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RIPDES SMALL MS4 ANNUAL REPORT GENERAL INFORMATION PAGE

RIPDES PERMIT # RIR040018

REPORTING PERIOD: **X** YEAR 4
 Jan 07-Dec 07

OPERATOR OF MS4

Name: Town of Bristol			
Mailing Address: 10 Court Street			
City: Bristol	State: RI	Zip: 02809	Phone: (401) 253-7000
Contact Person: Edward M. Tanner		Title: Principal Planner	
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:			
Mailing Address:			
City:	State:	Zip:	Phone: ()
Contact Person:		Title:	

CERTIFICATION

<p>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.</p>	
Print Name	<u>Diane C. Mederos</u>
Print Title	<u>Town Administrator</u>
Signature	_____ Date _____



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

SECTION I. MEASURABLE GOALS: (For shaded areas, please provide descriptions of ongoing activity in SECTION II.)

A. REQUIRED MEASURABLE GOALS:				
Permit ID#	BMP ID	List Measurable Goal	Date(s) Completed	If goal was NOT met, briefly list reasons, current status, plans and new date for meeting the goal
IV.B.1.b.1	1-1	Implementation of activities undertaken to educate the community about storm water issues. (ONGOING)		PLEASE COMPLETE UNDER SECTION II.
IV.B.1.b.2	1-1	Implementation of public education activities to involve the community in the storm water program (indicate if activities were undertaken by permittee or other entities) (ONGOING)		PLEASE COMPLETE UNDER SECTION II.
B. ADDITIONAL MEASURABLE GOALS:				
		Commitment to the Stormwater Education and Outreach Program through URI NEMO (OPTIONAL - DUE MARCH 2007)	3/9/2007	
		Attendance at the following trainings: <input type="checkbox"/> 4/24/2007 Making an Impact with LID <input type="checkbox"/> 5/10/2007 TR-55 for Plan Reviewers <input checked="" type="checkbox"/> 12/12/2007 DPW Employee Training		List name(s) of attendee(s) at each training: Two representatives from Town of Bristol Department of Public Works (DPW) attended the training on 12/12/2007: Fred Serbst, DPW director and James Sylvester, DPW Foreman.
IV.B.1.b.1 & 5	1-2	Create a storm water section on the Town's website with storm water related links (2 nd year)	Summer 2006	
IV.B.1.b.1 & 5	1-3	Develop one flyer related to the Town's Pet Waste Ordinance and at least three fact sheets related to storm water and make them available to the public (3 rd year)		The town distributed three fact sheets related to storm water. A flyer related to the Town's Pet Waste Ordinance has not been developed. The Town of Bristol plans to develop a flyer related to the Town's Pet Waste Ordinance in year 5.
IV.B.1.b.1 & 5	1-4	Provide at least one storm water related article to the local newspaper (Bristol Phoenix) (3 rd year)	January 2006	

	1-5	The Storm Water Committee will develop a list of target pollutants (1 st year)		The Town of Bristol is researching pollutants during Year 5.
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SECTION II. OVERALL EVALUATION:

<p>GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:</p>
<p>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.</p>
<p>(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)</p>
<p>IV.B.1.b.1</p> <p>The Town Planner is responsible for achieving this goal. Besides a workshop held as part of the Silver Creek Watershed Drainage Study, public education information was provided by various community groups including Kickemuit River Council, Save Bristol Harbor, Save the Bay, and Mosaico Community Development Corporation. Public education has been centered around stormdrain stenciling and a few workshops have taken place. In April 2006, we distributed soil erosion and sediment control brochures and posters from EPA to all builders, contractors and engineers working in town. These were sent along with a package of information about the newly adopted Soil Erosion, Runoff and Sediment Control Ordinance. We have distributed more brochures at Town Hall and DPW where people involved in construction projects would be likely to find them. In 2007, a workshop held as part of the Silver Creek Watershed Drainage Study centered around identifying locations of flooding within the watershed. The audience targeted in this workshop was the citizens that lived in the Silver Creek Watershed. After the study was completed, the results of the study were presented to town council. In 2008 (Permit Year 5), the Town of Bristol plans to continue to work with various community groups to achieve this goal.</p>
<p>IV.B.1.b.2</p> <p>The Town Planner is responsible for achieving this goal. The Town of Bristol also utilized activities and membership of the Kickemuit River Council, Save Bristol Harbor, Save the Bay, and Mosaico Community Development Corporation to assist with achieving these goals. One volunteer provided 250 hours of cleaning the Bristol Harbor shoreline. In addition, Mosaico Community Development worked with the fourth graders who marked storm drains and cleaned the shoreline through the "Sense of Pride" program. This program logged 194 volunteer hours with approximately 100 storm drain markers installed in 2007. Save the Bay worked with 13 students from Mt. Hope High School on a shoreline cleanup at Mt. Hope Farm. This cleanup lasted 2.5 hours. Some other volunteer shoreline cleanups were done in Permit Year 4 by Save the Bay. In Permit Year 5, the Town of Bristol plans to continue to work with various community groups to achieve this goal.</p>

Additional Measurable Goals and Activities

On March 9, 2007, the Town of Bristol amended the Notice of Intent by committing to participate in the Storm Water Education and Outreach Program. Through a cooperative agreement with University of Rhode Island (URI), the Town plans to share in the implementation of the public education and outreach program.

BMP ID 1-2: The town website (www.bristolri.us) has a webpage labeled "Soil Erosion and Storm Water Management" This webpage provides a link to the Soil Erosion and Runoff Control Ordinance and the Application Form and Instructions. A paragraph explains the importance and benefits of soil erosion and storm water management. In 2008 (Permit Year 5), the Town plans on adding more information to this section of the web site including links to DEM, EPA and URI-NEMO web sites. The Town plans on researching other fact sheets and brochures that can be added to the website. The Town is also considering providing a link to the Pet Waste Ordinance on the webpage.

BMP ID 1-3: A flyer related to the Town's Pet Waste Ordinance has not been developed; however the Pet Waste Ordinance is enforced. In 2007, the animal control officer issued some violations/tickets with regard to the Pet Waste Ordinance. Three brochures were obtained from EPA and distributed to all builders, contractors and engineers working in town in 2006. The brochures are: "After the Storm, A Citizens Guide to Understanding Stormwater", "Clean Water Everybody's Business" bookmarks with 10 tips to prevent stormwater runoff pollution, and a large wall poster depicting proper soil erosion and sediment control techniques. The brochures are also available at the Town Hall and DPW where people involved with construction projects would be likely to find them.

BMP ID 1-4: There was an article in the paper when the soil erosion runoff and sediment control ordinance was adopted in January 2006.

BMP ID 1-5: The Town of Bristol has formed a list of pollutants throughout years 3-5. The target pollutants are pet waste, water fowl, auto fluids, and fertilizer. In permit year 5 (2008), the Town of Bristol plans on developing flyers for the target pollutants.



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

SECTION I. MEASURABLE GOALS: (For shaded areas, please provide descriptions of ongoing activity in SECTION II.)

