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RIPDES SMALL MS4 ANNUAL REPORT

GENERAL INFORMATION PAGE

RIPDES PERMIT #RIR0400 00025

REPORTING PERIOD: **YEAR 15**
Jan 2018-Dec 2018

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	<input checked="" type="checkbox"/> PUB - Public	BPP - Public/Private	STA - State FED - Federal
Other (please specify):			

OWNER OF MS4 (if different from OPERATOR)

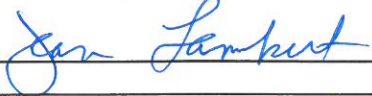
Name: same			
Mailing Address:			
City:	State:	Zip:	Phone: ()
Contact Person:		Title:	
		Email:	

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  Date 3-1-2019



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.
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A pet waste management brochure was created and distributed with dog licensing renewal mailings. The brochure is also available in Town Hall. Elementary school students created and displayed posters relating clean water and pet waste management. The program targets the pet owner population. A copy is included in the report appendix.

The Town continues to participate in education and outreach made available by RIDEM, URI and RIDOT.

The Town annually implements water conservation requirements to all households connected to the public water supply. The program is advertised in local papers.

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.
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The Jamestown Shores Tax Lot Management Plan was developed to encourage cooperation between the Conanicut Island Land Trust, the Jamestown Conservation Commission and the Jamestown Shores Association to protect undeveloped lots in the Jamestown Shores. These undeveloped lots are important in that they reduce stormwater runoff, increase groundwater recharge, protect groundwater resources, and protect freshwater wetlands. An additional 34 lots are currently being considered for easement protection.

PUBLIC EDUCATION AND OUTREACH cont'd

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)
<input type="checkbox"/> Construction Sites	
<input type="checkbox"/> Pesticide and Fertilizer Application	
<input checked="" type="checkbox"/> General Stormwater Management Information	Total Suspended Solids
<input checked="" type="checkbox"/> Pet Waste Management	Pet waste, bacteria
<input type="checkbox"/> Household Hazardous Waste Disposal	
<input type="checkbox"/> Recycling	
<input type="checkbox"/> Illicit Discharge Detection and Elimination	
<input type="checkbox"/> Riparian Corridor Protection/Restoration	
<input type="checkbox"/> Infrastructure Maintenance	
<input type="checkbox"/> Trash Management	
<input type="checkbox"/> Smart Growth	
<input type="checkbox"/> Vehicle Washing	
<input type="checkbox"/> Storm Drain Marking	
<input checked="" type="checkbox"/> Water Conservation	Surface and groundwater recharge
<input type="checkbox"/> Green Infrastructure/Better Site Design/LID	
<input type="checkbox"/> Wetland Protection	
<input type="checkbox"/> Other:	
<input type="checkbox"/> None	

Specific audiences targeted during this reporting period:

- | | |
|---|---|
| <input type="checkbox"/> Public Employees | <input type="checkbox"/> Contractors |
| <input checked="" type="checkbox"/> Residential | <input type="checkbox"/> Developers |
| <input type="checkbox"/> Businesses | <input type="checkbox"/> General Public |
| <input type="checkbox"/> Restaurants | <input type="checkbox"/> Industries |
| <input type="checkbox"/> Other: | <input type="checkbox"/> Agricultural |

Additional Measurable Goals and Activities

From the inception of this program, the Town of Jamestown staff has been working to adapt the six minimum control measures across the entire Town, not just the regulated area.

Please list all stormwater training attended by your staff during the 2018 calendar year and list the name(s) and municipal position of all staff who attended the training.

Trainings:

RIFMA, *Managing Flood Plain Development Training*, February 5-8, 2018

RIFMA, *2018 Annual Conference*, April 5, 2018

CRMC, URI, *Engineering with Nature to Protect Rhode Island Shorelines*, April 10, 2018

URI, *Sea Level Rise Training*, October 24, 2018

RIDOT, *Stormwater Manual Workshop*, November 14, 2018

Attending name of staff and title: Jean Lambert Engineering/GIS Coordinator



**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.
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- 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:

- | | |
|--|---|
| <input checked="" type="checkbox"/> Cleanup Events | <input type="checkbox"/> Storm Drain Markings |
| <input type="checkbox"/> Comments on SWMPP Received | <input type="checkbox"/> Stakeholder Meetings |
| <input type="checkbox"/> Community Hotlines | <input type="checkbox"/> Volunteer Monitoring |
| <input checked="" type="checkbox"/> Community Meetings | <input type="checkbox"/> Plantings |
| <input type="checkbox"/> Other (describe) | |

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.
- The Audubon Society conducts an annual beach cleanup in association with the Save The Bay - Swim Across the Bay Event.
- The Town Recreation Department provides and maintains trash barrels at public recreation areas and shoreline access points.

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? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	If YES, Date of Public Notice: February 2019
How was public notified: <input type="checkbox"/> List-Serve (Enter # of names in List: _____) <input checked="" type="checkbox"/> Newspaper Advertising <input type="checkbox"/> TV/Radio Notices <input type="checkbox"/> Town Hall posting <input checked="" type="checkbox"/> Website <input type="checkbox"/> Other: Enter Web Page URL: <u>www.jamestownri.gov/town-departments/public-works</u>	
Was public meeting held? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Where:
Date:	
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: ILLCIT 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.

IV.B.3.b.1:	<p>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.)</p> <p>Number of Outfalls Mapped within regulated area: <u>104</u></p> <p>Percent Complete: <u>100</u></p> <p>If 100% Complete, Provide Date of Completion: <u>2012</u></p>
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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. Several additional outfalls were identified and mapped in 2012. The updated map and excel tables were submitted with the 2012 annual report.

IV.B.3.b.2	<p>Indicate if your municipality chose to implement the tagging of outfalls activity under the IDDE minimum measure, activities and actions undertaken under the 2018 calendar year.</p>
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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	<p>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.</p>
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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 2019, 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	<p>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.</p> <p>Date of Adoption: _____</p> <p>If the Ordinance was amended in 2018, please indicate why changes were necessary.</p>
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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 2018.

ILLICIT DISCHARGE DETECTION AND ELIMINATION cont'd

IV.B.3.b.5.ii, iii, iv, & v	<p>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.</p>
<ul style="list-style-type: none"> 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	<p>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.</p> <p>Number of Catch Basins and Manholes Inspected for illicit connections/IDDE: <u>940</u></p> <p>Percent Complete: <u>100</u> %</p> <p>Date of Completion: <u>2018</u></p>
<p>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.</p>	
IV.B.3.b.5.vii	<p>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.</p> <p>Number of Outfalls Surveyed Jan-Apr: <u>104</u> Number of Outfalls Surveyed Jul-Oct: <u>104</u></p> <p>Percent Complete: <u>100</u> %</p> <p>Date of Completion: <u>2007</u></p>
<p>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.</p>	
IV.B.3.b.7	<p>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.</p>
<ul style="list-style-type: none"> 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. <p>The Town of Jamestown and RIDOT are responsible for implementation of this requirement.</p>	
IV.B.3.b.8	<p>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.</p>
<ul style="list-style-type: none"> 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 2018. 	

