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## RIPDES SMALL MS4 ANNUAL REPORT GENERAL INFORMATION PAGE

RIPDES PERMIT #RIR040024

REPORTING PERIOD:  YEAR 4  
Jan 07-Dec 07

**OPERATOR OF MS4**

Name: CITY OF PAWTUCKET			
Mailing Address: 250 ARMISTICE BOULEVARD			
City: PAWTUCKET	State: RI	Zip: 02860	Phone: (401) 728-0500
Contact Person: JACK CARNEY		Title: DIRECTOR OF PUBLIC WORKS	
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**

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 JAMES E. DOYLE

Print Title MAYOR

Signature *James E Doyle* Date 3-7-08



**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.)**

<b>A. REQUIRED MEASURABLE GOALS:</b>				
<b>Permit ID#</b>	<b>BMP ID</b>	<b>List Measurable Goal</b>	<b>Date(s) Completed</b>	<b>If goal was NOT met, briefly list reasons, current status, plans and new date for meeting the goal</b>
IV.B.1.b.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	2	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>B. ADDITIONAL MEASURABLE GOALS:</b>				
		Commitment to the Stormwater Education and Outreach Program through URI NEMO (OPTIONAL - DUE MARCH 2007)	Year 3	
		Attendance at the following trainings: ** 4/24/2007 Making an Impact with LID X 5/10/2007 TR-55 for Plan Reviewers X 12/12/2007 DPW Employee Training	5/10/2007 12/12/2007	List name(s) of attendee(s) at each training: Training was not attended Denis Leach, John Razukiewicz Denis Leach

**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, 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.)

IV.B.1.b.1

The City plans to rely on the Storm Water Education and Outreach Program in cooperation with URI to meet the goals of this measure in future years. The signed commitment form is attached to the Year 3 annual report.  
During Year 4 the City attended the Ad Hoc Stormwater Committee to educate meetings. The City plans to continue attending the Ad Hoc Stormwater Committee in year 5 to comply with this measure.  
This was appropriate and effective for public education and outreach. The DPW director was responsible for completion of this goal.

IV.B.1.b.2

The City plans to rely on the Storm Water Education and Outreach Program in cooperation with URI to meet the goals of this measure in future years. The signed commitment form is attached to the Year 3 annual report. This measure was appropriate and effective for educating the public. The DPW director is responsible for completion of this goal.

Additional Measurable Goals and Activities



**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.)**

<b>A. REQUIRED MEASURABLE GOALS:</b>				
<b>Permit ID#</b>	<b>BMP ID</b>	<b>List Measurable Goal</b>	<b>Date(s) Completed</b>	<b>If goal was NOT met, briefly list reasons, current status, plans and new date for meeting the goal</b>
IV.B.2.b.2.ii	1	Implementation of public involvement activities and description of groups engaged (ONGOING)		PLEASE COMPLETE UNDER SECTION II.
IV.B.2.b.2.iii	2	Public notice of the draft annual report and provide the opportunity for public comment (ANNUALLY)	March 2008	
<b>B. ADDITIONAL MEASURABLE GOALS:</b>				

**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 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.)

IV.B.2.b.2.ii

The City commits to sponsor cleanup activities by at a minimum providing trash bags and disposing refuse collected. The DPW director is responsible for supplying materials and disposing collected waste.  
The City has identified local businesses with large impervious areas and is investigating partnerships with funding sources and existing property owners for retrofits that would help to reduce flows to the MS4 and increase water quality.  
This measure has been appropriate and effective for involving businesses in the community. The DPW director is responsible for developing these partnerships and identifying projects that will be investigated further.

IV.B.2.b.2.iii

The annual report was public noticed on March 6, 2008 in the Providence Journal (see attached public notice). The report was available to the public at the DPW for review and comment. This goal is appropriate to inform the public of the annual report. Completing this annual goal is effective in meeting permit requirements.

Additional Measurable Goals and Activities

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

Date of Public Notice: March 6, 2008	How public was notified: Public notice was printed in the Providence Journal
Was public meeting held?    YES <input checked="" type="radio"/> NO	
Date:	Where:

Summary of public comments received:

As of submission of this annual report, no comments have been received. If comments that generate action are received, the annual report will be revised and resubmitted.

Planned responses or changes to the program:



**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.)**

<b>A. REQUIRED MEASURABLE GOALS:</b>					
<b>Permit ID#</b>	<b>BMP ID</b>	<b>List Measurable Goal</b>	<b>Date(s) Completed</b>	<b>Date Submitted to RIDEM</b>	<b>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.</b>
IV.B.3.b.1	1	Development of an outfall map showing the location of all outfalls and names of receiving waters (DUE YEAR 3)	May 2007	Year 4	A map of the outfalls is attached.
IV.B.3.b.2	2	Tagging outfall pipes if GIS maps are not being developed (OPTIONAL ACTIVITY)			PLEASE COMPLETE UNDER SECTION II.
IV.B.3.b.3	3	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	4	Adoption of Ordinance to prohibit and enforce illicit discharges into the MS4 (DUE YEAR 2)	Year 2	Year 2	City Ordinance Chapter #2794 (Provided with Year 2 annual report)
		Signed Letter from City or Town Solicitor (DUE YEAR 2)	Year 2	Year 2	Signed Letter (Provided with Year 2 annual report)
IV.B.3.b.5.ii, iii, iv, & v	5	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	6	Inspection of all catch basins and manholes for illicit connections and non-storm water discharges (DUE YEAR 4)	Year 4	Year 4	Catch basin inspection forms are attached
IV.B.3.b.5.vii	7	Completion of two dry weather surveys, one between Jan 1 <sup>st</sup> and April 30 <sup>th</sup> and one between July 1 <sup>st</sup> and Oct 31 <sup>st</sup> . (Sanitary sewers- bacteria sampling is only required once between July 1 <sup>st</sup> and Oct 31 <sup>st</sup> ) (DUE YEAR 4)	March 2007	May 2007	Outfall-by-Outfall Description of Findings (Summer) Outfall-by-Outfall Description of Findings (Winter) (both documents are attached to this report)
IV.B.3.b.7	8	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	9	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	10	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>B. ADDITIONAL MEASURABLE GOALS:</b>					

**SECTION II. OVERALL EVALUATION:**

<b>GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS</b>
<p><b>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.</b></p> <p><b>(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)</b></p>
<p>IV.B.3.b.1 The City completed the outfall map, a copy of which is attached. The City contracted Fuss and O'Neill to perform their dry-weather survey during Year 4, which included GPS locating the outfalls. The City Engineer is responsible for maintaining the map.</p>
<p>IV.B.3.b.2 The City GPS located outfalls, and is not tagging outfalls.</p>
<p>IV.B.3.b.3 The City's catch basins are mapped for use by the DPW to perform regular maintenance, cleaning and inspections. The City has just started the GIS database and is incorporating different elements in a priority based order. Incorporation of storm drain mapping into the system is planned as one of the database items and will be incorporated as funds become available. The City has hired a GIS Coordinator who is responsible for development of the database. This measure is appropriate and effective to develop a comprehensive map of the City's storm drain system.</p>

**ILLICIT DISCHARGE DETECTION AND ELIMINATION cont'd**

IV.B.3.b.4

An ordinance was adopted on December 22, 2005 (Chapter 335, Article III), a copy was attached to the Year 2 annual report. The Storm Water Committee, DPW, City Council, and hired consultant were responsible for this goal. It is appropriate to adopt an ordinance. Adopting the ordinance was effective in meeting the required permit goal.

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

The measurable goals under permit sections IV.B.3.b.5.ii, iii, and v were completed in the SWMPP development process prior to Year 1. Details regarding them are included in the executive summary and section 7.4 of the SWMPP. Currently, storm drain related complaints are directed to the Sanitation, Sewer and Recycling Departments. The City has an on-call sewer camera company for all of their combined and separate sewer investigations. The Storm Water Committee, Zoning Department, and DPW were responsible for the completion of this goal.

The measurable goal under permit section IV.B.3.b.5.iv is provided in the ordinance that was adopted (see ordinance attached to the Year 2 annual report). The Storm Water Committee, DPW, and hired consultant were responsible for the completion of this goal.