A. REQUIRED MEASURABLE GOALS:				
Permit ID#	BMP ID	List Measurable Goal	Date(s) Completed	If goal was NOT met, briefly list reasons, current status, plans and new date for meeting the goal
IV.B.2.b.2.ii	2-1	Implementation of public involvement activities and description of groups engaged (ONGOING)		PLEASE COMPLETE UNDER SECTION II.
IV.B.2.b.2.iii	2-1	Public notice of the draft annual report and provide the opportunity for public comment (ANNUALLY)	10/02/08	
B. ADDITIONAL MEASURABLE GOALS:				
IV.B.2.b.2.	2-2	Hold regular storm water steering committee meetings (1 st year)	December 2006	
IV.B.2.b.2.	2-3	Hold quarterly storm water steering committee meetings (2 nd through 5 th year)		The Stormwater Steering Committee did not meet during Permit Year 2 (January 2005-December 2005). The Stormwater Steering Committee did meet regularly in Permit Year 3 (January 2006-December 2006).
IV.B.2.b.2.ii	2-4	Coordinate with Save the Bay to continue storm drain stenciling program (ANNUALLY)	December 2007	
IV.B.2.b.2.ii	2-5	Identify locations of marked storm drains using GIS (2 nd year)		The Town of Bristol has contracted with an engineering consultant to update the GIS to include a storm drain layer. The mapping portion of the project is 75% complete and is expected to be completed by December 31, 2008.
IV.B.2.b.2.ii	2-6	Develop a program to prioritize storm drain stenciling using GIS (2 nd & 3 rd year)		The Town of Bristol has contracted with a consultant to update the GIS. The Town works with Save the Bay to coordinate an annual storm drain stenciling program. GIS was not utilized when identifying and prioritizing storm drains for stenciling during Year 4 since GIS layer is still under development.

IV.B.2.b.2.ii	2-7	Stencil a minimum of 25 storm drains per year (3 rd , 4 th , and 5 th years)	December 2007	
IV.B.2.b.2	2-8	Utilize GIS to identify town maintained shorelines and streams for cleanup and monitoring (2 nd year)		The Town of Bristol has contracted with a consultant to update the GIS. The Town works with Save the Bay to coordinate the shoreline cleanups. GIS was not utilized when identifying and prioritizing shorelines for cleanup during Year 4 since GIS layer is still under development.
IV.B.2.b.2.	2-9	Continue coordinating and hosting annual Earth Day events (3 rd , 4 th , and 5 th years)	April 2007	

SECTION II. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:	
<p>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.</p> <p>(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)</p>	
IV.B.2.b.2.ii	<p>The Town Planner is responsible for achieving the measurable goals. The Town of Bristol utilized the membership and activities of the Kickemuit River Council Save Bristol Harbor, and Save the Bay to assist with this goal. This goal was met by continuing the existing outreach, shoreline cleanup, storm drain stenciling, and other water quality monitoring activities. One volunteer provided 250 hours of cleaning the Bristol Harbor shoreline. In addition, Mosaico Community Development worked with the fourth graders who marked storm drains and cleaned the shoreline through the "Sense of Pride" program. This program logged 194 volunteer hours with approximately 100 storm drain markers installed in 2007. Save the Bay worked with 13 students from Mt. Hope High School on a shoreline cleanup at Mt. Hope Farm. This cleanup lasted 2.5 hours. Some other volunteer shoreline cleanups were done in Permit Year 4 by Save the Bay. In Permit Year 5, the Town of Bristol plans to continue to work with various community groups to achieve this goal.</p>
IV.B.2.b.2.iii	<p>A public notice for the draft annual report was held on October 22nd during a Town Council Meeting. At this meeting, the report was summarized and then the public had the opportunity to comment on the Year 4 Annual report. Prior to the Town Council Meeting, the public had a chance to review the annual report.</p>

Additional Measurable Goals and Activities

BMP ID 2-2: The Stormwater Steering Committee met 2 times during permit years one and three (March 2004-December 2004 and March 2006-December 2006).

BMP ID 2-3: During Permit Year 4 (January 2007-December 2007), the Stormwater Steering Committee did not meet.

BMP ID 2-4: Mosaico Community Development worked with the fourth graders who marked storm drains and cleaned the shoreline through the "Sense of Pride" program.

BMP ID 2-5: The Town of Bristol has entered into a contract with an engineering consultant to update the existing GIS to include additional layers. The additional layers include a storm drain layer, elevation contours, sanitary sewers, Tax Assessor's parcels, and zoning districts. At the end of year 4, 75% of the mapping project was complete. As part of the mapping program, the outfall mapping from DEM GIS layer and available plans have been added. The mapping will be completed by December 31, 2008. The Town of Bristol spent approximately \$60,000 on town-wide contour mapping. The contour mapping was developed to assist with the ongoing storm water management program and the Silver Creek Watershed Drainage Study. GPS units were purchased to assist in the inspections of the town's storm drain components. By the end of year 4, all drainage components in the Silver Creek Watershed and Tanyard Brook Watershed have been inspected.

BMP ID 2-6: The Town of Bristol has contracted with a consultant to update the GIS. The Town works with Mosaico Community Development Corporatin and Save the Bay to coordinate an annual storm drain stenciling program. GIS was not utilized when identifying and prioritizing storm drains for stenciling during Year 4 since GIS layer is still under development. The focus of the stenciling program is on the downtown area with dense population close to neighborhood elementary schools. These drains discharge directly to Bristol Harbor.

BMP ID 2-7: Mosaico Community Development worked with the fourth graders who marked storm drains and cleaned the shoreline through the "Sense of Pride" program.

BMP ID 2-8: One volunteer provided 250 hours of cleaning the Bristol Harbor shoreline. Save the Bay worked with 13 students from Mt. Hope High School on a shoreline cleanup at Mt. Hope Farm. This cleanup lasted 2.5 hours. Some other volunteer shoreline cleanups were done in Permit Year 4 by Save the Bay.

BMP ID 2-9: The Town of Bristol held Earth Day in April 2007.

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

Date of Public Notice: October 9, 2008	How public was notified: Local newspaper (Bristol Phoenix) and Town web site
Was public meeting held? <input checked="" type="checkbox"/> YES NO	
Date: 10/22/08	Where: Town Hall – City Council Meeting
Summary of public comments received: No comments were received from the public.	
Planned responses or changes to the program: None	



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

SECTION I. MEASURABLE GOALS: (For shaded areas, please provide descriptions of ongoing activity in SECTION II.)