ILLICIT DISCHARGE DETECTION AND ELIMINATION cont'd

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 <ul style="list-style-type: none"> • 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 will be completed in spring 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 2018: 0	# of Illicit Discharges Tracked in 2018: 0
# of Illicit Discharges Eliminated in 2018: 0	# of Complaints Received: 1
# of Complaints Investigated: 1	# 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 2018: 0
Summary of Enforcement Actions: <ul style="list-style-type: none"> • 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: 90% as previously described in Section IV.B.3.b.3 above	
Total # of Outfalls Identified and Mapped to date: 104	

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	<p>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.</p> <p>Date of Adoption: <u>2005</u></p> <p>If the Ordinance was amended in 2018, 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.</p>
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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 2018. 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	<p>Use the space below to describe actions taken as a result of receipt and consideration of information submitted by the public.</p> <p>The Building Official inspects construction sites to ensure that erosion controls are in place. 30 building permits for new construction were issued in 2018. 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 2018, there were no instances that warranted a notice or sanction to insure compliance within the limits of the MS4.</p>
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IV.B.4.b.8	<p>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.</p>
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There were no construction site enforcement issues referred to the State in 2018.

Additional Measurable Goals and Activities

No additional measurable goals and activities to report.

CONSTRUCTION SITE STORMWATER RUNOFF CONTROL cont'd

SECTION II. A - Plan and SWPPP/SESC Plan Reviews during Year 15 (2018), 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: <u> 0 </u>
of Construction Reviews Completed: <u> 0 </u>
of Permits/Authorizations Issued: <u> 0 </u>
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.
Identify the type and date of training this person(s)/parties has/have received to be considered "adequately trained":
Mr. Costa has been trained through a combination of previous work experience and on the job training.

SECTION II.B - Erosion and Sediment Control Inspections during Year 15 (2018), 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: 60+	# 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 is responsible for implementation of this requirement. Site plan reviews are conducted in coordination with the Public Works Department and staff professional engineers.	
Identify the type and date of training this person(s)/parties has/have received to be considered "adequately trained":	
Mr. Costa has been trained through a combination of previous work experience and on the job training.	



**MINIMUM CONTROL MEASURE #5:
POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT
(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 two water quality basins prior to discharge to the North Reservoir. Construction commenced in 2018 and is planned for completion in 2019.

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 2018.

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 2018, 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.

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 two 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 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 and promoting the recharge of groundwater.

POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT
cont'd

SECTION II.A. - Plan and SWPPP/SESC Plan Reviews during Year 15 (2018), 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: <u>0≥1 acre</u>
of Post-Construction Reviews Completed: <u>0≥1 acre</u>
of Permits/Authorizations Issued: _____
Summary of Reviews and Findings, include an evaluation of the effectiveness of the program. Sixteen (16) applications were reviewed in 2017 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. 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 oversight 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. In addition, she plans to complete the SESC Training offered through the URI Cooperative Extension service in 2019.

SECTION II.B. - Post Construction Inspections during Year 15 (2018), 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 > 1 acre	# 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 2018.	
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": Mr. Chris Costa has been trained through a combination of previous work experience and on the job training.	

SECTION II.C. - Post Construction Inspections during Year 15 (2018), 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:	# of Complaints Received:
# of Violations Issued:	# of Unresolved Violations Referred to RIDEM:
Summary of Activities and Enforcement Actions. Evaluate the effectiveness of the Program in minimizing water quality impacts. No post-construction enforcement actions in 2018.	
Identify person(s) /Department and/or parties responsible for the implementation of this requirement: The Building Official is responsible for this requirement.	

POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT
cont'd

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

POST CONSTRUCTION STORMWATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT
cont'd

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	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
b. A description of the permanent stormwater BMPs that will be operated and maintained	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
c. The location of the permanent stormwater BMPs that will be operated and maintained	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
d. A timeframe for routine and emergency inspections and maintenance of all permanent stormwater management BMPs	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
e. A requirement that all inspections and maintenance activities are documented	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
f. Annual submission of inspection/maintenance certification/documentation to the MS4	<input type="checkbox"/> YES <input checked="" type="checkbox"/> 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	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
h. Steps available for addressing a failure to maintain the stormwater controls and BMPs	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

Please elaborate, if appropriate:

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

For privately-owned structural BMPs, does your municipality/MS4 have a system for tracking: ***see below

a. Agreements and arrangements to ensure O&M of BMPs?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
b. Inspections?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
c. Maintenance and schedules?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
d. Complaints?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
e. Non-Compliance?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
f. Enforcement actions?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO

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

If yes, please elaborate on which tools are used:

***The Town is currently developing a database of private BMP's for future oversight of maintenance and inspections.

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.



**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 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): 6

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's is currently under construction near the North Reservoir and will be placed on-line in 2019. An existing BMP at the North Reservoir is being reconstructed in 2019 to add a sediment forebay.

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 2018: 6

of MS4-owned/operated BMPs maintained/cleaned in 2018: 6

of MS4-owned/operated BMPs repaired in 2018: 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.

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

IV.B.6.b.1.iii	<p>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.</p> <p>Total # of CBs within regulated area (including SRPW and TMDL areas): <u>940</u></p> <p># of CBs inspected in 2018: <u>940</u> % of Total inspected: <u>100</u></p> <p># of CBs cleaned in 2018: <u>940</u> % of Total cleaned: <u>100</u></p> <p>Quantity of sand/debris collected by cleaning of catch basins: <u>201</u></p> <p>Location used for the disposal of debris: <u>Central Landfill</u></p> <p>Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track the inspections and cleaning of catch basins? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>A new vac-truck was put in to use in Town in 2016.</p>	
IV.B.6.b.1.iv	<p>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.</p>
<p>Town crews mow and remove vegetation so that ditches can be properly maintained.</p>	
IV.B.6.b.1.v	<p>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.</p>
<p>Annual outfall inspections are conducted and a list of outfalls in need of O&M is prepared and provided to the DPW staff.</p>	
IV.B.6.b.1.vi	<p>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.</p> <p>Total roadway miles within regulated area (including SRPW and TMDL areas): <u>24</u></p> <p>Roadway miles that were swept in 2018: <u>39</u> % of Total swept: <u>100</u></p> <p>Type of sweeper used: <input type="checkbox"/> Rotary brush street sweeper <input checked="" type="checkbox"/> Vacuum street sweeper</p> <p>Quantity of sand/debris collected by sweeping of streets and roads: <u>106</u></p> <p>Location used for the disposal of debris: <u>Central Landfill</u></p> <p>Do you use an electronic tool (e.g. GIS, database, spreadsheet) to track the annual sweeping of streets and roads? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

