWN, RI
PHASE II OUTFALL SAMPLING MAPS
Outfalls
0 590 1,180
Feet
1 inch = 1,030 feet



THE TOWN OF JAMESTOWN, RI
PHASE II OUTFALL SAMPLING MAPS

● Outfalls

0 590 1,180 Feet

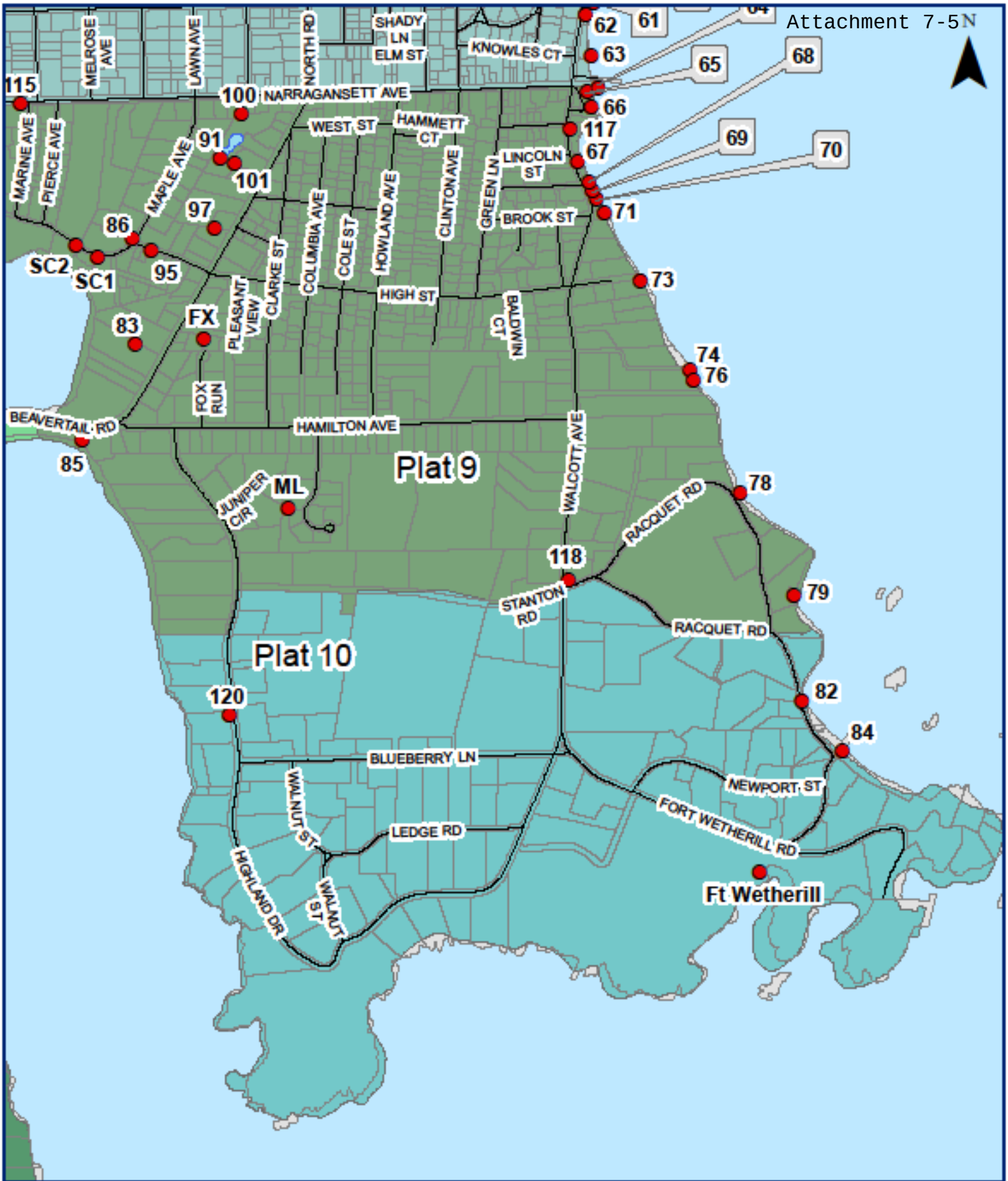
1 inch = 1,029 feet

THE TOWN OF JAMESTOWN, RI
PHASE II OUTFALL SAMPLING MAPS

● Outfalls

0 550 1,100 Feet

1 inch = 962 feet

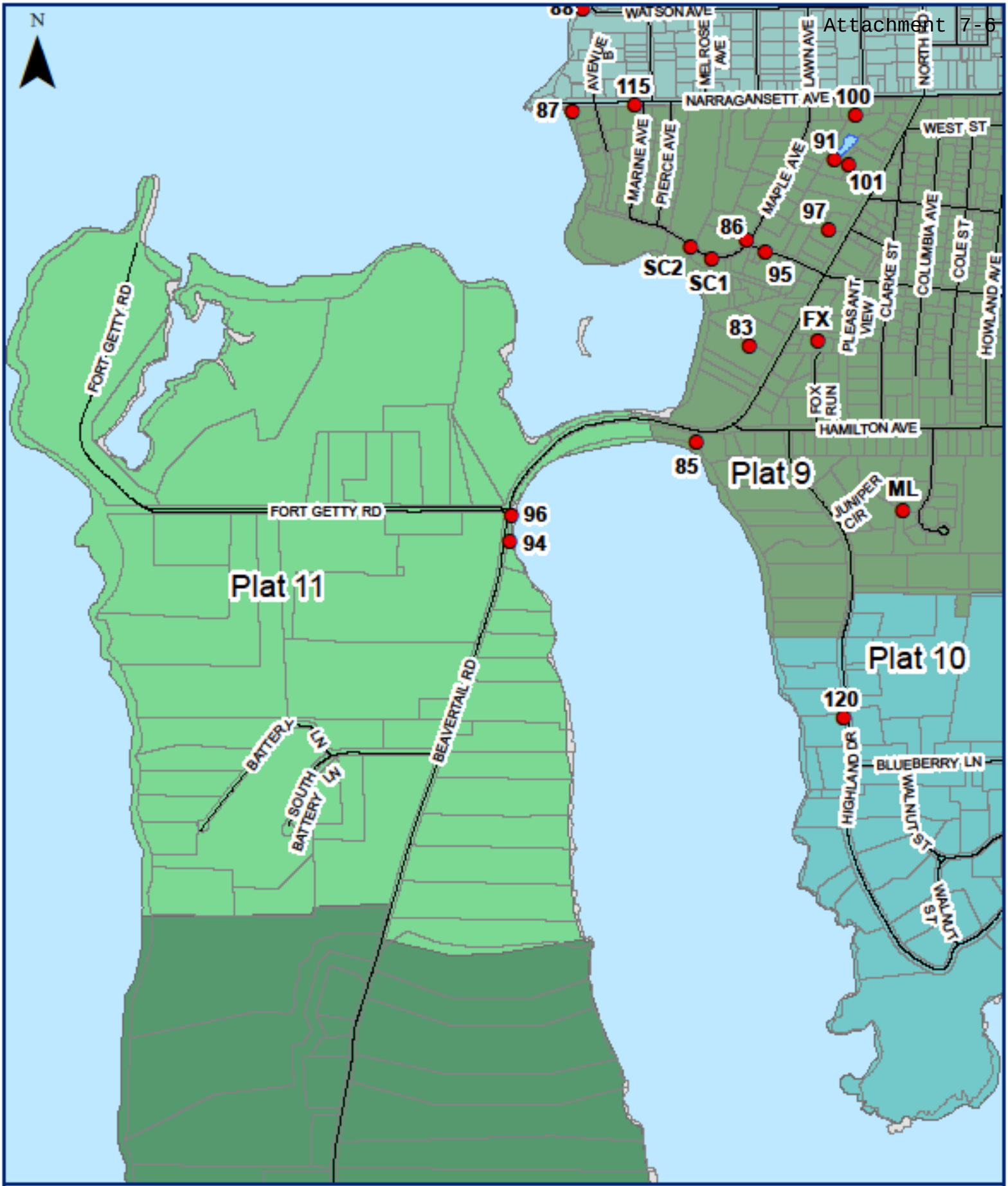


THE TOWN OF JAMESTOWN, RI
PHASE II OUTFALL SAMPLING MAPS

● Outfalls

0 550 1,100 Feet

1 inch = 962 feet