IV.B.3.b.5.vi

City has over 4,000 catch basins of which 740 were cleaned and inspected in year 4. The City inspects all catch basins on a 3-year cycle. All catch basins had been inspected and cleaned prior to Year 1, and the City is currently on the second round of inspections and cleaning. The Year 4 inspections resulted in 110 repairs and 12 operational modifications which included removal of oil or concrete or installation of floatable controls. This measure is appropriate and effective to maintain the City's catch basins. The DPW director is responsible for this measure.

IV.B.3.b.5.vii

The City hired Fuss and O'Neill to conduct their dry weather surveys in Year 4. It is appropriate to conduct dry weather surveys to determine whether or not there are illicit connections to the stormwater system. Through this investigation 7 outfalls were determined to have dry weather flow, of which 3 were determined to be illicit discharges. Maintenance concerns were also noted at 5 outfalls. The DPW director was responsible for this goal.

IV.B.3.b.7

The procedures for referral were developed during the SWMPP prior to Year 1. Details are included in the executive summary of the SWMPP. Illicit discharges have not been detected where interconnections are involved. This measure is appropriate to coordinate with interconnected MS4s. Since no illicit discharges have been identified that require contacting interconnected MS4s, the effectiveness of this measure is yet to be determined. The DPW director is responsible for this measure.

IV.B.3.b.8

Procedures for referral were developed during the SWMPP prior to Year 1, with the process being put in place during Year 3. Details are included in the executive summary of the SWMPP. During Year 4 there were no unauthorized non-stormwater discharges that were deemed appropriate for referral to RIDEM. Since no unauthorized non-stormwater discharges have been deemed appropriate for referral to RIDEM, the appropriateness and effectiveness of this measure is yet to be determined. The DPW director is responsible for this measure.

IV.B.3.b.9

The City provided IDDE training for municipal employees in Year 3. Training was conducted by Fuss and O'Neill. Attendees were trained on operation of the GPS equipment and procedures for dry weather surveys; however, the City decided to contract out the dry weather surveys after the training had been completed due to staffing constraints. The City plans to rely on the URI Storm Water Education and Outreach Program for training in future years. This measure is appropriate and effective to educate the municipal employees about the storm water concerns in the City. The DPW director is responsible for this measure.

Additional Measurable Goals and Activities
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**SECTION III.A Other Reporting Requirements - Illicit Discharge Inspections to Date (Part IV.G.2.m)**

Total Illicit Discharges Identified: 1	Total Illicit Discharges Tracked: 1
Total Illicit Discharges Eliminated: 0	# of Complaints Received: 308
# of Violations Issued: 0	# of Unresolved Violations Referred to RIDEM: 0
<p>Summary of Enforcement Actions:                  Enforcement actions were not taken. The responsible parties were not identified to issue violations. The discharges were oil in a catch basin and hardened concrete in a catch basin. The oil-contaminated water was removed from the catch basin by an hired contractor. The catch basin was cleaned. The concrete was removed and the catch basin was restored.</p>	
<p>Extent to which the MS4 system has been mapped:                  The City's system has been mapped. The City plans to develop a comprehensive overall map using their new GIS database.</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:
See list attached to Year 2 Annual Report					



**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.)**

<b>A. REQUIRED MEASURABLE GOALS:</b>					
<b>Permit ID#</b>	<b>BMP ID</b>	<b>List Measurable Goal</b>	<b>Date(s) Completed</b>	<b>Date Submitted to RIDEM</b>	<b>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.</b>
IV.B.4.b.1	1	Adoption of Ordinance to require erosion and sediment control, control of other wastes, and sanctions to ensure compliance (DUE YEAR 2)	Year 2	Year 2	City Ordinance Chapter #2792 (Provided with Year 2 Annual Report)
		Signed Letter from City or Town Solicitor (DUE YEAR 2)	Year 2	Year 2	Signed Letter (Provided with Year 2 Annual Report)
IV.B.4.b.2 IV.B.4.b.4	2 and 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	Implementation of procedures to receive and consider information from the public (if relevant.) (ONGOING)			PLEASE COMPLETE UNDER SECTION II.
IV.B.4.b.7	5	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	6	Implementation of procedures for referral to the State of non-compliant construction site operators (ONGOING)			PLEASE COMPLETE UNDER SECTION II.
<b>B. ADDITIONAL MEASURABLE GOALS:</b>					

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**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

An ordinance was adopted on December 22, 2005 (Chapter 410, Article XA), a copy of which was attached to the Year 2 annual report. The Storm Water Committee, DPW, Department of Zoning and Code Enforcement and City Council were responsible for this goal. The ordinance is appropriate for requiring soil erosion and sediment control plans for construction sites discharges to the City's MS4. The effectiveness of this measure is yet to be determined because there has not been any new or re-development greater than one acre since the ordinance was adopted in Year 2.

IV.B.4.b.2

The procedures were evaluated as part of the SWMPP development process. The City reviews plans prior to issuing permits through the Planning Department who uses the checklist attached to the Year 2 annual report. The plan review is conducted by the Site Review Committee who consists of members of the Planning Department, Zoning Department, Department of Public Works, Engineering, Police Department, and Fire Department. Most site plans are also referred to Narragansett Bay Commission for approvals. Additional details regarding this are included in Section 8.2 and Section 8.3 of the SWMPP. The procedures for review of development plans for obtaining permits are listed in the Planned Land Development ordinance. The ordinance includes provisions for consideration of environmental impacts, storm water impacts and erosion issues. The Storm Water Committee, DPW, Department of Zoning and Code Enforcement, and hired consultant are responsible for this goal. It is appropriate and effective to follow procedures for issuance of permits.

IV.B.4.b.4

The City reviews all plans regardless of size prior to issuing permits. Plans are reviewed by the applicable members of the Site Review Committee (Planning Department, Zoning Department, Department of Public Works, Engineering, Police Department, and Fire Department). Most site plans are also referred to Narragansett Bay Commission for approvals. Pawtucket reviews for no-net increase and NBC requires 100% retention on site wherever feasible. Additional details regarding this are included in Section 8.3 and Section 8.4 of the SWMPP. The City is mostly developed and does not often have projects larger than one acre. This measure is appropriate and effective. The Department of Zoning and Code Enforcement is responsible for reviews and issuing permits.

IV.B.4.b.6

The procedures were established during SWMPP development prior to Year 1. No actual public comments on new development stormwater issues have been received to date. This measure is appropriate for receiving and responding to public comment on new development. Effectiveness of this measure is yet to be determined as no public comments have been received by the city thus far. The building department is responsible for this measure.

**CONSTRUCTION SITE STORM WATER RUNOFF CONTROL cont'd**

**IV.B.4.b.7**

All sites are inspected by the Zoning Department. Current inspection frequency is being evaluated and necessary resources are being reviewed. The mechanisms for inspections were evaluated as part of the SWMPP development process. Details regarding this are included in Section 8.3 and Section 8.4 of the SWMPP. Inspections are appropriate and effective. The Storm Water Committee and Department of Zoning and Code Enforcement are responsible for this goal.

**IV.B.4.b.8**

The Zoning Department would refer non-compliant operators to the State if needed. The City did not need to refer any non-compliant operators in Year 4. The Storm Water Committee, Department of Zoning and Code Enforcement, and DPW are responsible for this goal. The appropriateness and effectiveness of this measure are yet to be determined, as no operators have needed to be referred to the state to date.

**Additional Measurable Goals and Activities**

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

# of Construction Reviews completed: None

Summary of Reviews and Findings: The City is approximately 98% developed. No plans were during this reporting year.