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.
<p>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.</p>	
IV.B.6.b.1.viii	<p>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.</p> <p>Do you have a system for tracking actions to remove and dispose of waste? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO</p>
<p>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 307 tons were removed in 2018.</p>	
IV.B.6.b.4 and IV.B.6.b.5	<p>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.</p>
<p>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.</p>	
IV.B.6.b.6	<p>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.</p> <p>How many stormwater management trainings have been provided to <i>municipal employees</i> during this reporting period? <u> 0 </u></p> <p>What was the date of the last training? <u> </u>/<u> </u>/<u> </u></p> <p>How many <i>municipal employees</i> have been trained in this reporting period? <u> </u></p> <p>What percent of <i>municipal employees</i> in relevant positions and departments received stormwater management training? <u> 100 </u>%</p> <p>Have <i>municipal employees</i> that are responsible for inspecting or cleaning catch basins also been trained to detect and report illicit connections or non-stormwater discharges?</p> <p>Yes, and the Director of Public Works oversees these employees and provides training as needed. Initial inspections were conducted under strict supervision of DPW. For subsequent inspections, employees have been trained by the DPW to note any new changes to the structure and piping.</p>
<p>DPW and Engineering Departments have participated in URI NEMO Program.</p> <p>The drainage system for the highway garage and salt storage facility is maintained annually.</p> <p>Maintenance of parks and open space is overseen by the Parks and Recreation Director. Maintenance of the town fleet and buildings is overseen by the Public Works Director.</p>	

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

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.	
<p>Additional Measurable Goals and Activities 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. Project will be 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.</p> <p>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. Additional water quality sampling is planned for 2019.</p>	

SECTION II.A - Structural BMPs (Part IV.B.6.b.1.i)

BMP ID:	Location:	Name of BMP Owner/Operator:	Description of BMP:	Frequency of Inspection:
POND 1	North Main Road/North Reservoir	Town of Jamestown	Detention Pond	Annual
POND 2	North Main Road/North Reservoir	Town of Jamestown	Detention Pond	Annual
POND 3	West Reach Development	Privately Owned/ Town Maintained	Detention Pond	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

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:

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).

<p>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 will commenced in 2018 and will be 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 is under construction and one existing basin will be reconstructed with a sediment forebay addition.</p> <p>The overflow structure for POND2 in West Reach was reconstructed in 2017.</p>

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

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).

The Sheffield Cove water quality treatment project was designed by ESS Group, Inc. starting in 2015. ESS completed the design and permitting for an innovative stormwater treatment system that includes a combination of bioretention and sand filtration to treat the stormwater impacted by the fecal coliforms before it is discharged to Sheffield Cove. The sand filtration system installation was completed in December 2017. Sampling was completed in 2018 and the final report submitted to NEIWPC. Additional water quality sampling to determine the effectiveness of the installation is planned for 2019.



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:	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?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> 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?	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> 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:	
Has the MS4 installed stormwater BMPs to address impairments? <input type="checkbox"/> YES <input type="checkbox"/> 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?
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.):			
***N/A There is no approved TMDL for any Jamestown water bodies.			
In 2011, Jamestown Brook was listed on the statewide bacteria TMDL List for exceedances of Iron, Lead, Copper and pathogens.			
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.			



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>

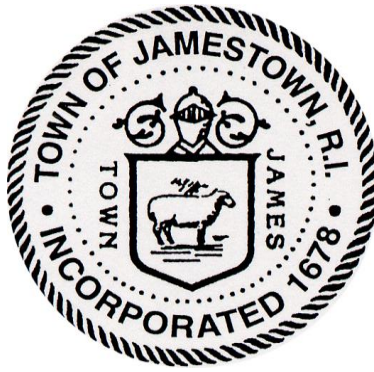
If you have discharges from your MS4 (regardless of its location) to any of the listed SRPWs or impaired waters (including impaired waters when a TMDL has not been approved), please provide an assessment of the progress towards expanding the MS4 Phase II Stormwater Program to include the discharges to 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.

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

2018 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



TOWN OF JAMESTOWN

Public Notice

Draft 2018 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.

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



RIRRC Municipal Customer Monthly Summary: Jamestown - January 2019

Municipal Cap Summary:

For the current fiscal year, as of January 31 2019, Jamestown has tipped 1,205 refuse tons (67.2%) of its 1,792 ton cap, and has delivered 578 tons of recyclables to the Materials Recycling Facility, for a MRF Recycling Rate of 32.4%.

13 Month Material Summary By Customer Account:

Material (Code): Account	Jan-2018	Feb-2018	Mar-2018	Apr-2018	May-2018	Jun-2018	Jul-2018	Aug-2018	Sep-2018	Oct-2018	Nov-2018	Dec-2018	Jan-2019	12 Month Total
Transactions Measured in Tons														
Municipal Cap Wastes	165	152	152	151	185	193	208	205	181	169	174	133	134	2,037
MUNICIPAL WASTE (201): JAME471693	165	152	152	151	185	193	208	205	181	169	174	133	134	2,037
MRF Recycling	68	53	61	63	83	82	98	103	73	76	82	74	71	921
MUNICIPAL SINGLE STREAM RECYCLABLES (714): JAME470693	68	53	61	63	83	82	98	103	73	76	82	74	71	921
Other Wastes	7	-7	0	19	103	0	0	0	0	0	0	0	201	315
COMMERCIAL WASTE - w TIP FACILITY CHARG (151): JAME471693	7	-7	0	0	0	0	0	0	0	0	0	0	0	-7
SLUDGE/GRIT/RAGS (314): JAME471693	0	0	0	0	14	0	0	0	0	0	0	0	0	14
ALT. CVR. SCREENED STREET SWEEPINGS (355): JAME471693	0	0	0	18	88	0	0	0	0	0	0	0	201	307
ENVIRONMENTAL/LITTER CLEAN-UP (401): JAME471693	0	0	0	1	0	0	0	0	0	0	0	0	0	1
Compostables	0	0	0	0	0	0	0	0	9	0	10	0	0	20
LEAFYARD DEBRIS (312): JAME471693	0	0	0	0	0	0	0	0	9	0	0	0	0	9

THE TOWN OF JAMESTOWN, RI - 2018 STREET SWEEPING LIST

<u>Street Name</u>	<u>Date Swept</u>
West Reach Drive	4/2/18
America Way	4/2/18
Intrepid Lane	4/4/18
Freebody Drive	4/4/18
Severance Lane	4/4/18
Columbia Lane	4/5/18
Holmstead Court	4/5/18
Collins Terrace	4/5/18
Wildflower Lane	4/5/18
Court Street	4/5/18
Orient Avenue	4/5/18
Clinton Street	4/5/18
Broad Street	4/5/18
Park Street	4/6/18
North Road	4/6/18
Summit Avenue	4/6/18
Capstan Street	4/9/18
Davit Avenue	4/9/18
Conanicus Avenue	4/10/18
Knowles Court	4/10/18
Holmes Court	4/10/18
Coronado Street	4/10/18
Cross Street	4/10/18