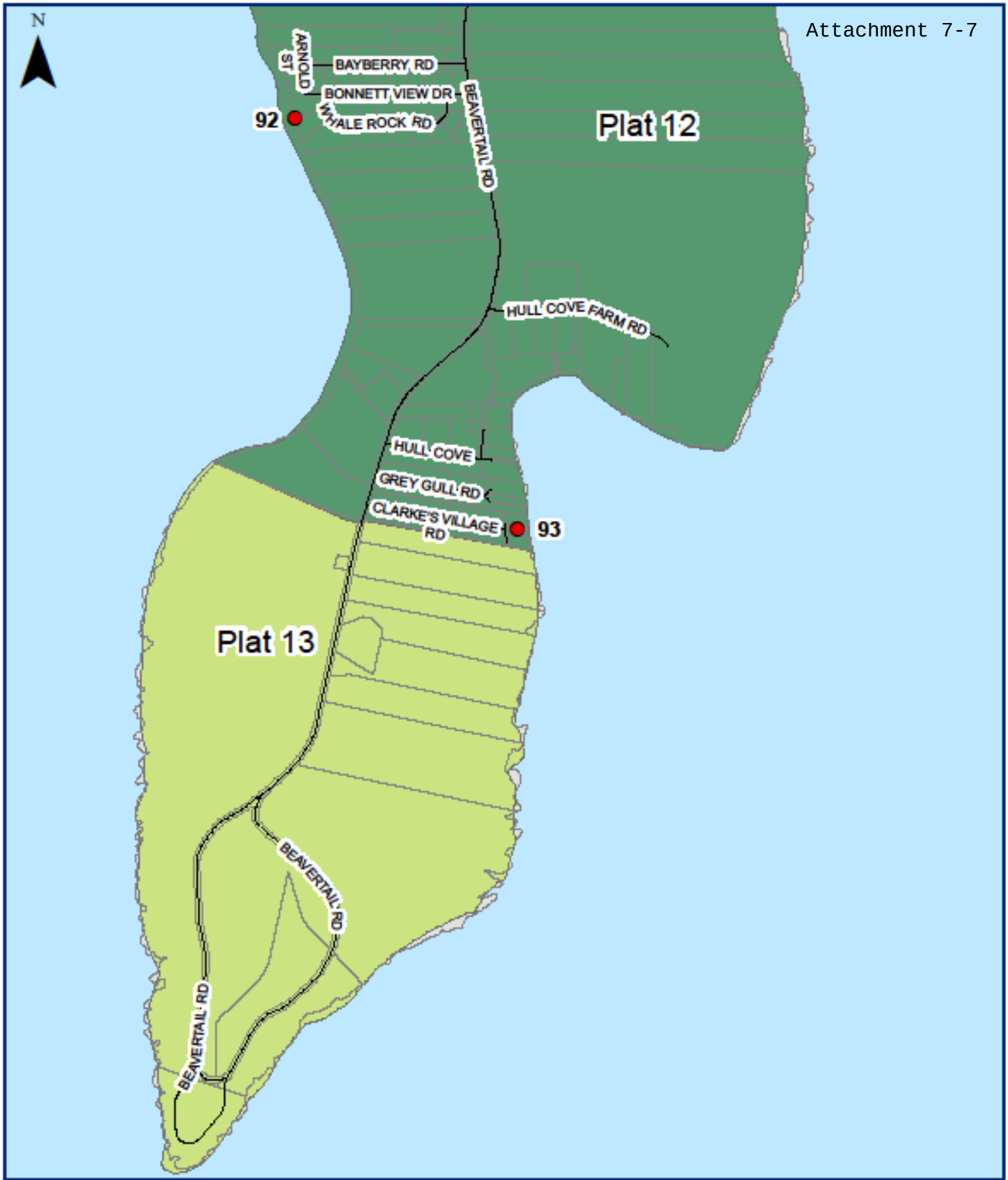


THE TOWN OF JAMESTOWN, RI
PHASE II OUTFALL SAMPLING MAPS

● Outfalls

0 550 1,100 Feet

1 inch = 962 feet



THE TOWN OF JAMESTOWN, RI
PHASE II OUTFALL SAMPLING MAPS

● Outfalls

0 550 1,100 Feet

1 inch = 962 feet

PROTECT OUR WATERS

Pet waste may not be the first pollutant that springs to mind when you think of protecting Narragansett Bay and the water surrounding Jamestown but it certainly plays a role! Leaving pet waste on your lawn, dumping it in the storm sewer, or leaving it on the sidewalk or street are all ways that you may be polluting our water resources and causing a hazard to your own health without even realizing it.

Pet waste doesn't just decompose, it adds harmful bacteria and nutrients to local water. By cleaning up after your pet, you will be doing your part to protect yourself and the environment.

THERE'S NO SUCH THING AS THE POOP FAIRY

ONLY YOU CAN MAKE YOUR PET WASTE DISAPPEAR!