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

# of Site Inspections:None

# of Complaints Received: None

**CONSTRUCTION SITE STORM WATER RUNOFF CONTROL cont'd**

# of Violations Issued: None	# of Unresolved Violations Referred to RIDEM: None
Summary of Enforcement Actions: N/A	



**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.)**

<b>A. REQUIRED MEASURABLE GOALS:</b>					
<b>Permit ID#</b>	<b>BMP ID</b>	<b>List Measurable Goal</b>	<b>Date(s) Completed</b>	<b>Date Submitted to RIDEM</b>	<b>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.</b>
IV.B.5.b.4	1	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	2	Coordination with existing State programs requiring post-construction storm water management (ONGOING)			PLEASE COMPLETE UNDER SECTION II.
IV.B.5.b.6	3	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	4	Adoption of Ordinance to address post-construction runoff from new development and redevelopment (DUE YEAR 2)	Year 2	Year 2	City Ordinance Chapter #2793 (Provided with Year 2 annual report)
		Signed Letter from City or Town Solicitor (DUE YEAR 2)	Year 2	Year 2	Signed Letter (Provided with Year 2 annual report)
IV.B.5.b.10	5	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	6	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	7	Identification of existing structural BMPs (ONGOING)			PLEASE COMPLETE UNDER SECTION II.
<b>B. ADDITIONAL MEASURABLE GOALS:</b>					

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


**SECTION II. OVERALL EVALUATION:**

<p><b>GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:</b></p> <p><b>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.</b></p>					
<p>IV.B.5.b.4                  The City reviews all plans prior to permitting using the previously submitted checklists. Plans that include storm water controls are referred to NBC for review. Applicants will not receive permits until documentation from NBC has been submitted to the City. Currently, the Engineering Department has developed a system to perform thorough site plan reviews on all projects containing storm water utilities and/or in-ground storm water structures (e.g., catch basins, vortechs units). All site plans that include storm water provisions are reviewed by the Engineering Department and NBC. The City did not receive applications for sites which increased impervious area, so post-construction reviews were not required. Reviews are appropriate and effective. The Planning and Zoning Department is responsible for ensuring reviews and issuing permits. The Site Plan Review Committee is responsible for reviews.</p>					
<p>IV.B.5.b.5                  The City requires applicants to receive approvals from State programs prior to permitting any site. Currently, any site plans that the Engineering Department reviews that needs approval from RIDEM are commented as such and the requirement is made known to the design engineer (applicant). Approval is not given by the Engineering Department until confirmation is received from RIDEM. It is appropriate and effective to require State program reviews prior to permitting new developments.</p>					
<p>IV.B.5.b.6                  The general process was established during SWMPP development prior to Year 1. The City refers any new industrial discharges to RIDEM, as well as NBC, for approval. The City did not have new industrial discharges in Year 4. The Planning Department is responsible for referring new discharges to the applicable agencies. It is appropriate and effective to refer new industrial discharges to applicable State programs.</p>					

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

IV.B.5.b.9

An ordinance was adopted on December 22, 2005 (Chapter 410, Article XB) and is attached to the Year 2 annual report. Currently, the Engineering Division requires and reviews a maintenance plan for all storm water structures as part of the plan review process. The Storm Water Committee and City Council are responsible for this goal. It is appropriate to adopt a regulatory mechanism. Adoption of the ordinance is effective in meeting the requirements of the permit.

IV.B.5.b.10

The City currently inspects all sites at completion of construction and does not issue certificates of occupancy until any discrepancies have been addressed to the satisfaction of the City. Inspections are performed by the Zoning Department. Additionally, the ordinance that was adopted requires that maintenance schedules be submitted in accordance with the Rhode Island Stormwater Design and Installation Standards Manual and Soil Erosion and Sediment Control Handbook, and responsible parties be identified. When BMPs are to be deeded to the City, documentation from the City must be received acknowledging responsibility. The City will follow the recommended procedures, as approved, for long-term maintenance. The applicant is responsible for stabilization. Inspections are appropriate and effective. The Zoning Department is responsible for inspections.

IV.B.5.b.11

Procedures for implementation of long-term O&M for selected BMPs were established during SWMPP development prior to Year 1. The City of Pawtucket has not experienced any new or re-development of significant magnitude in the recent past. Notwithstanding, O&M procedure regulations were adopted during Year 2 by way of a City Council vote to ensure that O&M procedures are in place should any development occur requiring BMPs with long-term O&M requirements. Identifying, tracking, and enforcing long-term O&M procedures for selected BMPs are appropriate and effective measures. The City Council was responsible for implementing this control measure, and the DPW is responsible for identifying, tracking, and enforcing long-term O&M of selected BMPs.

IV.B.5.b.12

The City developed procedures to identify existing structural BMPs. Their plan is to map the existing structural BMPs during the storm water mapping portion of the GIS database development from which a list could be developed. Some of the structural BMPs, and all of the City-owned BMPs have been identified. The City does not take ownership of BMPs when constructed, so BMPs that have already been installed will be tracked when discovered and incorporated into the GIS database. New BMPs will be added to the mapping system as the projects are completed. Development of a program to identify BMPs is appropriate and effective. Identifying BMPs according to the program is appropriate. The effectiveness of identifying the BMPs is yet to be determined. The DPW director and GIS coordinator are responsible for completing this goal.

Additional Measurable Goals and Activities

N/A

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

# of Post-Construction Reviews completed: None

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

Summary of Reviews and Finding: N/A

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

# of Site Inspections: None	# of Complaints Received: None
# of Violations Issued: None	# of Unresolved Violations Referred to RIDEM: None
Summary of Enforcement Actions: N/A	

**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: None	# of Complaints Received: None
# of Violations Issued: None	# of Unresolved Violations Referred to RIDEM: None

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

Summary of Enforcement Actions:

N/A



**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.)**

<b>A. REQUIRED MEASURABLE GOALS:</b>				
<b>Permit ID#</b>	<b>BMP ID</b>	<b>List Measurable Goal</b>	<b>Date(s) Completed</b>	<b>If goal was NOT met, briefly list reasons, current status, plans and new date for meeting the goal</b>
IV.B.6.b.1.i	1	Identification, location and description of all municipally owned structural BMPs (ONGOING)		PLEASE COMPLETE UNDER SECTION II.
IV.B.6.b.1.ii	2	Inspection and cleaning BMPs (ONGOING)		PLEASE COMPLETE UNDER SECTION II.
IV.B.6.b.1.iii	3	Annual catch basin inspection and cleaning program (ANNUALLY)	Year 4	Approximately 740 catch basins were cleaned in Year 4
IV.B.6.b.1.iv	4	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	5	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	Annual road sweeping of all streets and roads within the regulated area annually (ANNUALLY)	Year 1 Year 2 Year 3 Year 4	
IV.B.6.b.1.vii	7	Maintenance activities, schedules and long-term inspection for controls to reduce floatables (ONGOING)		PLEASE COMPLETE UNDER SECTION II.
IV.B.6.b.1.viii	8	Proper disposal of removed waste from the MS4 (ONGOING)		PLEASE COMPLETE UNDER SECTION II.
IV.B.6.b.4	9	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)	Year 3	BMPs are being implemented as funds and/or labor become available.

**POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd**

IV.B.6.b.5	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	11	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	12	Implementation of procedures for assessing potential water quality impacts to existing and new flow management projects (ONGOING)		PLEASE COMPLETE UNDER SECTION II.
<b>B. ADDITIONAL MEASURABLE GOALS:</b>				

**SECTION II. OVERALL EVALUATION:**

<p><b>GENERAL SUMMARY, STATUS, APPROPRIATENESS AND EFFECTIVENESS OF MEASURABLE GOALS:</b></p> <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><b>(Note: Identify parties responsible for achieving the measurable goals and reference any reliance on another entity for achieving measurable goals.)</b></p> <p>IV.B.6.b.1.i This measurable goal was completed in the SWMPP development process prior to Year 1. Details regarding this are included in Section 10.2.2 of the SWMPP. There are two known detention ponds and one oil/water separator in the City. The Storm Water Committee, DPW, and hired consultant were responsible for the completion of this goal.</p>
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**POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd**

IV.B.6.b.1.ii

The City owns the oil/water at the highway garage which is inspected at least annually. Inspection records are attached to this report. Inspection and maintenance of the oil/water separator is appropriate and effective. The DPW is responsible for this measure. Inspections have been taking place annually since Year 1.

IV.B.6.b.1.iii

The City has a catch basin inspection, cleaning, and maintenance program that is based off of maps that were developed for this purpose. In Year 4, 740 catch basins were cleaned, none of which were overfull. Approximately 110 repairs were made and 12 operational modifications (including oil removal and cleaning, concrete removal, and floatable control device installation). Approximately 707 tons of material was collected from catch basin cleaning. Approximately 1583 tons of material was disposed from a combination of catch basin cleaning and street sweeping, and 715 tons of salt and 743 tons of sand were purchased for road maintenance, providing 100% collection of material that was put down for road maintenance. The City is not able to meet the annual catch basin cleaning requirement, but believes that the routine maintenance, inspection, and repair program that is performed provides a high level of pollution control. The DPW staff has recently had high turn over, making even the current frequency of once every three years difficult to meet. The City has experienced a large reduction in flooding issues that once created a significant nuisance in the City due to their current programs. The current inspection and cleaning frequency has been appropriate and effective. The DPW is responsible for this measure.