2018 Street Sweeping Record

THE TOWN OF JAMESTOWN, RI - 2018 STREET SWEEPING LIST

Grinnell Street	4/10/18
Shady Lane	4/10/18
Harriet Street	4/10/18
Plymouth Road	4/10/18
Country Club	4/17/18
Library	4/17/18
Fowler Street	4/17/18
Valley Street	4/17/18
Douglas Street	4/17/18
Swinburne Street	4/17/18
Luther Street	4/17/18
Watson Avenue	4/17/18
Melrose School	4/18/18
Lawn Ave School	4/18/18
Watson Avenue	4/18/18
Melrose Avenue	4/18/18
West Passage Drive	4/18/18
Lawn Avenue	4/19/18
Pemberton Avenue	4/20/18
Arnold Avenue	4/20/18
Westwind Drive	4/20/18
Washington Street	4/20/18
Ocean Avenue	4/20/18
Marine Avenue	4/20/18
Pierce Avenue	4/20/18

2018 Street Sweeping Record

THE TOWN OF JAMESTOWN, RI - 2018 STREET SWEEPING LIST

Spring Street	4/23/18
Maple Avenue	4/23/18
Clarke Street	4/23/18
Columbia Avenue	4/23/18
Cole Street	4/23/18
Howland Avenue	4/23/18
Pardon Tucker Place	4/24/18
Clinton Avenue	4/24/18
Green Lane	4/24/18
Lincoln Street	4/24/18
Friendship Street	4/24/18
Brook Street	4/24/18
Union Street	4/24/18
West Street	4/25/18
Hammett Court	4/25/18
Windsor Street	4/25/18
Pleasant View Avenue	4/25/18
High Street	4/25/18
Meadow Lane	4/25/18
Fox Run	4/25/18
Blueberry Lane	4/26/18
Juniper Circle	4/26/18
Highland Drive	4/26/18
Fort Wetherill Road	4/30/18
Racquet Road	5/2/18

2018 Street Sweeping Record

THE TOWN OF JAMESTOWN, RI - 2018 STREET SWEEPING LIST

Stanton Road	5/2/18
Fort Getty Road	4/20/18
Battery Lane	5/3/18
Bayberry Road	5/3/18
Bonnet View Drive	5/3/18
East Ferry Square	5/3/18
Whale Rock Road	5/7/18
Bayview Drive	5/7/18
Mount Hope Avenue	5/7/18
Buloid Avenue	5/7/18
Harbor Street	5/8/18
Bay Street	5/8/18
Davis Street	5/8/18
Pennsylvania Avenue	5/8/18
Calvert Place	5/8/18
Narragansett Avenue	5/24/18
Baptist Church	5/24/18
North Road	5/24/18
Watson Avenue	5/24/18
Water Plant	5/24/18
Weeden Lane	5/24/18
Mercy Weeden Lane	5/24/18
Cedar Lane	5/24/18
Playground Parking Lot	5/25/18
Marcello Drive	5/29/18

2018 Street Sweeping Record

THE TOWN OF JAMESTOWN, RI - 2018 STREET SWEEPING LIST

Bay Terrace	5/29/18
Hull Court	5/29/18
Dewey Lane	5/29/18
Decatur Avenue	5/29/18
Reservoir Circle	5/29/18
Wright Lane	5/29/18
Bridgeview Drive	5/29/18
Aquidneck Court	5/29/18
Sloop Street	5/30/18
Davit Avenue	5/30/18
Felucca Avenue	5/30/18
Sampan Avenue	5/30/18
Gondola Avenue	5/30/18
Schooner Avenue	5/30/18
Beacon Avenue	5/31/18
Dory Street	5/31/18
Lugger Street	5/31/18
Cutter Street	5/31/18
Umiak Avenue	5/31/18
Champlin Way	5/31/18
Catamaran Street	5/31/18
Capstan Street	5/31/18
Rosemary Lane	6/1/18
Laurel Lane	6/1/18
Carr Lane	6/6/18

2018 Street Sweeping Record

THE TOWN OF JAMESTOWN, RI - 2018 STREET SWEEPING LIST

Frigate Street	6/7/18
Fellucca Avenue	6/7/18
Sampan Avenue	6/7/18
Gondola Avenue	6/7/18
Schooner Avenue	6/7/18
Port Avenue	6/7/18
Garboard Street	6/8/18
Top of the Mark Drive	6/8/18
Starboard Avenue	6/8/18
Nun Avenue	6/8/18
Spanker Street	6/8/18
Dolphin Street	6/8/18
Ship Street	6/8/18
Keel Avenue	6/11/18
Riptide Street	6/11/18
Norman Road	6/11/18
Port Avenue	6/11/18
Neptune Street	6/11/18
Spindrift Street	6/11/18
Nemo Way	6/11/18
Nautilus Street	6/11/18
Spirketing Street	6/11/18
Spar Street	6/11/18
Stanchion Street	6/12/18
Mizzen Avenue	6/12/18

2018 Street Sweeping Record

THE TOWN OF JAMESTOWN, RI - 2018 STREET SWEEPING LIST

Bow Street	6/22/18
Scull Street	6/22/18
Rub Street	6/22/18
Cedar Hill	6/22/18
Stern Street	6/22/18
Hull Street	6/22/18
Steamboat Street	6/22/18
Ferry Street	6/22/18
Beach Street	6/22/18
Seaside Drive	6/25/18
Mast Street	6/25/18
Boom Street	6/25/18
Galley Street	6/25/18
Sail Street	6/25/18
Jib Street	6/25/18
Net Street	6/25/18
Deck Street	6/25/18
Beach Avenue	6/25/18
Helm Street	6/25/18

2018 Street Sweeping Record



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 C808089**. 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 A036
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



CERTIFICATE OF ANALYSIS

Client: Jamestown Water
Client Project ID: Outfall Sampling

Work Order Number: C808089
Date Received: 8/8/2018 1:06:00PM

Microbiology

Client Sample ID: Cul Out

BAL Sample ID: C808089-01	Matrix: Surface Water	Sampled: 08/08/18 11:00			
<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Method</u>
Fecal Coliform	360	CFU/100mL	08/08/18 13:30	HTG	9222D

Client Sample ID: 86

BAL Sample ID: C808089-02	Matrix: Surface Water	Sampled: 08/08/18 11:05			
<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Method</u>
Fecal Coliform	120	CFU/100mL	08/08/18 13:30	HTG	9222D

Client Sample ID: Filter Sub

BAL Sample ID: C808089-03	Matrix: Surface Water	Sampled: 08/08/18 11:10			
<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Method</u>
Fecal Coliform	9	CFU/100mL	08/08/18 13:30	HTG	9222D