A. REQUIRED MEASURABLE GOALS:					
Permit ID#	BMP ID	List Measurable Goal	Date(s) Completed	Date Submitted to RIDEM	Name of document used to submit info to RIDEM and where it can be found in that document. If goal was NOT met, briefly list reasons, current status, plans and new date for meeting the goal.
IV.B.3.b.1	3-1 & 3-2	Development of an outfall map showing the location of all outfalls and names of receiving waters (DUE YEAR 3)			The outfall map has not been submitted to RIDEM. The outfall map should be completed by December 31, 2008.
IV.B.3.b.2	3-1	Tagging outfall pipes if GIS maps are not being developed (OPTIONAL ACTIVITY)			PLEASE COMPLETE UNDER SECTION II.
IV.B.3.b.3	3-2	Recording of additional elements, such as location of catch basins, manholes and pipes, on an on-going basis. (ONGOING)			PLEASE COMPLETE UNDER SECTION II.
IV.B.3.b.4	3-7	Adoption of Ordinance to prohibit and enforce illicit discharges into the MS4 (DUE YEAR 2)			The Town of Bristol plans to further pursue adopting an illicit discharge ordinance in 2008.
	3-8	Signed Letter from City or Town Solicitor (DUE YEAR 2)			As soon as the ordinance is passed, the Town plans to send a copy of the ordinance to RIDEM with a signed letter from the Town Solicitor.
IV.B.3.b.5.ii, iii, iv, & v	3-10, 3-11, 3-13, and 3-14	Implement procedures for the receipt and consideration of complaints, tracing the source of an illicit discharge, removing the source of the illicit discharge, and evaluating and assessing the program (ONGOING)			PLEASE COMPLETE UNDER SECTION II.
IV.B.3.b.5.vi	3-3	Inspection of all catch basins and manholes for illicit connections and non-storm water discharges (DUE YEAR 4)			25% of the catch basins and manholes have been inspected. The Town of Bristol plans to complete the task by the end of 2009.
IV.B.3.b.5.vii	3-5 & 3-6	Completion of two dry weather surveys, one between Jan 1 st and April 30 th and one between July 1 st and Oct 31 st . (Sanitary sewers- bacteria sampling is only required once between July 1 st and Oct 31 st) (DUE YEAR 4)			The town plans to perform dry weather surveys during the fall of 2008.
IV.B.3.b.7	3-12	Implementation of coordinating activities with physically interconnected MS4s, including state and federal owned or operated MS4s, when illicit discharges are detected or reported (ONGOING)			PLEASE COMPLETE UNDER SECTION II.
IV.B.3.b.8	3-10	Implementation of referral to RIDEM of non-storm water discharges not authorized by this permit or a pre-existing permit (ONGOING)			PLEASE COMPLETE UNDER SECTION II.

ILLICIT DISCHARGE DETECTION AND ELIMINATION cont'd

IV.B.3.b.9	3-9	Education of public employees, businesses, and the general public of hazards associated with illicit discharges and improper disposal of waste as well as allowable non-stormwater discharges found to be significant contributors of pollutants to the MS4. (ONGOING)			PLEASE COMPLETE UNDER SECTION II.
B. ADDITIONAL MEASURABLE GOALS:					
IV.B.3.b.8	3-9	Develop a strategy for illicit discharge education (1 st year)			After the illicit discharge ordinance passes, the town plans to follow up with an education program.
	3-4	Inspect all town outfalls (3 rd year)			All of the outfalls have not been inspected. The plan is to finish inspecting the outfalls in the next two years.

SECTION II. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS
<p>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.</p> <p>(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)</p>
<p>IV.B.3.b.1</p> <p>The Town of Bristol has entered into a contract with an engineering consultant to update the existing GIS to include additional layers. The additional layers include a storm drain layer, elevation contours, sanitary sewers, Tax Assessor's parcels, and zoning districts. At the end of year 4, 75% of the mapping project was complete. As part of the mapping program, the outfall mapping from DEM GIS layer and available plans have been added. Also, town wide storm drain mapping is being completed using record drawings provided by the Town. Where no record drawings exist, the Town and its engineering consultant will be field verifying the location of structures and investigating system components to accurately map the drain system. The mapping portion will be completed by December 31, 2008.</p> <p>The Town of Bristol spent approximately \$60,000 on town-wide contour mapping (2 foot elevations). The contour mapping was developed to assist with the ongoing (town wide) storm water management program and the Silver Creek Watershed Drainage Study.</p> <p>GPS units were purchased to assist in the inspections of the town's storm drain components.</p> <p>By the end of year 4, all drainage components in the Silver Creek Watershed and Tanyard Brook Watershed have been inspected. These two watersheds make up approximately 25 percent of the land area in town and some of its most densely developed areas.</p>

IV.B.3.b.2

Since the Town of Bristol has used GIS to map the outfalls, this requirement is optional. The Town of Bristol has not tagged outfalls.

IV.B.3.b.3

The Town of Bristol hired a consultant to update the existing GIS to include additional layers during Year 3. As part of another project, a consultant was hired to open, inspect, and record drainage structures within the Silver Creek Watershed. Approximately 1,000 catch basins were opened along with 250 drain manholes. The information from this project will be included in the GIS system. In 2002, a consultant was hired to evaluate flooding within the Tanyard Brook Watershed. As part of this study, video inspection of the Brook was performed and drainage structures were inspected. In 2008, the town plans to field verify the location of the drainage structures and investigate system components to accurately map the drainage system.

IV.B.3.b.4

The Town has reviewed model ordinances pertaining to illicit discharges and discussed them with the Town Solicitor. The Town of Bristol plans to further pursue adopting an illicit discharge ordinance in 2008.

IV.B.3.b.5.ii, iii, iv, & v

The Department of Public Works and the Wastewater Department do currently work together to investigate complaints or other evidence of potential illicit connections to the Town's drainage system. Complaints or direct observations by Town employees or consultants are investigated by the DPW and their sources identified and removed (if necessary). Priority areas for illicit discharge detection include the downtown district and industrial areas, and residential areas in the vicinity of the Town Beach. At this time, the Town has not tracked the complaints. In Permit Year 5, the Town plans to continue to investigate complaints and other evidence of potential illicit connections to the Town's drainage system. The Town will look into different methods to track the complaints.

IV.B.3.b.5.vi

As part of the Silver Creek Drainage Study and the Tanyard Brook Project, the catch basins and manholes within those two watersheds (approximately 25% of the town) have been mapped and inspected for illicit connections. As of 2007, the Town of Bristol has vacuumed cleaned and inspected 300-400 catch basins and manholes. During this inspection, the town did not find any illicit connections. Twice a year the Town of Bristol cleans their catch basins. In 2007, Bristol cleaned 387 catch basins.

IV.B.3.b.5.vii

At this time, no dry weather surveys have been completed. The Department of Public Works plans to perform the dry weather surveys in the fall of 2008.

IV.B.3.b.7

RIDOT owns storm drains along Metacom Avenue (Rt. 136) and Hope Street (Rt.114) as well as several connecting streets (Chestnut Street, Gooding Avenue, and others). The drains on these streets are interconnected with the Town's drains. Some of the RIDOT drain system was mapped in the Silver Creek and Tanyard Brook watershed studies. Due to insufficient funds at RIDOT, the town has not been able to take any steps to coordinate with State interconnected MS4's.