TOWN OF JAMESTOWN PET WASTE
EDUCATION PROGRAM

This project was funded by an agreement (CE00A0004) awarded by the Environmental Protection Agency to the New England Interstate Water Pollution Control Commission in partnership with the Narragansett Bay Estuary Program.

NEIWPCC
New England Interstate Water Pollution Control Commission

NARRAGANSETT BAY ESTUARY PROGRAM

Only YOU Can Prevent POO-llution

BE THE SOLUTION TO STORM WATER POLLUTION!

DISPOSING OF YOUR PET'S WASTE CAN MAKE A BIG DIFFERENCE TO OUR WATERWAYS

Attachment 8-1

SCOOP IT!

WHAT'S THE PROBLEM?

When you fail to clean up after your pet, the poop left on sidewalks, streets and lawns is both unpleasant and a nuisance. But it can become an even bigger problem when it rains and is carried by stormwater into nearby ponds, marshes and waterways to Narragansett Bay. It can create a health hazard for people and can "doo" a lot of damage to the environment.

- According to the EPA, dogs can serve as hosts for up to 65 diseases that can be transmitted to humans. If left on the ground, these parasites, bacteria and viruses can contaminate the water, soil, and infect both pets and humans.
- Water that contains high levels of bacteria and other pathogens from animal waste are unfit for human contact.
- As pet waste decays, it uses up oxygen that fish and aquatic life need.
- Locally, Sheffield Cove has been closed to shellfishing since 2009 because of increased bacterial counts. Water quality sampling has shown that the bacteria can be traced back to animal waste.

BAG IT!

DID YOU KNOW?

According to the EPA, a typical dog (around 40 pounds) excretes 274 pounds of waste per year.

BE THE SOLUTION!

Picking up after your pet is part of being a responsible owner. It avoids unpleasant surprises for those that follow and prevents your pet's waste from causing water pollution and health hazards. And it's the law!

Doing the right thing is easy! Pick up after your pet every time you take them out.

ONLY YOU CAN PREVENT POO-LLUTION!

TRASH IT!

HANDY TIPS

- Put bags in the car or tie them to the leash so you'll be prepared when you travel with your pet.
- Place bags by the door so you don't forget them.
- Carry disposable bags and pick up after your pet when out on walks.
- Properly dispose of pet waste by bagging the waste and depositing it in a trash can.
- Talk to your family and friends about stormwater pollution and picking up after their pets!
- Please do not throw bagged pet waste in storm drains or leave it on the ground or toss it in the woods.
- Reuse bags that would have ended up in the trash to pick up after your pet. Ask your neighbors, coworkers and friends to collect bread or newspaper bags.

DEM RHODE ISLAND

Stormwater Management: Rhode Island General Construction Stormwater Awareness Training

SIGN IN SHEET

No	Full Name *(Print)*	Signature	Company	Date
1	Jean Lambert	Jean Lambert	Town of Jamestown	11/1/19
2	Michael Gray		Town of Jamestown	11/4/19
3	Chris Costa		Town of Jamestown	11/5/19
4	Steve Bonner		Town	11/6/19
5	Kevin Deacon	Kevin Deacon	Jamestown Hwy Dept	11/7/19
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

Submit with your DEM annual report

Jean Lambert

From: Chris Costa
Sent: Tuesday, December 3, 2019 12:40 PM
To: Jean Lambert; Michael Gray
Subject: FW: StormwaterONE: Congratulations! You Have Completed the CI213: Qualified Compliance Inspector of Stormwater (QCIS) - Rhode Island

DONE

Chris N. Costa
Jamestown
Building/Zoning Official

From: StormwaterONE <noreply@myabsorb.com>
Sent: Tuesday, December 3, 2019 12:35 PM
To: Chris Costa <ccosta@jamestownri.net>
Subject: StormwaterONE: Congratulations! You Have Completed the CI213: Qualified Compliance Inspector of Stormwater (QCIS) - Rhode Island

Congratulations Chris!

You have completed the following program:

CI213: Qualified Compliance Inspector of Stormwater (QCIS) - Rhode Island

Please note that your certificate expires on 12/02/2021 12:33:47 PM, however, we will send you a notification prior to this date.

You can login to the StormwaterONE eCampus to review your course materials at any time by going to https://stormwaterone.training/#/login.

Your certificate may be located and printed from the "My Transcripts" tab.

FREE Inspection Software!
Click Here to Get Started: *https://www.stormwaterinspect.com/stormwateroneoptin*

Thank you for your participation.

Student Support
877-257-9777
Support@StormwaterONE.com