Client Sample ID: 1

BAL Sample ID: C808089-04	Matrix: Surface Water	Sampled: 08/08/18 11:15			
<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Method</u>
Fecal Coliform	3600	CFU/100mL	08/08/18 13:30	HTG	9222D

Client Sample ID: 34

BAL Sample ID: C808089-05	Matrix: Surface Water	Sampled: 08/08/18 12:00			
<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Method</u>
Fecal Coliform	1400	CFU/100mL	08/08/18 13:30	HTG	9222D

Client Sample ID: 71

BAL Sample ID: C808089-06	Matrix: Surface Water	Sampled: 08/08/18 12:15			
<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Method</u>
Fecal Coliform	TNTC	CFU/100mL	08/08/18 13:30	HTG	9222D



CERTIFICATE OF ANALYSIS

Client: Jamestown Water
Client Project ID: Outfall Sampling

Work Order Number: C808089
Date Received: 8/8/2018 1:06:00PM

Notes and Definitions

Z-02 TNTC
MF Membrane Filtration
MPN Most Probable Number
TNTC Too Numerous to Count
dry Sample results reported on a dry weight basis

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

PROJECT NAME: AUGUST DRY WEATHER/RIPDES

LOCATION: JAMESTOWN R1

NUMBER: C808089

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			Analysis Required	Date/Time of Collection	
					No.	Type	Size		Pres.	Start
01	CUL OUT	O	X		P	VARIES	I	FECAL COLIFORM	CFU	Date: 8-18-18 Time: 11:00 AM
02	86	O	X		P	VARIES	I	FECAL COLIFORM	CFU	Date: 8-18-18 Time: 11:05 AM
03	FILTER-SUB	O	X		P	VARIES	F	FECAL COLIFORM	CFU	Date: 8-18-18 Time: 11:10 AM
04	1	O	X		P	VARIES	I	FECAL COLIFORM	CFU	Date: 8-18-18 Time: 11:15 AM
05	34	O	X		P	VARIES	I	FECAL COLIFORM	CFU	Date: 8-18-18 Time: 12:00 PM
06	71	O	X		P	VARIES	I	FECAL COLIFORM	CFU	Date: 8-18-18 Time: 12:15 PM

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 = Hydrochloric Acid (HCL)
 S = Sodium Hydroxide (NaOH) T = Sodium Thiosulfate O = Other/Specify

Samplers Signature	Affiliation	Date	Time	Transfers Relinquished By:	Accepted By:	Date	Time
<i>Ken Jambard</i>	Town of Jamestown	8-18		<i>[Signature]</i>	Hammily	8-18-18	
Additional Comments: Sample 04 was short sample in 50mL							
Method of Shipment: -0.4°C							



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 C810115**. 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

A handwritten signature in black ink, appearing to read "Laurel Stoddard".

Laurel Stoddard
Laboratory Director

RI Laboratory License Number: RI A036
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

The Microbiology Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client: Jamestown Water
 Client Project ID: Outfall Sampling
 DRY WEATHER

Work Order Number: C810115
 Date Received: 10/10/2018 1:42:00PM

Microbiology

Client Sample ID: Cul In

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Method</u>
Fecal Coliform	80	CFU/100mL	10/10/18 15:00	GSG	9222D

Client Sample ID: 86

<u>Analyte</u>	<u>Result</u>	<u>Units</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Method</u>
Fecal Coliform	110	CFU/100mL	10/10/18 15:00	GSG	9222D



BAL Laboratory

The Microbiology Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

Client: Jamestown Water
Client Project ID: Outfall Sampling

Work Order Number: C810115
Date Received: 10/10/2018 1:42:00PM

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

PROJECT NAME:

LOCATION:

NUMBER:

SHEFFIELD COVE DRY WEATHER MAPLE AVE JAMESTOWN RI 02911

Source Code:
 W = Well
 LF = Landfill

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 Comp.	Container			Analysis Required	Date/Time of Collection			
				No.	Type	Size		Pres.	Start	End	
	CUL IN	0	X	500 mL	P	VARIES	I	FECAL COLIFORM	CFU	Date: 10.10.18 Time: 1:00 pm	
	80	0	X	500 mL	P	VARIES	I	FECAL COLIFORM	CFU	Date: 10.10.18 Time: 1:00 pm	
										Date: Time:	
										Date: Time:	
										Date: Time:	
										Date: Time:	
										Date: Time:	
										Date: Time:	
										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 = Hydrochloric Acid (HCL) S = Sodium Hydroxide (NaOH) T = Sodium Thiosulfate O = Other/Specify											
Samplers Signature		Affiliation		Date	Time	Transfers Relinquished By:		Accepted By:		Date	Time
<i>Jean Lambert</i>		Town of Jamestown		10/10/18	1:43	<i>Jean Lambert</i>		<i>Pat</i>		10/17/18	
Additional Comments:											
Method of Shipment:											
<i>2.0°C</i>											