ILLICIT DISCHARGE DETECTION AND ELIMINATION cont'd

<p>IV.B.3.b.8</p> <p>The Town of Bristol has not organized a program to teach the community about illicit discharge and improper disposal of waste. At this time, the town is researching potential ordinance for illicit discharge. After this ordinance passes, the town plans to follow up with an education program.</p>
<p>IV.B.3.b.9</p> <p>The Town participates in limited public education. Bristol has installed a plan for spill prevention and good housekeeping for the primary maintenance and storage facility on Mt. Hope Avenue which was approved by RIDEM and EPA in March 2005. In 2007 the Department of Public works trained 33 employees in prevention of stormwater pollution and on how to reduce it.</p>
<p>Additional Measurable Goals and Activities</p> <p>BMP ID 3-9: The town of Bristol has not organized a program to teach the community about illicit discharge and improper disposal of waste. At this time, the town is researching potential ordinance for illicit discharge. After this ordinance passes, the town plans to follow up with an education program.</p> <p>BMP ID 3-4: During 2007 the Town of Bristol has inspected 40 outfalls. The plan is to finish inspecting the remaining outfalls within the next two years.</p>

SECTION III.A Other Reporting Requirements - Illicit Discharge Inspections to Date (Part IV.G.2.m)

Total Illicit Discharges Identified: 0	Total Illicit Discharges Tracked: 0
Total Illicit Discharges Eliminated: 0	# of Complaints Received: 0
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0
<p>Summary of Enforcement Actions:</p> <p>The Department of Public Works and the Wastewater Department do currently work together to investigate complaints or other evidence of potential illicit connections to the Town's drainage system. Complaints or direct observations by Town employees or consultants are investigated by the DPW and their sources identified and removed (if necessary). The Town does not track illicit discharges at this time.</p>	
<p>Extent to which the MS4 system has been mapped:</p> <p>The Town of Bristol has entered into a contract with an engineering consultant to update the existing GIS to include additional layers. The additional layers include a storm drain layer, elevation contours, sanitary sewers, Tax Assessor's parcels, and zoning districts. At the end of year 4, 75% of the mapping project was complete. As part of the mapping program, the outfall mapping from DEM GIS layer and available plans (record plans from developments in town and plans provided by RIDEM and RIDOH) have been added (this included outfall mapping and sampling data obtained from RIDEM shellfish program and RI DOH). The mapping will be completed by December 31, 2008. The Town of Bristol spent approximately \$60,000 on town-wide contour mapping. The contour mapping was developed to assist with the ongoing storm water management program and the Silver Creek Watershed Drainage Study. GPS units were purchased to assist in the inspections of the town's storm drain components. By the end of year 4, all drainage components in the Silver Creek Watershed and Tanyard Brook Watershed have been inspected.</p>	

SECTION III.B Interconnections (Part IV.G.2.k and IV.G.2.l)

Interconnection:	Date Found:	Location:	Connectee:	Originating Source:	Planned and Coordinated Efforts and Activities with Connectee:
RIDOT		Rt. 136	RIDOT		None planned at this time.
RIDOT		Rt. 114	RIDOT		None planned at this time.



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

SECTION I. MEASURABLE GOALS: (For shaded areas, please provide descriptions of ongoing activity in SECTION II.)

A. REQUIRED MEASURABLE GOALS:					
Permit ID#	BMP ID	List Measurable Goal	Date(s) Completed	Date Submitted to RIDEM	Name of document used to submit info to RIDEM and where it can be found in that document. If goal was NOT met, briefly list reasons, current status, plans and new date for meeting the goal.
IV.B.4.b.1	4-1 & 4-2	Adoption of Ordinance to require erosion and sediment control, control of other wastes, and sanctions to ensure compliance (DUE YEAR 2)	January 2006		
		Signed Letter from City or Town Solicitor (DUE YEAR 2)	July 2008	July 2008	A copy of the ordinance and a signed letter from the Town Solicitor accompanies this document.
IV.B.4.b.2 IV.B.4.b.4	4-3	Review of 100% of plans and SWPPPs, issuance and tracking of permits for construction projects \geq 1 acre not reviewed by other State Programs (ONGOING)			PLEASE COMPLETE UNDER SECTION II.
IV.B.4.b.6	4-3	Implementation of procedures to receive and consider information from the public (if relevant.) (ONGOING)			PLEASE COMPLETE UNDER SECTION II.
IV.B.4.b.7	4-4, 4-5, 4-6, & 4-7	Inspection of 100% of all construction projects within the regulated area that discharge or have the potential to discharge to the MS4. Enforcement of erosion and sediment control measures and other measures for control of waste at construction sites. (ONGOING)			PLEASE COMPLETE UNDER SECTION II.
IV.B.4.b.8	4-9	Implementation of procedures for referral to the State of non-compliant construction site operators (ONGOING)			PLEASE COMPLETE UNDER SECTION II.
B. ADDITIONAL MEASURABLE GOALS:					
IV.B.4.b.2	4-8	Track the number of non-compliant sites reported.			The Town has not tracked the non-compliant sites in a formal database. Parties responsible for non-compliant sites are informed by a phone call or letter. At this time, the Town of Bristol is looking into different options to track compliance.

SECTION II. 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.)

IV.B.4.b.1

The Erosion, Runoff & Sediment Control Ordinance was adopted in January 2006. This purpose of this ordinance is to prevent soil erosion, excessive surface water runoff, and sedimentation from occurring during and after construction.

IV.B.4.b.2 & IV.B.4.b.4

The Planning Department, Building Official, and Department of Public Works are responsible for this goal. The Erosion, Runoff & Sediment Control Ordinance allows the Town to review all construction projects greater than one acre in size that are not otherwise subject to Planning Board review. Since the adoption of the ordinance, the Town has reviewed 100% of plans for construction projects greater than equal to 1 acre. All construction projects, including smaller ones less than one acre are reviewed for erosion and sediment controls. The review is conducted by the planning board and planning board engineer if appropriate or by the planning department, DPW and building inspector for smaller projects (example single homes). If we feel it is necessary for smaller projects, we can also ask the town's engineering consultant to review the project at the applicant's expense. We do not have a database to track permits, but we do keep files on each project. For Year 5, the Town plans to continue this practice.

IV.B.4.b.6

Complaints are received by either the Building Inspector, Planning Department, or our Code Compliance Coordinator. We always follow up quickly and require repairs to address the problem. We usually know about construction activities in town as some sort of permit is usually required so we usually know who to contact quickly to address the problem. In year 4, the Town of Bristol received approximately 11 complaints.

IV.B.4.b.7

The Planning Department staff and building inspector are responsible for tracking and inspection of all of the construction sites. There are notes made of the inspections; however, they are not tracked. Four construction sites required enforcement action and follow up. Enforcement is usually accomplished with a phone call or notice of inspection letter. Violations were usually corrected after contact by the town. No formal recorded violation notices were issued for erosion and sediment controls. None were referred to RIDEM.

IV.B.4.b.8

The Town of Bristol has not used the assistance of RIDEM to enforce the Erosion, Runoff, & Sediment Control Ordinance. The Town does call RIDEM if there is a wetland violation.

Additional Measurable Goals and Activities

BMP ID 4-8: All non-compliant sites became compliant once they were made aware of the violations, so none were reported to RIDEM.

SECTION III. A Plan and SWPPP Reviews during Year 4 (2007)

of Construction Reviews completed: Unknown

Summary of Reviews and Findings:

The Planning Department, Building Official, and Department of Public Works are responsible for reviewing plans and SWPPP for construction site storm water runoff control. The Erosion, Runoff & Sediment Control Ordinance allows the Town to review all construction projects greater than one acre in size that are not otherwise subject to Planning Board review. Since the adoption of the ordinance, the Town has reviewed 100% of plans for construction projects greater than equal to 1 acre. All construction projects, including smaller ones less than one acre are reviewed for erosion and sediment controls. The review is conducted by the planning board and planning board engineer, if appropriate, or by the planning department, DPW and building inspector for smaller projects (example single homes). If we feel it is necessary for smaller projects, we can also ask the town's engineering consultant to review the project at the applicant's expense. We do not have a database to track permits, but we do keep files on each project. For Year 5, the Town plans to continue this practice.