IV.B.6.b.1.iv

This measurable goal was completed in the SWMPP development process prior to Year 1. Details regarding this are included in the executive summary of the SWMPP. The City is 98% curbed so the possibility of shoulder erosion is minimal. In the next few years, the City will most likely be entirely curbed. If problems arise, DPW staff discover it during their weekly street sweeping, notify a supervisor and the problem is corrected. The Storm Water Committee, DPW are responsible for the completion of this goal. Inspections during roadwork by municipal employees are an appropriate way of observing any erosion of roadside shoulders and ditches. Those erosive conditions found will be treated with rip-rap or vegetative stabilization. It is effective to repair erosive conditions identified during roadwork.

IV.B.6.b.1.v

The current procedures are described in the SWMPP in Section 10.2.2 The DPW is responsible for implementation of this measure. It is appropriate to have procedures to identify outfalls with chronic problems. The effectiveness of this measure is yet to be determined.

IV.B.6.b.1.vi

All streets swept weekly on the day following trash collection between April 1 and November 1. Approximately 1,790 tons of street sweepings were collected and disposed in Year 4. Combined with catch basin cleaning represents 100% removal of material placed for road maintenance. This measure has been appropriate and effective. The DPW is responsible for this measure.

IV.B.6.b.1.vii

The City sweeps all streets the day after trash collection between April 1 and November 1, weather permitting. This has been an effective measure in reducing floatables and sediment collection in catch basins. The City has also installed outlet hoods on 6 catch basins in Year 3 and plans to install 10 more in Year 4. The City's program of catch basin inspection, street sweeping, and project identification has been appropriate and effective in reducing floatables and flooding problems in the City. The DPW is responsible for this measure.

IV.B.6.b.1.viii

This measurable goal was completed in the SWMPP development process prior to Year 1. Details regarding this are included in the executive summary of the SWMPP. The DPW and hired consultant were responsible for the completion of this goal. It is appropriate to dispose of municipal wastes in a lawful manner. The City will continue to dispose of wastes in accordance with applicable State requirements. The proper disposal of waste continues to be an effective way of removing wastes from municipal areas.

IV.B.6.b.4

The City implements activities as funds and/or resources become available. The City plans to identify priority projects that should be considered in Year 4 that will focus on the impaired waterbodies and meeting approved TMDLs. This measure has been appropriate and effective in identifying activities that should be included or modified for the City's specific needs. The Stormwater Committee and DPW are responsible for completion of this goal.

**POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd**

<p>IV.B.6.b.5                  Inspections of industrial facilities owned and operated by the City of Pawtucket are performed on a regular basis. Need for corrective action is identified and appropriate actions are taken. Nothing beyond routine maintenance has been required to date. This measure has been appropriate and effective in limiting pollutant discharges to the stormwater collection system by municipally owned industrial facilities. The facility operators and team members identified in the Stormwater Pollution Prevention Plans (SWPPP) are responsible for this measure.</p>
<p>IV.B.6.b.6.                  The City has joined the Storm Water Education and Outreach Program in coordination with URI and plans to provide additional training through this program. The City provided in-house IDDE training for DPW staff, and sent staff to stormwater training seminars. This measure was appropriate and effective in making staff more aware of stormwater related issues in the City. The DPW is responsible for this measure.</p>
<p>IV.B.6.b.7                  The City identified procedures in Year 2 as listed or referenced in the RTC attached to the Year 2 annual report. The Storm Water Committee and DPW are responsible for the completion of this goal. Developing procedures for consideration of flow management projects is appropriate. The effectiveness of this measure is yet to be determined.</p>
<p>Additional Measurable Goals and Activities</p>

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

BMP ID:	Location:	Name of BMP Owner/Operator:	Description of BMP:
Basin 1	Transfer Station	City of Pawtucket	Detention Basin
Basin 2	Industrial Highway	Stop and Shop Complex	Detention Basin
Oil/Water Separator	Highway Garage	City of Pawtucket	Oil/Water Separator

**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:
None Identified				

***POLLUTION PREVENTION AND GOOD HOUSEKEEPING IN MUNICIPAL OPERATIONS cont'd***

**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).**

None

**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).**

None



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

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**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.

There are no impaired waters in the city for which an approved TMDL document is available.



# 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 10<sup>th</sup> 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***

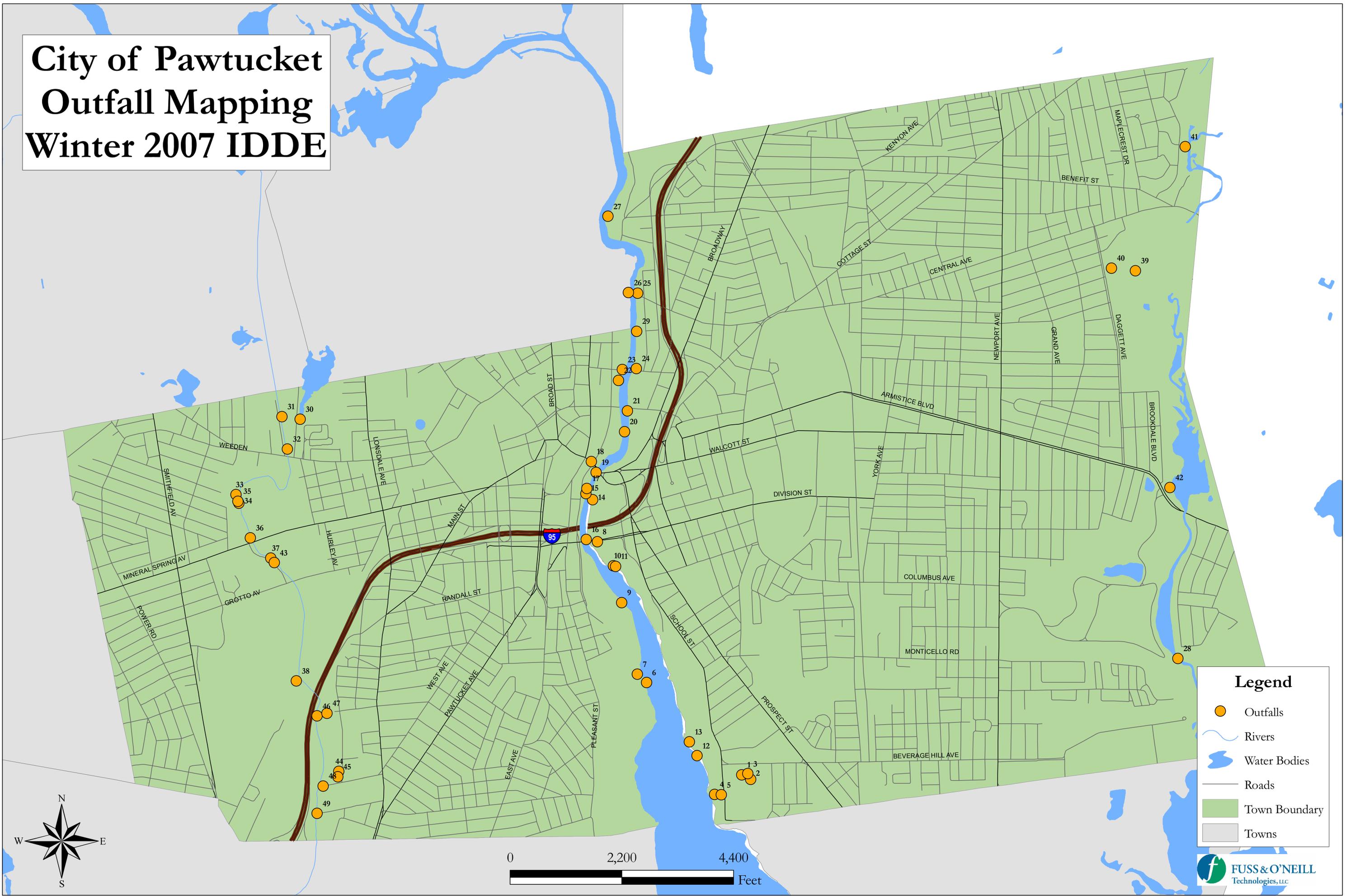
#### **Section I:**

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.