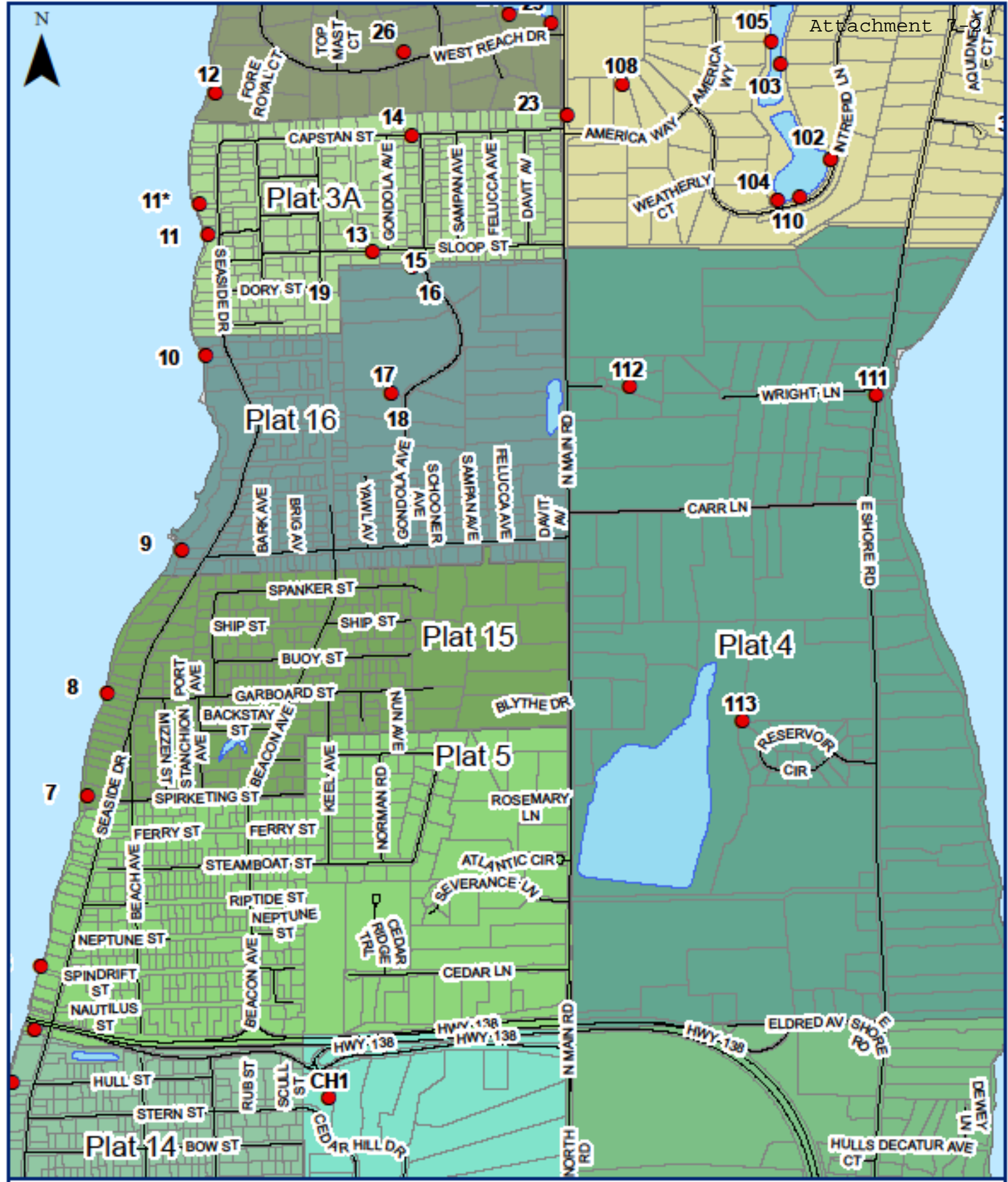
**THE TOWN OF JAMESTOWN, RI
PHASE II OUTFALL SAMPLING MAPS**

● Outfalls

0 500 1,180
Feet

1 inch = 1,022 feet

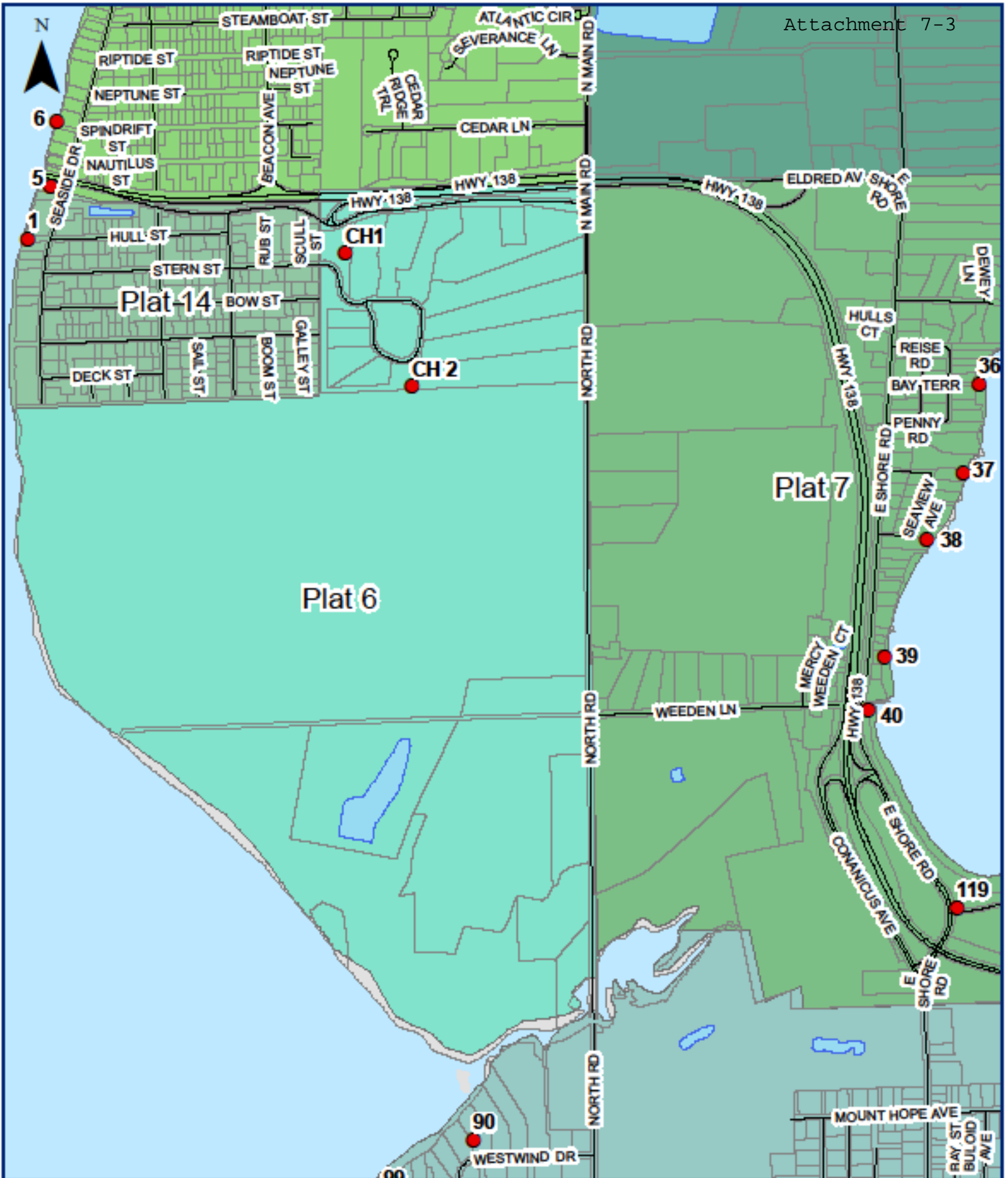




THE TOWN OF JAMESTOWN, RI PHASE II OUTFALL SAMPLING MAPS

● Outfalls
 0 500 1,180
Feet
1 inch = 1,030 feet





THE TOWN OF JAMESTOWN, RI PHASE II OUTFALL SAMPLING MAPS

● Outfalls

0 500 1,180 Feet

1 inch = 1,029 feet



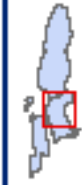


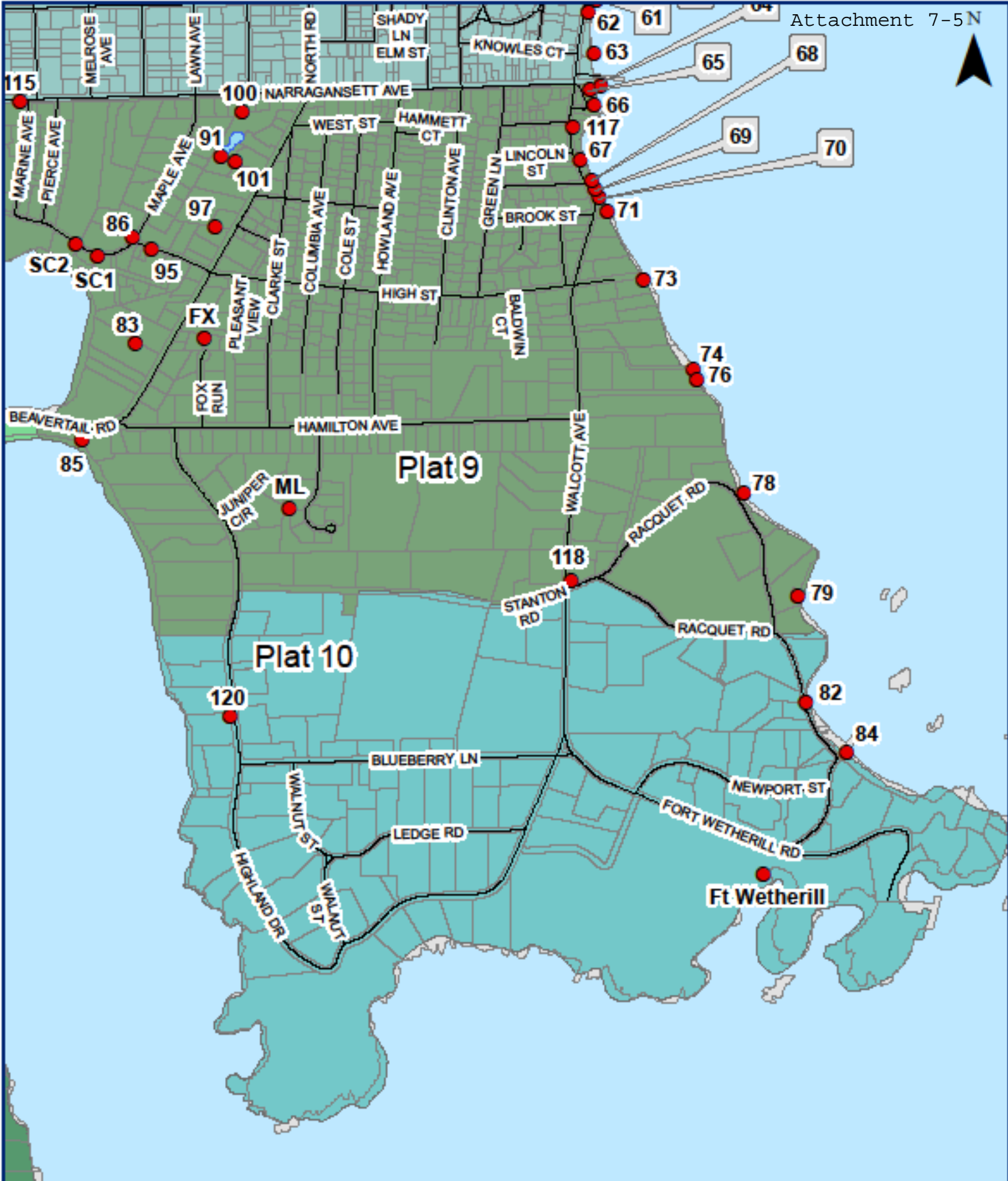
**THE TOWN OF JAMESTOWN, RI
PHASE II OUTFALL SAMPLING MAPS**

● Outfalls

0 550 1,100 Feet