SECTION III.B Erosion and Sediment Control Inspections during Year 4 (2007) (Part IV.G.2.n)

# of Site Inspections: Unknown	# of Complaints Received: 11
# of Violations Issued: 4	# of Unresolved Violations Referred to RIDEM: 0
Summary of Enforcement Actions: All construction sites are inspected for erosion and sediment control. Four sites required enforcement and follow-up. Enforcement is usually accomplished with a phone call or notice of inspection letter. Violations were usually corrected after contact by the town. No formal recorded violation notices were issued for erosion and sediment controls.	



**MINIMUM CONTROL MEASURE #5:
POST CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT
(Part IV.B.5 General Permit)**

SECTION I. MEASURABLE GOALS: (For shaded areas, please provide descriptions of ongoing activity in SECTION II.)

A. REQUIRED MEASURABLE GOALS:					
Permit ID#	BMP ID	List Measurable Goal	Date(s) Completed	Date Submitted to RIDEM	Name of document used to submit info to RIDEM and where it can be found in that document. If goal was NOT met, briefly list reasons, current status, plans and new date for meeting the goal.
IV.B.5.b.4	5-6	Review of 100% of plans for development projects one or more acres not reviewed by other State Programs (ONGOING)			PLEASE COMPLETE UNDER SECTION II.
IV.B.5.b.5	5-4	Coordination with existing State programs requiring post-construction storm water management (ONGOING)			PLEASE COMPLETE UNDER SECTION II.
IV.B.5.b.6	5-5	Implementation of referral to the State of new discharges of storm water associated with industrial activity (ONGOING)			PLEASE COMPLETE UNDER SECTION II.
IV.B.5.b.9	5-1, 5-2, & 5-3	Adoption of Ordinance to address post-construction runoff from new development and redevelopment (DUE YEAR 2)	January 2006		
		Signed Letter from City or Town Solicitor (DUE YEAR 2)	October 2008	October 2008	A copy of the ordinance and a signed letter from the Town Solicitor accompanies this document.
IV.B.5.b.10	5-7	Post-construction inspections of BMPs and inspect 100% of all development \geq 1 acre within the regulated area that discharges to the MS4 (ONGOING)			PLEASE COMPLETE UNDER SECTION II.
IV.B.5.b.11	5-8 5-9	Implementation of how long-term O&M of selected BMPs for new and re-development will be identified, tracked and enforced (ONGOING)			PLEASE COMPLETE UNDER SECTION II.
IV.B.5.b.12	5-10	Identification of existing structural BMPs (ONGOING)			PLEASE COMPLETE UNDER SECTION II.
B. ADDITIONAL MEASURABLE GOALS:					

POST CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT cont'd

SECTION II. 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.

IV.B.5.b.4

The design and construction of post-construction stormwater controls are currently regulated by the Town's subdivision and land development plan review regulations for the vast majority of construction sites measuring greater than one acre. Inspections are conducted by the Town's engineering consultant to ensure compliance with approved plans. The Planning Department and Department of Public Works are responsible for achieving the measurable goals. As part of the Erosion, Runoff, and Sediment Control Ordinance review, some smaller projects (less than 1 acre) are reviewed. At times, the Town of Bristol has required the smaller projects to include roof drains that discharge to drywells or some grading to control runoff. All plans for projects larger than one acre were reviewed for post-construction stormwater controls. In 2008, the Town of Bristol plans to continue current procedures.

IV.B.5.b.5

The Town of Bristol reviews all plans under the Town's ordinances and regulations, which in most cases require the same design standards as state regulations. The Soil Erosion, Runoff, and Sediment Control Ordinance requires that if any approval from Rhode Island Freshwater Wetlands Permit or a Coastal Resource Management Council Assent contains provisions for soil erosion, runoff and sediment controls that the approved site plan be a component of the overall soil erosion, runoff and sediment control plan.

IV.B.5.b.6

The Town of Bristol has not referred new discharges of storm water associated with industrial activity to the State.

IV.B.5.b.9

The Erosion, Runoff & Sediment Control Ordinance was adopted in January 2006. This purpose of this ordinance is to prevent soil erosion, excessive surface water runoff, and sedimentation from occurring during and after construction. As part of this ordinance, the Town of Bristol restricts the amount of storm runoff volume in the Town and a more stringent volume Tanyard Brook Watershed. This ordinance also specifies the use of low impact development techniques within the Town of Bristol. At this time, the Planning Board often includes conditions for operation and maintenance of BMP's into their decisions.

IV.B.5.b.10

All developments approved by the Planning Board include periodic inspections during construction by our engineering consultant. All developments greater than 1 acre have been inspected. If the Planning Board engineer or someone else from the Town finds a violation, it is usually handled by follow up telephone calls or a written inspection notice to the property owner. The Town of Bristol does not know of any issues that have not been corrected after initial contact. Therefore, there have been no referrals to RIDEM.

POST CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT cont'd

IV.B.5.b.11

At this time, the Town of Bristol does not perform site inspections to ensure the proper operation and maintenance of structural BMPs for private developments. If a specific condition is placed on a development by the Planning Board, they are checked for compliance. For public BMP's, maintenance is performed by the DPW. The Town of Bristol is considering updating the Soil Erosion, Runoff and Sediment Control ordinance to include proper operation and maintenance of structural BMPs.

IV.B.5.b.12

The Town of Bristol has not identified existing structural BMP's belonging to private entities. The Town of Bristol is planning on doing an inventory based upon their knowledge of private developments in the past 20 years.

Additional Measurable Goals and Activities

SECTION III.A. Plan and SWPPP Reviews during Year 4 (2007)

of Post-Construction Reviews completed: **Unknown**

Summary of Reviews and Finding:

If the Planning Board engineer or someone else from the Town finds a violation, it is usually handled by follow up telephone calls or a written inspection notice to the property owner. All developments approved by the Planning Board include periodic inspections during construction by our engineering consultant. All developments greater than 1 acre have been inspected. If the Planning Board engineer or someone else from the Town finds a violation, it is usually handled by follow up telephone calls or a written inspection notice to the property owner. The Town of Bristol does not know of any issues that have not been corrected after initial contact. Therefore, there have been no referrals to RIDEM.

SECTION III.B. Post Construction Inspections during Year 4 (2007): Proper Installation of Structural BMPs (Part IV.G.2.o)

of Site Inspections: **Unknown**

of Complaints Received: **Unknown**

of Violations Issued: **0**

of Unresolved Violations Referred to RIDEM: **0**

POST CONSTRUCTION STORM WATER MANAGEMENT IN NEW DEVELOPMENT AND REDEVELOPMENT cont'd

Summary of Enforcement Actions:

If the Planning Board engineer or someone else from the Town finds a violation, it is usually handled by follow up telephone calls or a written inspection notice to the property owner.

SECTION III.C. Post Construction Inspections during Year 4 (2007): Proper Operation and Maintenance of Structural BMPs (Part IV.G.2.p)

of Site Inspections: **0**

of Complaints Received: **0**

of Violations Issued: **0**

of Unresolved Violations Referred to RIDEM: **0**

Summary of Enforcement Actions:

At this time, the Town of Bristol does not perform site inspections to ensure the proper operation and maintenance of structural BMPs.