# City of Pawtucket Outfall Mapping Winter 2007 IDDE



**Legend**

- Outfalls
- Rivers
- Water Bodies
- Roads
- Town Boundary
- Towns

2007

1-9-	Monticello - York	2		
	York 270	1		
	265 York	1		
	IN FRONT OF Barchini bakery	1		
	SA ANTONIO WAY	2	13-	6
1-10	DUNNELL - WEST	2		
	SA ANTONIO WAY	2		
	DUNNELL - PAWT AVE	1		
	BOUTWELL - PAWT AVE	1		
	BOUTWELL - WEST	1	20 -	16
1-11	LORANE - WEEDEN	1		
	LORANE - COOPER	1		
	HOPE - MSA	2		
	HOPE - WEEDEN	1		
	HAWLOCK - WEEDEN	1		
	BALDWIN - LARCH	1		
	ABBOT - LORRAIN	1		
	COOPER - LARCH	1		
	LORRAIN MSA	1	30 -	21

1-12	Archer - Maplecrest	3		
	Maplecrest - Walter	1		
	Rice - Haren	1		
	70 Rice	1		
	10 Rice	1		
	28 Rice	1		
	Maplecrest - benesit	1		
	107 Maplecrest	1		
	105 Maplecrest	1		
b	Archer - Claws	1		
1-16	147 Cannon	2		
	37 Liberty	1		
	Liberty, Burgess	1		
	134 Fuller	1		
	Gilman - Fuller	1	48	32
1-17	East - Cambria Ct	1		
	Snayles - Pawt	2		
	Kimball - bootwell	1	52	40

2-21	Benefit - Grand	1		
	Monroe - Cushman	1		
	Cushman - Grand	4		
	Cottage - Madison	3		
	Cottage - Grand	1		
	Cottage - Monroe	1	- 62	- 24
2-22	Hatfield - Remisice	1		
	175-170 - Hatfield	1		
	Littlefield - Remisice	2		
	155 Littlefield	1		
	Littlefield - Evergreen	1		
	Evergreen - Newport	1		
	Hatfield - Evergreen	1		
	Hatfield - Remisice	1		
	54 Hatfield -	1		
	Dump	1	73	47
3/10	Sales 248-250	2		
	First - Empire	3		
	Federal - Second	1		
	Federal - First	1		
	Empire - Burgess	1		
	Burgess - Federal	1		
	Bloomfield - Federal	1		
	Empire - Bloomfield	1	84	
3/13	39 Fuller -	1		
	Fuller - Gilmore	2		

	3/13	127 Fuller	1	
		Fuller - Burgess	1	
		Balch - Burgess	1	
		30 Fuller	1	
		Balch - Gilmore	1	
4		76 Balch	1	
		Applington - Broadway	2	
		Fremom - Central	2	
		Demaris - Bev. Hill	2	99
	3/28	PAWT AVE - STERRY	1	
		PAWT AVE - AUBERIN	2	
		275 PAWT AVE	1	
		Clyde - PAWT AVE	1	
		EAST AVE - School	1	
		EAST AVE - Cambriact	1	
47		Dorset - Cambriact	1	107
	3-29	413 CENTRAL	1	
		364 ARMISTICE BLVD	1	
		CUTE - Memorial Dr	2	
		LINWOOD - PROSPECT	2	
		VARNUM - Power Rd	1	
		TRISTE - Power Rd	1	
		SENECA - Power Rd	1	
		Grotto Ave - Smithfield	1	
		SMITHFIELD - NATHANIEL	3	
		PROSPECT - Fruit	3	
		SUMMIT - DIVISION	1	124

3-30	Cottage - Blackburn	1	
	867 Cottage	1	
	174 Woodbury	1	
	Woodbury - Gould	1	
	Gould - Schode	1	
	Bloodgood - Gould	1	
	Bloodgood - Benefit	2	
	Elmhurst - Cottage	2	
	AMES - Fleet	1	
	80 AMES	1	
	AMES - Washburn	1	
	AMES - Cushman	1	138
4-4	SAYLES - West	2	
	Anthony - West	2	
	Belmont - West	2	
	Warren - West	2	
	Nancy - West	2	
	527 West	2	
	Trenton - West	2	
	Providence - West	2	
	Glenwood - West	2	156
	Webster - Broadway	1	
	Coyle - Broadway	2	
	110 Coyle	1	
	Benefit - BATES	1	

benefit - BATES 1  
 Kenyon - Cottage 2  
 Benjamin Farm 1  
 306 Mendon 1  
 Mendon Lodi 1  
 Kenyon - WALTER 2  
 142 Kenyon 1  
 119 Marl Street 1  
 Beehill Pine Grove 1  
 47 Olympia 2  
 118 Olympia 2  
 27 Pine Grove 2  
 109 Dewey 1  
 Down benefit 1  
 Clinton benefit 1  
 benefit Checkard 1  
 Down - Oriol 1  
 Oakdale - Down 1  
 Oakdale - Down 1  
 Francis - Smithfield 1  
 Oriol - Overland 1  
 Carpenter Coleman 2  
 Summer - Coleman 1  
 21-24 Beecher 2  
 Beecher Lloyd 1  
 Beecher Coleman 1

DAVIDS - CENTRAL	2
DAVIDS ALFA	1
ALLEN Broadway	1
LAWRENCE Broadway	2
DAVIDS Lupine	1
387 Broadway	1
Broadway CENTRAL	2
ALFRED PERRIN	2
464 ARMISTICE	1
PERRIN ALBERT	2
VINE Little Field	2
VINE HATFIELD	2
75 PULLEN	2
LITTLE ARMISTICE	1
VINE NEWPORT	1
HATFIELD ARMISTICE	2
PERRIN VINE	1
HATFIELD FLOORS	2
FREEMAN - Cottage	2
38 FLINT	1
GOFF AFTER DATED TO	pin 4
COTTAGE NEWPORT	2
COTTAGE - BRADFORD	1
275 SPRING	2
EXCHANGE - ROSEVELT	1
GRANDS CHURCH	1

215 hazard		1
McCrabe -	DATES	1
Rosevelt	bates	1
Rosevelt	mendon	2
Dickens		4
Southbend	LeFField	1
warren -	ESTEN	1
prospect	melrose	1
cantor	mendon	1
Yank	CANTOR	1
hunts	Whitrap	1
prospect	melrose	1
Thurbere	CENTRE	1
Shaw	hazard	2
Daniel	blackston	1
Jackson		2
CENTRE	FARMUM	3
Cottage	bradley	1
bevesit	FARMUM	2
34 belmore		2
Wood haven	Forest park	1
London	Grand	1
windsor	Grand	1
Orrest	winnick	11
Maplecrest	weldon	2

		C-6	Tons
MILW Sp - bagley	2		6-1
Fontain MSA	1		
545 MSA	1		
Grosvenor - Smithfield	2		
260 Smithfield	1		64
Smithfield	1		
Varum Smithfield	2		65
Tennere Smithfield	2		
Fontain Central	2		
Fontain Church	1		
Park Carleton	1		
Park Church	1		
Man Heron	1		
Man West	1		
Trenton Man	1		
1080 West	2		
1060 Man	1		
Heron West	1		
West Trenton	1		66
Williams PAWT	2		
Cover PAWT	2		
Edge PAWT	2		
55 Wisour	2	297-256	

55

6-1 Newell - Hayward 1  
 Park - Church 1  
 Darrow - blackstone 1  
 Jackson - hugh 1 - 301 258

64 winter School Thru Rd 6100 3  
 York Ave - Hamlet 2 - 306 260

65 Broadway - Baxter 1  
 102 STERNS 1  
 107 STERNS 1  
 STERNS - Cottage 1  
 74 STERNS 1  
 STERNS BARNARD 1  
 STERNS - Cumberland 2  
 STERNS - Aiden 1  
 Mowry - county 2  
 24 Dawson 2  
 Dawson. county 2  
 46-47 Dawson 2 - 323- 266

66 Bloomfield empire 2  
 Bloomfield Federal 4  
 Bloomfield STATE 2  
 Ferris Burgess 2

56

84 Ferris 1  
 York Ferris 1  
 York Balch 1

6-8	York	1	
	York - Greeley	1	
	Benedict - York	2	- 523 - 270
6-11	Vivian - power	2	
	urban	2	
	VIVIAN	2	329 273
6-12	hamlet - Lehigh	1	
	NY/field	1	
	Byron - Oregon	1	
	261 benefit	1	
	162 Columbia	2	
	77 Columbia	1	
6-14	styles - whitman	1	
	MAGIL - whitman	1	
	Whitman - Sherman	2	
	288 Styles	1	
	8 Thomas	1	- 342 - 283
6-15	Sisson - whitman	3	
	MAI - Sisson	1	
	MAGIL whitman	1	
	SSON DUNNELL	1	
	DUNNELL STERRY	1	
	58 MAGIL	1	
	DUNNELL - MAGIL	2	
	west knowledge	2	- 354 - 390