1 inch = 962 feet



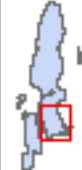


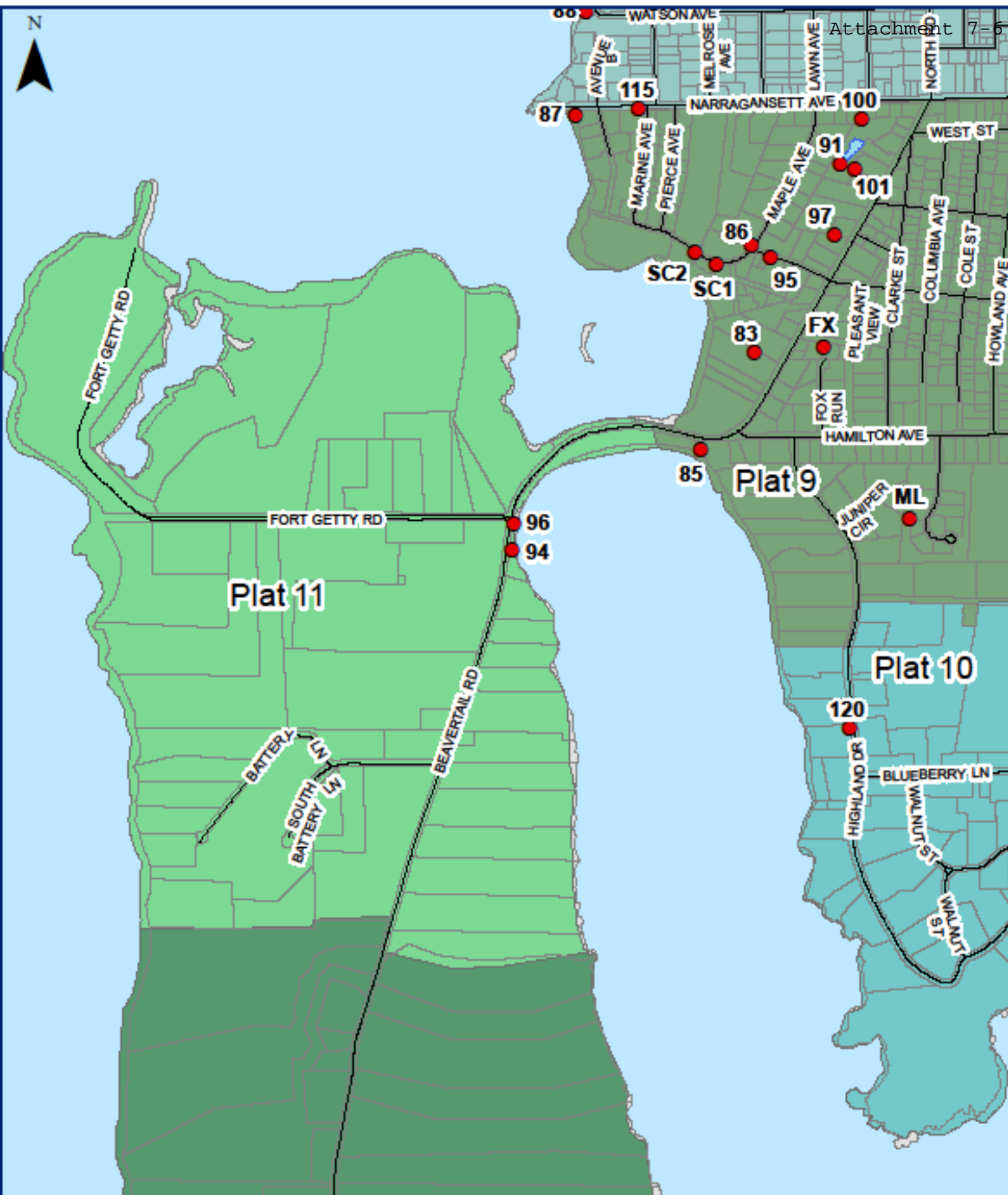
**THE TOWN OF JAMESTOWN, RI
PHASE II OUTFALL SAMPLING MAPS**

● Outfalls

0 550 1,100
Feet

1 inch = 962 feet

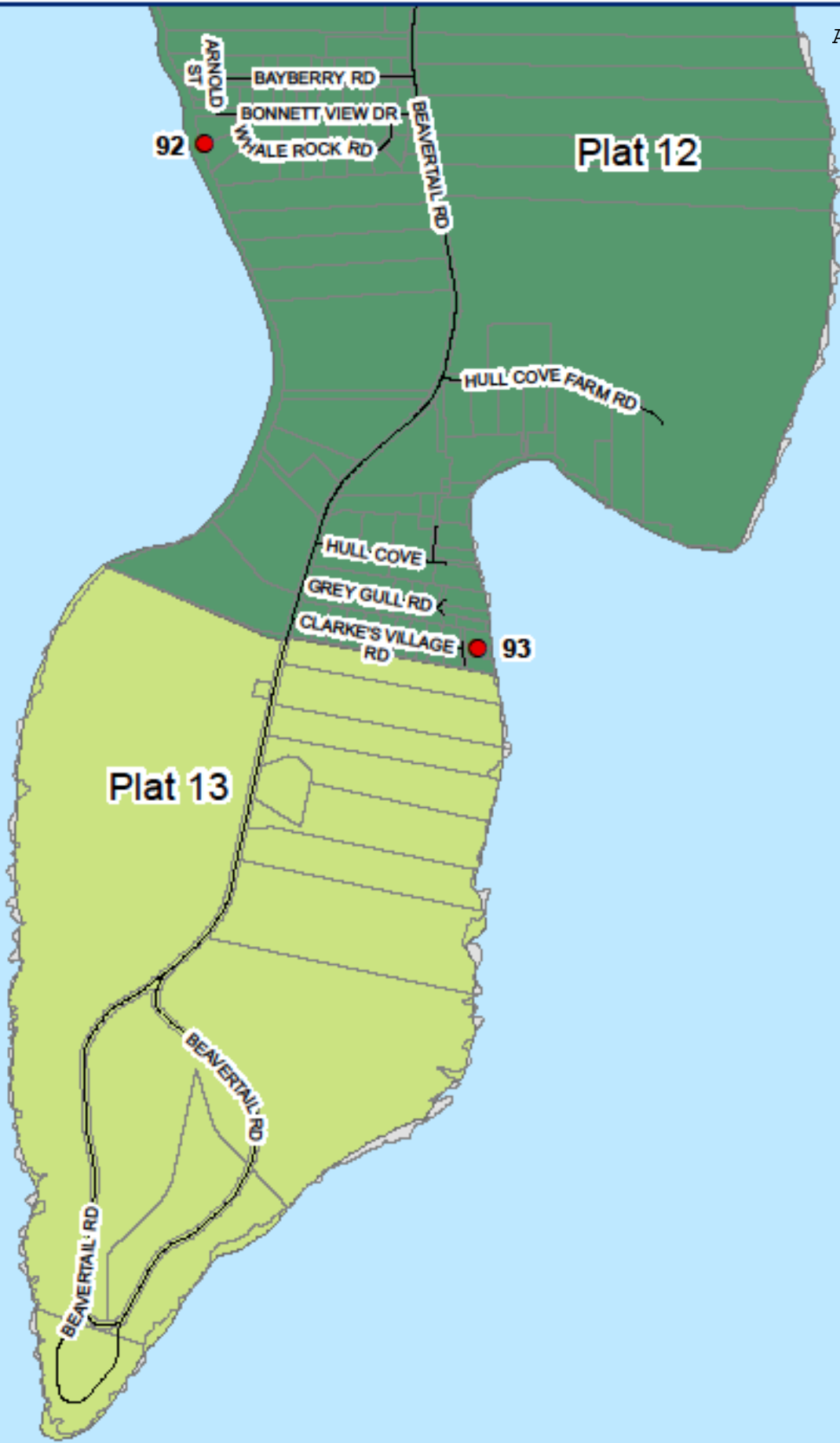




**THE TOWN OF JAMESTOWN, RI
PHASE II OUTFALL SAMPLING MAPS**

● Outfalls
 0 550 1,100 Feet
 1 inch = 962 feet





Plat 13

Plat 12

92

93

**THE TOWN OF JAMESTOWN, RI
PHASE II OUTFALL SAMPLING MAPS**

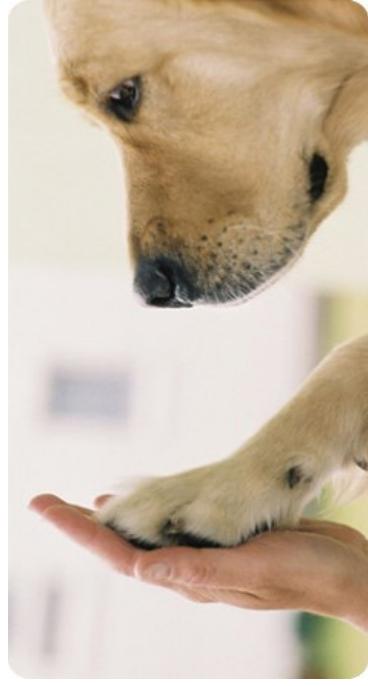
● Outfalls

0 550 1,100
Feet

1 inch = 982 feet



Only YOU Can Prevent POO-llution



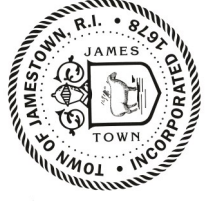
BE THE SOLUTION TO STORM WATER POLLUTION!
DISPOSING OF YOUR PET'S WASTE CAN MAKE A BIG DIFFERENCE TO OUR WATERWAYS

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.



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.



SCOOP IT!

BAG IT!

TRASH IT!

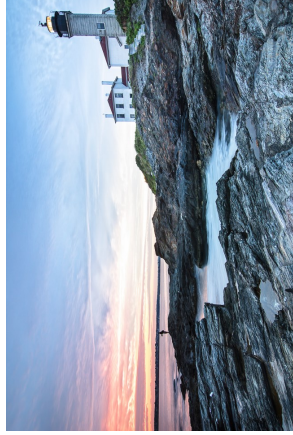
WHAT'S THE PROBLEM?

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 near-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.

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!

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.