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

SECTION I. MEASURABLE GOALS: (For shaded areas, please provide descriptions of ongoing activity in SECTION II.)

A. REQUIRED MEASURABLE GOALS:				
Permit ID#	BMP ID	List Measurable Goal	Date(s) Completed	If goal was NOT met, briefly list reasons, current status, plans and new date for meeting the goal
IV.B.6.b.1.i		Identification, location and description of all municipally owned structural BMPs (ONGOING)		PLEASE COMPLETE UNDER SECTION II.
IV.B.6.b.1.ii	6-1, 6-2	Inspection and cleaning BMPs (ONGOING)		PLEASE COMPLETE UNDER SECTION II.
IV.B.6.b.1.iii	6-1, 6-2	Annual catch basin inspection and cleaning program (ANNUALLY)	12/31/2007	
IV.B.6.b.1.iv	6-5	Minimize erosion of road side shoulders and ditches by requiring stabilization of those areas (ONGOING)		PLEASE COMPLETE UNDER SECTION II.
IV.B.6.b.1.v	6-3	Identify and report annually the known discharges causing scouring at outfall pipes or outfalls with excessive sedimentation and a description of all corrective actions (ONGOING / ANNUALLY)		PLEASE COMPLETE UNDER SECTION II.
IV.B.6.b.1.vi	6-6, 6-7	Annual road sweeping of all streets and roads within the regulated area annually (ANNUALLY)	12/31/2007	
IV.B.6.b.1.vii	6-4	Maintenance activities, schedules and long-term inspection for controls to reduce floatables (ONGOING)		PLEASE COMPLETE UNDER SECTION II.
IV.B.6.b.1.viii	6-6, 6-7	Proper disposal of removed waste from the MS4 (ONGOING)		PLEASE COMPLETE UNDER SECTION II.
IV.B.6.b.4	6-10	Municipally owned non-Industrial facilities must develop and implement BMPs for O& M and Good Housekeeping, as well as corrective actions designed to eliminate and/or minimize the discharge of pollutants to waters of the State (DUE YEAR 4)	3/2005	

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

IV.B.6.b.5	6-10	Reporting and tracking of inspections, comprehensive site evaluations, corrective actions implemented and scheduled improvements to minimize the discharge of pollutants at industrial facilities owned and operated by the municipality (ONGOING)		PLEASE COMPLETE UNDER SECTION II.
IV.B.6.b.6	6-8, 6-9	Implementation of employee training programs that will be used to prevent and reduce storm water pollution (ONGOING)		PLEASE COMPLETE UNDER SECTION II.
IV.B.6.b.7		Implementation of procedures for assessing potential water quality impacts to existing and new flow management projects (ONGOING)		PLEASE COMPLETE UNDER SECTION II.
B. ADDITIONAL MEASURABLE GOALS:				
IV.B.6.b.1.vi	6-4	Sweep environmentally sensitive areas twice per year	12/31/2007	

SECTION II. OVERALL EVALUATION:

GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:				
<p>Include information relevant to the implementation of each measurable goal, such as activities and practices used to address on-going requirements. 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.</p> <p>(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)</p>				
IV.B.6.b.1.i				
<p>The Department of Public Works is responsible for achieving the measurable goals. The Town of Bristol has entered into a contract with an engineering consultant to update the existing GIS to include additional layers. The additional layers include a storm drain layer, elevation contours, sanitary sewers, Tax Assessor's parcels, and zoning districts. At the end of year 4, 75% of the mapping project was complete. As part of the mapping program, the outfall mapping from DEM GIS layer and available plans (record plans from developments in town and plans provided by RIDEM and RIDOH) have been added (this included outfall mapping and sampling data obtained from RIDEM shellfish program and RI DOH). The mapping will be completed by December 31, 2008. The Town of Bristol spent approximately \$60,000 on town-wide contour mapping. The contour mapping was developed to assist with the ongoing storm water management program and the Silver Creek Watershed Drainage Study. GPS units were purchased to assist in the inspections of the town's storm drain components. By the end of year 4, all drainage components in the Silver Creek Watershed and Tanyard Brook Watershed have been inspected (approximately 25% of the Town).</p>				
IV.B.6.b.1.ii				
<p>The Town of Bristol performed maintenance on a detention pond at the end of Highview Drive during the week of July 16, 2007.</p>				

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

IV.B.6.b.1.iii

Stormwater catch basins are inspected and cleaned as needed throughout the year using a vacuum truck. Emphasis for catch basin cleaning is on known problem areas such as those with flooding problems or where outfalls have been identified with heavy sedimentation. In 2007, a new vacuum truck to clean catch basins was purchased, so the number of basins cleaned should increase in the future.

IV.B.6.b.1.iv

At this time, the Town has not taken any steps to minimize erosion of road side shoulders and ditches. There are some problem areas on several older streets where there is no drainage infrastructure.

IV.B.6.b.1.v

The Town of Bristol has entered into a contract with an engineering consultant to update the existing GIS to include additional layers. The additional layers include a storm drain layer, elevation contours, sanitary sewers, Tax Assessor's parcels, and zoning districts. At the end of year 4, 75% of the mapping project was complete. As part of the mapping program, the outfall mapping from DEM GIS layer and available plans have been added. The mapping will be completed by December 31, 2008. The Town of Bristol spent approximately \$60,000 on town-wide contour mapping. The contour mapping was developed to assist with the ongoing storm water management program and the Silver Creek Watershed Drainage Study. GPS units were purchased to assist in the inspections of the town's storm drain components. By the end of year 4, all drainage components in the Silver Creek Watershed and Tanyard Brook Watershed have been inspected.

At this time, the Town of Bristol has inspected approximately 40 outfalls. Even though there are some outfalls within the Town of Bristol with known discharges that cause scouring, none have been identified through the inspections.

IV.B.6.b.1.vi

The Department of Public Works currently conducts an annual road-sweeping program that includes all Town roadways. In addition, targeted roadways in the downtown area are swept more frequently throughout the year.

IV.B.6.b.1.vii

In Permit Year 4, the Town has not taken any steps to reduce floatables.

IV.B.6.b.1.viii

All wastes collected from roadway sweeping and catch basin cleaning operations are dewatered and sent to Rhode Island Resource Recovery Corporation for disposal.

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

<p>IV.B.6.b.4</p> <p>The Department of Public Works has developed and implemented a spill prevention and good housekeeping plan for their primary maintenance and storage facility on Mt. Hope Avenue. The plan has been approved by RIDEM & EPA and includes provisions for fuel storage, salt and sand storage, vehicle washing, and stormwater management. The plan was approved in March 2005. In 2006, the town built a new vehicle washing building. The Town's Wastewater Treatment Facility, located off of Wood Street, also has pollution prevention procedures in place to prevent the release of hazardous materials or other contaminants to the environment. This facility is not served by any stormwater drainage structures, and runoff is directed from impervious areas to vegetated swales and woodlands. The facility is inspected annually by RIDEM.</p>
<p>IV.B.6.b.5</p> <p>The Town's Wastewater Treatment Facility, located off of Wood Street, also has pollution prevention procedures in place to prevent the release of hazardous materials or other contaminants to the environment. This facility is not served by any stormwater drainage structures, and runoff is directed from impervious areas to vegetated swales and woodlands. The facility is inspected annually by RIDEM.</p>
<p>IV.B.6.b.6</p> <p>As part of the good housekeeping plan, employees have been trained on how to prevent and reduce storm water pollution. Thirty-three town employees were trained in 2007 to prevent and reduce storm water pollution.</p>
<p>IV.B.6.b.7</p> <p>As part of the GIS contract with BETA, training was provided to the DPW and planning staff. The training included how to use GIS, how to identify and map storm drain outfalls, how to identify discharges from outfalls, and how to prioritize an outfall sampling plan.</p>
<p>Additional Measurable Goals and Activities</p> <p>BMP ID 6-4: The Department of Public Works currently conducts an annual road-sweeping program that includes all Town roadways. In addition, targeted roadways in the downtown area are swept more frequently throughout the year.</p>

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

BMP ID:	Location:	Name of BMP Owner/Operator:	Description of BMP:

POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd

SECTION III.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 III.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).