6-19 Sharon

		Polo Memorial	2	
0		MEMORIAL SHARON	2	
		GROTO - SMITHFIELD	1	
		MSA - LEGON	2	
12		DAVER - MEMORIAL	2	
		POLO BOCO	2	
		BOCO DAVER	2	
		SENATE BOWEN	2	
		Greeley - Gilmore	4	
		60 Greeley	1	
		616 York RR	1	
		663 York	1	
		York Evergreen	1	
		WALCOTT NEWPORT	1	- 379 397
	620	MEMORIAL - POLO	2	
3	JPT	DUNNELL MAGILL	1	
		MAGILL DORRANCE	1	
		WEST - BOUTWELL	1	
		DORRANCE BOUTWELL	1	
		WEST STYLES	1	
		WEST RYMAN	1	
		Sherman one way	1	
		STYLES DORRANCE	1	
10		STYLES - WHITMAN	1	

	BIS SYLES	1	
	MAN SYLES	1	
6-24	AMHURST SmithField	1	
	W FOREST - power	1	
	W FOREST - SmithField	2	
	W LAWN SmithField	2	
	SmithField - MSA	1	419-401
6-25	PRINCETON - YORK	1	
	NOTRADAM BEV. HILL	1	
	PLAIN - Dodge	2	
	PROSPECT - BEV HILL	1	
	PROSPECT FRED	1	
	FRED plain	1	
	dodge BEV HILL	2	
	DEY BEV HILL	1	
	FRED PLAIN	1	423-412
6-28	MAGILL - DANIEL	4	
	WESTFOREST SmithField	1	
	ORCHARD SmithField	2	
	OAKDALE SmithField	2	
	Finch SmithField	2	
	STEADMAN AUDERTON	4	
	CHANDLER SmithField	1	-438-420

7/2	Raymond - Louder	1		
	Fontin - Oak Hill	2		
	Fontin	6		
	Raymond	2		
	Louder	3	- 451	425
7/6	Sabin	10		
7	Lupine Japonica	1		
	Woodbine broadway	1		
	Woodbine Sabin	1		
	CONANTON Sabin	3	- 467	429
7/5	LINWOOD	4		
	Exeter	2		
	Japonica	3		
	MARGHON - Sabin	3		
	MAGNOLIA	1		
	MANS	2		
	FRIEGHT Japonica	2		
	Frieght	3	- 487	435
7/10	evergreen	3		
	Endfield	2		
	Liberty	1		
	bloomfield	1		
	Burgess	1		
	WALCOTT	2		
	Greenfield	3		
	Mayfield	1	- 500	340

7/11	OAKLAND	4	
	Oakland Newport	1	
	Robinson	1	
	Perrin	1	
	Hughes	1	
	York	1	509-342
7/16	Linwood School	5	
	Exeter School	2	
	Fenwood School	5	
	TALCOT School	1	523
7/20	WEBSTER	3	
	CONSDAMON	2	
	COYLE	2	
	98 WYHAM	2	
7/21	Bloggett Wyham	1	
	Glenwood - PAW	2	
7/24	Young Pond	2	
	Pond	3	
	Beachwood	1	
	Brewster	1	
	Linwood	1	
	Orangeville	1	
	RT MC	1	545-359
7/31	Olypa	1	
	Scarborough	1	
	Miles - MANISTEE	4	551 361

8/1

8-14

9/6

9/11

8/1	pleasant	3		
	TART	1		
	winter	1	- 556 -	365
8-14	high	3		
	blackstone	1		
	ROSEVIEW	1		
	Miller	1	- 642	367
9/6	Young - pond	2		
	Arch - pond	1		
	pond - Brewster	1		
	Dunnel w - RT Ave	1		
	RT Ave Exeter	1		
	RT Ave Melrose	1		
	RT Ave Brewster	1		
	204 RT Ave	1		
	RT Ave Dannel	2		
	371 benefit	3	- 626	636
	Oliver Loveland			
9/11	Courtney	3		
	Louden - Berkhill	2		
	62 Louden	11		
	Gill - Courtney	1		
	Berkhill Lowell	1		
	Lowe - Berkhill	1		
	French Johnson	1		

	Johnson - MAYNARD	1	
	Johnson DENVER	1	639-648
9/20	BROADWAY, JAFFER	1	
	EAST ST PARK	1	
	EAST ST DUNKIN DONUTS	1	
	Gooding FOUN TUN	2	
	Gooding BROADWAY	2	
	171 FIRST	1	647-656
9/21	CANTONIA - EAST ME	1	
	HARVARD PARK	2	
	ARKANSAS PARK	1	
	STREANLIN PARK	1	
	PARK NEWTON	2	
	PARK DARTMOUTH	1	
	GLENWOOD PARK	2	
	EAST LAFFAYETTE	1	
	RIDGE DARTMOUTH	2	
	RIDGE PARK	2	662-676
9/25	CENTRAL DANIEL	2	
	SCARBOROUGH NEWPORT	3	
	MONICELLO NEWPORT	2	
	WOODHAVEN COLUMBIAS	1	
	RODGERSWOOD NEWPORT	2	
	ROSMERE YPM	1	
	ROBINSON	1	
	ROBINSON PARK	1	

	penrod oakland	1		
248	oakland	1		
	oakland YORK	1		
	Robinson Darnley	1		
9/27	Johnson Tyler	2		
	61 Johnson Claver	2		
	115 Johnson	1		
6	Johnson Southwell	2		
	Johnson Myrtle	1		
	54-56 Johnson	1	688	680
10/26	Bristol - Stafford	1		
	492 beverly	2		
	20 Lakewood	3		
	Gilmore - Gravelly	6		
	Meredon - Akin	3	703	690
10/29	west-harrison	4		
	hillside - Epst	4	711	699
676	11/2 Lee Newport	1		
	Harris Tweed	2		
	60 Harris	2		
	Cottage Harris	1		
	Harris Newport	1		
	Cameron Tweed	1	719	703

11-2	LINTON - CENTRAL	1	
	WILLARD CENTRAL	1	
	HANKEY CENTRAL	1	
	NORRIS CENTRAL	1	
	MARSH CENTRAL	11-725	706
11-29	BUCKLIN - TWEED	1	
	BUCKLIN NORRIS	1	
	CHAPLIN TWEED	1	
	CHAPLIN NORRIS	1	729- 707



**APPENDIX A**

**OUTFALL-BY-OUTFALL DESCRIPTION OF FINDINGS**

**NOTES:**

DWV=Drain, Waste, Vent Pipe

FES= Flared End Section

HDPE =high-density polyethylene pipe

NBC=Narragansett Bay Commission

N.D.=Not Detected (i.e., below the limit of detection)

RCP=Reinforced Concrete Pipe

"Picture" refers to the last three or four digits of the photograph number on the included CD

Outfall [unnumbered]	
Latitude	41°52' 29.3" N
Longitude	71°24'36.91" W
Time and Date Examined	10:00 am on August 3, 2007
Outfall description	6-inch DWV
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located on the property of a single-family house under construction on a lot located on Owen Street at the intersection of Fairlawn Avenue. Outfall is on the east side of the lot at the fence line.
Maintenance Issues	The pipe has been discharging recently. Erosion, brown staining, and toilet paper were observed at the outlet of the pipe.
Picture	3327, 3328



Outfall 001	
Latitude	41°51'36.2" N
Longitude	71°22'22.8" W
Time and Date Examined	11:55 am on July 26, 2007
Outfall description	24-inch RCP
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located in the rear of 750 School Street. Discharge is to a dry stream bed leading to the Seekonk River.
Maintenance Issues	None observed
Picture	001

Outfall 002	
Latitude	41°51'35.3" N
Longitude	71°22'20.5" W
Time and Date Examined	12:00 pm on July 26, 2007
Outfall description	24- inch RCP
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located in the rear of 750 School Street. Discharge is to NBC Outfall 218, discharging to the Seekonk River.
Maintenance Issues	None observed
Picture	002