The town is currently researching different BMP's to treat stormwater from the Town Beach Parking Lot. Several different BMP's including a Vortech or a similar structure and a bioretention area were researched for applicability. Catch basins with Abtech Smart Sponge Plus Ultra-urban filters, rip-rap swale, and a grass swale with check dams were chosen. The project is in the permitting process and bidding process.

SECTION III.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).

During Year 4, the Town of Bristol hired a consultant to perform a drainage study of the Silver Creek watershed. The primary objective of the study was to determine the causes of flooding within the watershed, and to identify remedial projects which the Town may advance as money becomes available through grants or bonds. As part of the study, approximately 1,000 catch basins were opened along with 250 drain manholes. The inspections were performed using GIS. At the conclusion of the study, the Town was provided with five recommendations which included a development of a Capital Improvement Plan to upgrade the drainage systems, coordinate with RIDOT to manage flooding on local streets, enforce a "No Dumping" policy, implement BMPs at municipal discharges to reduce sediment loading, and dredge the lower open water sections of Silver Creek to re-establish the salt marsh and increase available flood storage.

Also during Year 4, the Town of Bristol hired a consultant to design a culvert for the Tanyard Brook. The purpose of this project is to reduce severe flooding within the Tanyard Brook watershed.

As part of the property reevaluation program, basement and sump pump inspections were performed. When an illegal connection to drain or sewer was identified, the homeowner was notified that they need to remedy the problem. This Sump Pump Private Property Inspection Program started in Year 4 and should be completed in February 2008.

The Town of Bristol and a consultant, BETA, are investigating a number of suspected locations where flat roof structures (with internal roof drains) and to a lesser extend external roof leaders are illegally connected to the sewer systems. BETA and the Town of Bristol will be performing dye-testing, wet weather observations and reviewing old records to determine where the illegal tie-ins exist. This will be completed a the end of the wet weather season, 2008.



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 storm water 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 storm water identified in the approved TMDL (Part IV.G.2.d). Please indicate rationale for the activities chosen to address the pollutant of concern.

At this time, the Town of Bristol has not received notification for discharges that require storm water controls based on an approved TMDL or other water quality determination. There is a TMDL for the Kickemuit River; however, the Town of Bristol was not listed as part of the TMDL. The town is currently researching different BMP's to treat stormwater from the Town Beach Parking Lot. Several different BMP's including a Vortech or a similar structure and a bioretention area have been researched for applicability. The project is in the planning stages and a specific BMP has not been chosen.



RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

Office of Water Resources



INSTRUCTIONS FOR THE RI POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIPDES) SMALL MUNICIPAL SEPARATE STORM SEWER SYSTEMS AND INDUSTRIAL ACTIVITY AT ELIGIBLE FACILITIES OPERATED BY REGULATED SMALL MS4s ANNUAL REPORT FORM

WHO MUST SUBMIT AN ANNUAL REPORT:

Owners/Operators of regulated small municipal separate storm sewer systems (MS4s) and industrial activities authorized to discharge storm water under the Rhode Island Pollutant Discharge Elimination System (RIPDES) Storm Water General Permit for Small Municipal Separate Storm Sewer Systems and Industrial Activity at Eligible Facilities Operated by Regulated Small MS4s, must submit an Annual Report, outlined in Part IV.G of the permit. The Report must be submitted each year after permit issuance by March 10th to track progress of compliance. If you have questions regarding this Annual Report Form contact Margarita Chatterton of the Rhode Island Department of Environmental Management (RIDEM), Office of Water Resources, Permitting Section at (401) 222-4700 ext. 7605.

The Annual Report must be submitted to:

RIDEM
Office of Water Resources
RIPDES Program
Permitting Section
235 Promenade Street
Providence, RI 02908
ATTN: Margarita Chatterton

INSTRUCTIONS FOR COMPLETION:

GENERAL INFORMATION PAGE:

“RIPDES Permit #”

Include your permit ID # to ensure proper tracking.

“Operator of MS4”

Give the legal name of the person, firm, public (municipal) organization, or any other entity that is responsible for day-to-day operations of the MS4 described in this application (RIPDES Rules 3 & 12). Enter the complete address and telephone number of the operator. Circle the appropriate choice to indicate the legal status of the operator of the MS4.

“Owner of MS4”

If the owner is the same as the operator do not complete this section. Give the legal name of the person, firm,

public (municipal) organization, or any other entity that owns the MS4 described in this application (RIPDES Rules 3 & 12). Do not use a colloquial name. Enter the complete address and telephone number of the owner.

“Certification”

State and federal statutes provide for severe penalties for submitting false information on this application form. State and federal regulations require this application to be signed as follows (RIPDES Rule 12);

For a corporation: by a responsible corporate officer, which means: (i) president, secretary, treasurer, or vice president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information or permit application requirements; and where authority to sign documentation has been assigned or delegated to the manager in accordance with cooperate procedures;

For a partnership or sole proprietorship: by a general partner or the proprietor;

For a Municipality, State, Federal or other public site: by either a principal executive officer or ranking elected official.

SECTION I- MEASURABLE GOALS:

One or more pages, front and back, are provided to report on the status of measurable goals which have been developed to aid in the implementation of strategies, procedures, and programs used to achieve each of the six minimum control measures in Part IV.B of the General Permit. Please type or print in the appropriate areas only. If additional space is needed please submit attachments to the appropriate minimum control measure following the format provided.

Where indicated, please provide the status of the pertinent local ordinances and City or Town Solicitor’s letter. If these documents have not

previously been submitted to RIDEM, please include them with this Annual Report.

The first section entitled "Required Measurable Goals" includes mainly strategies, procedures, and programs, which **MUST** be developed/implemented by a specific year as mandated by the permit.

The second section entitled "Additional Measurable Goals" provides space to include your own MS4-specific measurable goals not prescribed in the permit (though noted in your Storm Water Management Program Plan), but are intended to aid in the implementation of strategies, procedures, and programs outlined in the permit to comply with each minimum measure.

Example: Public Education and Outreach

"Required Measurable Goals"- Sections IV.B.1.b.2 and IV.B.1.b.4 are considered "Required Measurable Goals" because strategies on how to inform the community on how to become involved in the storm water program and how operators will utilize partnerships, and strategies to list target pollutant sources **MUST** be developed within the first year. These are considered "Required Measurable Goals" because the development of such strategies has a deadline.