Outfall 003	
Latitude	41°51'36.4" N
Longitude	71°22'21.2" W
Time and Date Examined	12:05 pm on July 26, 2007
Outfall description	Concrete structure
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located near the intersection of School Street and Beverage Hill Road, near the PRM Concrete property. NBC Outfall 218.
Maintenance Issues	None observed
Picture	003, 004

Outfall 004	
Latitude	41°51'32.4" N
Longitude	71°22'29.9" W
Time and Date Examined	12:08 pm on July 26, 2007
Outfall description	One 8-inch DWV pipe and one 12-inch HDPE pipe.
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located in the rear of the parking lot of an unnumbered industrial building, located on the west side of School Street at Beverage Hill Avenue. Discharge is to the Seekonk River. This outfall is the discharge point of a Vortech™ storm water treatment chamber.
Maintenance Issues	None observed
Picture	005



Outfall 005	
Latitude	41°51'32.3" N
Longitude	71°22'28.1" W
Time and Date Examined	12:10 pm on July 26, 2007
Outfall description	12 inch RCP with F.E.S.
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located on School Street, just across the street from the batching plant of PRM Concrete. Discharge is to the Seekonk River. Marked on City mapping as: "O.F. 019".
Maintenance Issues	None observed.
Pictures	006, 007, 008 (Outfall is visible about 10 feet above the concrete channel).

Outfall 006	
Latitude	41°51'54.1" N
Longitude	71°22'47.5" W
Time and Date Examined	1:30 pm on July 26, 2007
Outfall description	24 inch RCP
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located on Pleasant Street, on the east side of Max Read Field. Discharge is to the Seekonk River. Marked on City mapping as: "O.F. 018".
Maintenance Issues	Outlet of pipe is partly blocked with silt, probably the result of backflow from the river during high tide.
Picture	009



Outfall 007	
Latitude	41°51'55.7" N
Longitude	71°22'49.9" W
Time and Date Examined	9:45 AM July 27, 2007
Outfall description	Two, 24-inch RCP
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located on Pleasant Street, on the east side of Max Read Field. Discharge is to the Seekonk River. Marked on City mapping as "O.F. 17".
Maintenance Issues	Bank shows signs of severe erosion at the point where these pipes discharge. The bank is unstable and shows signs of continuing collapse. A strong smell of petroleum was present. A 24-inch thick band of a coal tar substance was observed on the eroded bank.
Picture	010

Outfall 008	
Latitude	41°52'21.4" N
Longitude	71°23'0.3" W
Time and Date Examined	9:30 am on July 27, 2007
Outfall description	36-inch concrete
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located near the east abutment of the Division Street Bridge, on the west side of the "Tire Pro" store parking lot. Marked on City mapping as "O.F. 15". Outfall can be submerged at high tide.
Maintenance Issues	None observed
Picture	011



Outfall 009	
Latitude	41° 52' 6.0" N
Longitude	71° 22' 50.76" W
Time and Date Examined	10:30 am on August 14, 2007
Outfall description	24-inch steel
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located on the river bank , east of Thornton Street at the steel tanks. This is likely the outfall marked as O.F.0017 on City mapping.
Maintenance Issues	This outfall is likely submerged at high tide.
Picture	2129

Outfall 010	
Latitude	41° 52' 16.7" N
Longitude	71° 22' 56.1" W
Time and Date Examined	August 14, 2007
Outfall description	24-inch CMP
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located on the west side of School Street at an abandoned parking lot. Discharge is to the Seekonk River.
Maintenance Issues	Outlet is blocked with debris, trash, construction material, and clothing. Location appears to be an encampment of homeless people.
Picture	013



Outfall 011	
Latitude	41°52'16.6" N
Longitude	71°22'55.5" W
Time and Date Examined	August 14, 2007
Outfall description	24 inch CMP
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located on the west side of School Street at an abandoned parking lot. Discharge is to the Seekonk River.
Maintenance Issues	Outlet is blocked with sand, debris, and discarded items. Location appears to be a encampment of homeless people.
Picture	014

Outfall 012	
Latitude	41°51'39.9" N
Longitude	71°22'34.4" W
Time and Date Examined	August 14, 2007
Outfall description	Two, 8-inch steel pipes
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located in the rear of an unnumbered industrial building on School Street, at Service Road. Pipes are down gradient of the retaining wall in the rear of the building. Discharge is to the Seekonk River. These are abandoned industrial pipes and are not a stormwater outfall.
Maintenance Issues	None observed
Picture	015



Outfall 013	
Latitude	41° 51' 42.47" N
Longitude	71° 22' 36.81" W
Time and Date Examined	9:30 am on August 17, 2007
Outfall description	24-inch CMP
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located at the rear of the baseball field on School Street, near Maryland Street. Discharge is to the Seekonk River. Location updated by GPS on 8/17/07
Maintenance Issues	None observed
Picture	016

Outfall 014	
Latitude	41° 52' 29.5" N
Longitude	71° 23' 1.5" W
Time and Date Examined	1:47 pm on July 26, 2007
Outfall description	24 inch RCP
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located at the rear of the Apex Mall Building. Discharge is to the Blackstone River. Outfall is on the retaining wall in back of the mall and is entirely inaccessible.
Maintenance Issues	None observed
Picture	020



Outfall 015	
Latitude	41°52'30.7" N
Longitude	71°23'3.2" W
Time and Date Examined	July 27, 2007
Outfall description	36 inch CMP
Flow?	Undetermined-outfall is inaccessible and partly submerged
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located on Taft Street, near Jenks Way. Discharge is to the Blackstone River. Outfall is inaccessible from the west bank, but it may be observed from the east bank at the Apex building.
Maintenance Issues	None observed
Picture	019

Outfall 016	
Latitude	41°52'21.8" N
Longitude	71°23'3.2" W
Time and Date Examined	9:15 am on July 27, 2007
Outfall description	Two, 24 inch RCP's
Flow?	Moderate flow from the south pipe.
Temperature, C°	19
pH	7.8
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	1330
Bacteria, MPL/100ml	150
Surfactants, MBAS, mg/L	0.07
Ammonia, mg/L	N.D.
Narrative	Outfall is located on Taft Street below the I-95 overpass, on the west bank of the river. Sample ID 07270700850-01.
Maintenance Issues	None observed
Pictures	023



Outfall 017	
Latitude	41°52'31.7" N
Longitude	71°23'3.0" W
Time and Date Examined	July 27, 2007
Outfall description	30 inch CMP
Flow?	Undetermined, but probably none. (Outfall observed from opposite bank)
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located at the parking lot of the hydroelectric plant on Taft Street. Marked: "O.F. 013" on City mapping. Outfall is on the river retaining wall and is inaccessible. Discharge is to the Blackstone River.
Maintenance Issues	None observed
Picture	018

Outfall 018	
Latitude	41°52'35.14" N
Longitude	71°23'0.74" W
Time and Date Examined	July 27, 2007
Outfall description	24 inch RCP
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Main Street bridge, west abutment. Outfall is inaccessible. Marked on City mapping as: "O.F.011". Marked NBC Outfall 210 and 211. Discharge is to the Blackstone River. Coordinates corrected by GPS on 7/27/07.
Maintenance Issues	None observed
Pictures	025



Outfall 019	
Latitude	41° 52' 34.52" N
Longitude	71° 23' 0" W
Time and Date Examined	July 27, 2007
Outfall description	24 inch RCP
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Main Street bridge, east abutment. Outfall is inaccessible. Marked on City mapping as: "O.F.012". Marked NBC Outfall 212. Discharge is to the Blackstone River. Geographic location updated by GPS 7/27/07.
Maintenance Issues	None observed
Picture	026

Outfall 020	
Latitude	41° 52' 42.7" N
Longitude	71° 22' 53.2" W
Time and Date Examined	11:00 am on August 17, 2007
Outfall description	24 inch RCP
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located at the end of Leather Avenue, at the rear of the Police Station. Discharge is to the Blackstone River.
Maintenance Issues	Tree trunk blocking discharge channel
Picture	820, 2164



Outfall 021	
Latitude	41°52'46.7" N
Longitude	71°22'52.4" W
Time and Date Examined	11:39 am on August 17, 2007
Outfall description	Two, 24-inch RCP
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Exchange Street bridge, east bank. Marked on City mapping as "O.F.009". Discharge is to the Blackstone River.
Maintenance Issues	None observed
Picture	028