"Additional Measurable Goals"- Any further establishment of deadlines, percentages, etc. used to aid the implementation of strategies, procedures, or programs are considered "Additional Measurable Goals." Examples may include: informing 70% of residents about proper fertilizer use; introduction of an ordinance to control pet waste by the end of the third year. These would classify as "Additional Measurable Goals" because they are not prescribed by the permit but are fulfilling overall minimum measure requirements.

"Permit ID #"

The Permit ID # is the part of the permit where you can find a listing or description of the required measurable goal.

"BMP ID #"

The BMP ID # refers to the number assigned to a specific requirement or BMP and reported to the Department in the Storm Water Management Program Plan.

"List Measurable Goal"

A brief description of the measurable goal with the year it must be completed by in parentheses.

"Date(s) Completed"

Enter the date the measurable goal was completed. (Note that this date may have been during previous reporting years.) For ongoing tasks (and shaded areas), please use the space in Section II to describe actions taken to meet the goal, progress, plans, etc.

"Date Submitted to RIDEM"

Enter the date that a required document was submitted to RIDEM as part of meeting a measurable goal. (Note that this date may have been during previous reporting years.)

"If goal was NOT met..."

Complete this section only if you have not yet completed the tasks/measurable goals. If you have not met the measurable goal on time **OR** are on track with meeting the measurable goal on time, please provide a brief description as to why the goal has not been met, the current status of actions needed to meet the goal, any current plans, and the date you foresee the goal to be completed by. Please keep this section brief. **For items that have been shaded, please use Section II to describe what new and/or ongoing activities have been undertaken or progress made toward meeting the measurable goal.**

SECTION II- OVERALL EVALUATION:

This section provides narrative space for a more descriptive explanation and evaluation of the actions taken to satisfy each of the minimum control measures.

Please provide a general summary of actions taken (implementation of BMPs, development of procedures, events, etc.) to meet the measurable goals of the minimum measure. **Be sure to identify parties responsible for achieving each measurable goal** and reference any reliance on another entity for achieving any measurable goal.

Describe whether each measurable goal was completed within the time proposed in the MS4 General Permit or your Storm Water Management Program Plan (SWMPP). Why or why not? Provide a progress report and discussion of activities that will be carried out during the next reporting cycle to satisfy the requirements of the minimum measures. If applicable, assess the appropriateness of the actions taken to meet the requirements of the minimum measure. In determining appropriateness, you may want to consider at a minimum the local population targeted, pollution sources addressed, receiving water concerns, integration with local management procedures, and available resources and violations or environmental impacts eliminated or minimized.

Also, discuss the effectiveness of the implementation of BMPs to meet the requirements of the minimum measure and the overall effectiveness of the minimum measure. Describe your progress towards achieving the overall goal of reducing the discharge of pollutants. Please include assessment parameters/indicators used to measure the success of the minimum measure. Also include a discussion of any proposed changes to BMPs or measurable goals.

After evaluation, it may be necessary to make changes or modifications to your Implementation Schedule if the time frame, appropriateness or effectiveness cannot be assured. If so, please include descriptions of changes or modifications, and detailed justification in the appropriate sections.

SECTION III- ADDITIONAL ANNUAL REPORT REQUIREMENTS

Section III refers to additional reporting requirements that the MS4 General Permit is required to submit to the Department as part of the Annual Report. Section III requirements apply to Minimum Control Measures 2 through 6.

Minimum Control Measure #2: Section III:
Specify the date of and how the annual report was public noticed. If a public meeting was needed, provide the date and place. Include a summary of public comments received in the public comment period of the draft annual report and planned responses or changes to the program (new or revised BMP's and measurable goals, partnerships, etc.). Be sure to attach a copy of your public notice (Part IV.G.2.h and IV.G.2.i).

Minimum Control Measure #3: Section III.A:
Provide the number of illicit discharges identified, complaints received, violations with a summary of enforcement actions, and unresolved violations that have been referred to RIDEM. Include a short narrative describing the extent to which your system has been mapped (Part IV.G.2.m).

Minimum Control Measure #3: Section III.B:
List location, date found, operator of the physically interconnected MS4, and originating source of newly identified physical interconnections with other small MS4s. Also note any planned or coordinated activities with the physically interconnected MS4 (Part IV.G.2.k and IV.G.2.l).

Minimum Control Measures #4 & 5: Section III.A:
Identify the number of construction and post-construction plan and SWPPP reviews completed during Year 4 (2007) and any further information. This includes, but is not limited to a summary of the reviews, responsible parties, and types of projects reviewed.

Minimum Control Measure #4: Section III.B:
Construction inspection information for erosion and sediment control should be submitted annually as stated in Part IV.G.2.n. Provide a summary of the number of site inspections conducted, inspections that have resulted in enforcement actions, violations that have been resolved and of those unresolved, referred to RIDEM.

Minimum Control Measure #5: Section III.B:
Post-construction inspection information for proper installation of post-construction structural BMPs should be submitted annually as stated in Part IV.G.2.o. This should provide a summary of the number of site inspections conducted, inspections that have resulted in enforcement actions, violations that have been resolved and of those unresolved, referred to RIDEM.

Minimum Control Measure #5: Section III.C:
Inspection information for proper operation and maintenance of post-construction structural BMPs should be submitted annually as stated in Part IV.G.2.p. This should provide a summary of the number of site inspections conducted, inspections that have resulted in enforcement actions, violations that have been resolved and of those unresolved, referred to RIDEM.

Minimum Control Measure #6: Section III.A:
As prescribed in Part IV.B.6.b.1.i of the General Permit, the MS4 operator must identify and list the specific location and description of all structural BMPs in the SWMPP at the time of application and update the information in the annual report.

Minimum Control Measure #6: Section III.B:
Part IV.B.6.b.1.v of the Permit states to identify and report annually, as part of the annual report, known discharges causing scouring at outfall pipes or outfalls with excessive sedimentation. Include Outfall ID #, location, description of the problem, any remediation taken, and the ultimate receiving water body.

Minimum Control Measure #6: Section III.C:
As noted in Part IV.G.2.j of the General Permit, specify any planned municipal construction projects or opportunities to include water quality BMPs, low impact development, or seek to promote infiltration and recharge.

Minimum Control Measure #6: Section III.D:
Please include a summary of results of any other information that has been collected and analyzed. This includes any type of data, including, but not limited to, dry weather survey data (Part IV.G.2.e).

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

Section I:
Complete this section only if your MS4 is subject to an approved TMDL. TMDL requirements may require the implementation of the six minimum control measures to address the pollutants of concern, and/or additional structural storm water controls or measures that are necessary to meet the provisions of the approved TMDL. Be sure to identify the approved TMDL and assess the progress towards meeting the requirements for the control of storm water (Part IV.G.2.d).

Provide a progress report: present status and discussion of activities that have been accomplished or will be carried out during the next reporting cycle to satisfy the requirements of the TMDL. If applicable assess the appropriateness of the BMPs selected under each of the six minimum control measures to meet the requirements of the TMDL. In determining appropriateness you may want to consider, violations or environmental impacts eliminated or minimized.

Please include assessment parameters/indicators that will be used to measure the success of the selected BMPs. Also include a discussion of any proposed changes to BMPs or measurable goals.