Outfall 022	
Latitude	41°52'47.69" N
Longitude	71°22'54.41" W
Time and Date Examined	10:12 am on July 27, 2007
Outfall description	36 inch concrete
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Exchange Street bridge, west abutment at parking lot of 247 Roosevelt Ave. Marked on City mapping as: "O.F.008". Discharge is to the Blackstone River. Coordinates updated by GPS on 7/27/07.
Maintenance Issues	None observed
Picture	029



Outfall 023	
Latitude	41°52'54.7" N
Longitude	71°22'53.7" W
Time and Date Examined	11:00 am on June 27, 2007
Outfall description	24 inch RCP
Flow?	No (outlet partly submerged)
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located on the rear foundation wall of the Asian Catholic Church on Roosevelt Avenue. Discharge is to the Blackstone River. Marked "OF 006" on City mapping.
Maintenance Issues	None observed
Picture	030

Outfall 024	
Latitude	41°52'54.9" N
Longitude	71°22'50.1" W
Time and Date Examined	11:10 am on June 27, 2007
Outfall description	Three, 36- inch iron pipes.
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located on the west bank of the Blackstone River at the end of Blackstone Avenue. Marked "OF 007" on City mapping. Only one of these three pipes is likely a storm water outfall. The others may be abandoned municipal or industrial piping.
Maintenance Issues	None observed
Picture	031



Outfall 025	
Latitude	41°53'10.0" N
Longitude	71°22'49.6" W
Time and Date Examined	10:44 am on June 27, 2007
Outfall description	36 inch RCP
Flow?	Moderate
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located near the east abutment of the Cross Street Bridge, near the <i>Blackstone Landing</i> condominium buildings). Marked NBC outfall 205. Discharge is to Blackstone River.
Maintenance Issues	None observed
Picture	032

Outfall 026	
Latitude	41°53'9.6" N
Longitude	71°22'52.1" W
Time and Date Examined	10:50 am on June 27, 2007
Outfall description	36 inch RCP
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located under the Cross Street bridge, west abutment. Marked NBC Outfall 105. Discharge is to Blackstone River.
Maintenance Issues	None observed
Picture	033



Outfall 027	
Latitude	41°53'24.4" N
Longitude	71°22'57.4" W
Time and Date Examined	11:10 am on August 17, 2006
Outfall description	36 inch brick
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located at the west end of East Street. Discharge is to the Blackstone River.
Maintenance Issues	None observed
Picture	2165

Outfall 028	
Latitude	41°51'58.6" N
Longitude	71°20'29.2" W
Time and Date Examined	12:30 pm on July 26, 2007
Outfall description	36 inch RCP
Flow?	Moderate
Temperature, C°	21
pH	6.2
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	400
Bacteria, MPL/100ml	50
Surfactants, MBAS, mg/L	0.09
Ammonia, mg/L	N.D.
Narrative	Located on Rt. 1A at Slater Memorial Park, south-east corner under the bike path. Discharge is to the 10-Mile River. Sample ID: 07260700850-01
Maintenance Issues	None observed
Picture	036



Outfall 029	
Latitude	41°53'2.1" N
Longitude	71°22'50.0" W
Time and Date Examined	10:36 am on July 27, 2007.
Outfall description	24 inch RCP
Flow?	Moderate
Temperature, C°	18.4
pH	8.5
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	23
Bacteria, MPL/100ml	130
Surfactants, MBAS, mg/L	0.14
Ammonia, mg/L	N.D.
Narrative	Located on Front Street at Blake Avenue, in the rear of an abandoned and partly collapsed industrial building. Access to this outfall is difficult. Discharge is to the Blackstone River. Sample ID: 07270700850-02
Maintenance Issues	None observed
Picture	037

Outfall 030	
Latitude	41°52'45.2" N
Longitude	71°24'17.6" W
Time and Date Examined	12:24 am on August 14, 2007
Outfall description	12 inch RCP
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Moshassuck Industrial Highway, at the north end of the Galego Soccer Field. Discharge is to a wetland area on the east side of the street.
Maintenance Issues	None observed
Picture	038



Outfall 031	
Latitude	41° 52' 45.7" N
Longitude	71° 24' 22.3" W
Time and Date Examined	12:50 am on August 14, 2007
Outfall description	36 inch RCP
Flow?	Backflow into outlet from Moshassuck River.
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located at the railroad tracks on the west side of N.E. Tractor Trailer School on Moshassuck Industrial Highway.
Maintenance Issues	Area around outfall is heavily overgrown.
Picture	039

Outfall 032	
Latitude	41° 52' 39.4" N
Longitude	71° 24' 20.9" W
Time and Date Examined	1:00 pm on August 14, 2007
Outfall description	36- inch RCP
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located at the railroad tracks, west side of the Moshassuck Industrial Highway. Outlet is on the river; the nearby 16" blue plastic pipe is a culvert under the tracks.
Maintenance Issues	Area around outfall is heavily overgrown.
Picture	040



Outfall 033	
Latitude	41° 52' 30.6" N
Longitude	71° 24' 34.3" W
Time and Date Examined	10: 20 am on August 3, 2007
Outfall description	36-inch RCP
Flow?	Trickle
Temperature, C°	23
pH	6.5
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	610
Bacteria, MPL/100ml	270
Surfactants, MBAS, mg/L	0.10
Ammonia, mg/L	1.8
Narrative	Located in the woods off the east end of Morris Avenue. Access to this outfall is difficult and involves getting over or under a chain-link fence. Discharge is to the Moshassuck River. Sample ID: 08030700850-001
Maintenance Issues	Concrete headwall is damaged. Discharging water was observed to be orange in color.
Picture	3330, 041

Outfall 034	
Latitude	41° 52' 28.9" N
Longitude	71° 24' 33.6" W
Time and Date Examined	10:40 am August 3, 2007
Outfall description	12 inch RCP
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located in the rear of a factory building, likely the Providence Metallizing Company. Discharge is to the Moshassuck River.
Maintenance Issues	No vegetation grows in the vicinity of this outfall. This outfall is located directly below a marked hazardous waste storage area which contains drums and boxes.
Picture	3334



Outfall 035	
Latitude	41° 52' 29.3" N
Longitude	71° 24' 33.8" W
Time and Date Examined	10:42 am on August 3, 2007
Outfall description	One 12-inch RCP and one 6 inch PVC pipe.
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located in the rear of an industrial building, likely the Providence Metallizing Company.
Maintenance Issues	None observed
Picture	3335

Outfall 036	
Latitude	41° 52' 22.2" N
Longitude	71° 24' 30.6" W
Time and Date Examined	1:18 pm on August 14, 2007
Outfall description	12 inch RCP
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Outfall comes out of the foundation in the rear of an industrial building, 601 Mineral Spring Avenue. Discharge is to the Moshassuck River.
Maintenance Issues	None observed
Picture	044



Outfall 037	
Latitude	41° 52' 18.3" N
Longitude	71° 24' 25.3" W
Time and Date Examined	1:25 on August 14, 2007
Outfall description	Two, 6-inch PVC
Flow?	Trickle
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	This outfall was observed in the rear of a mill building at 560 Mineral Spring Avenue (rear) marked "Miko's Doggy-Style Designs". Discharge is to the Moshassuck River. These pipes connect to a sump pump and roof drain system. Discharge not sampled.
Maintenance Issues	None observed
Pictures	045, 046

Outfall 038	
Latitude	41° 51' 54.5" N
Longitude	71° 24' 18.7" W
Time and Date Examined	11:10 am on August 3, 2007
Outfall description	Concrete headwall visible; outlet is submerged
Flow?	Substantial
Temperature, C°	21
pH	7.7
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	430
Bacteria, MPL/100ml	110
Surfactants, MBAS, mg/L	0.07
Ammonia, mg/L	0.4
Narrative	Located in back of the St. Francis Cemetery on Smithfield Street. Sample ID 08030700850-002
Maintenance Issues	None observed
Picture	047



Outfall 039	
Latitude	41° 53' 13.7" N
Longitude	71° 20' 40.1" W
Time and Date Examined	10:30 am on August 7, 2007
Outfall description	One 36- inch RCP (left) and one 24-inch RCP (right)
Flow?	Trickle from both pipes
Temperature, C°	20 (left) 22 (right)
pH	5.9 (left) 6.2 (right)
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	157 (left) 3 (right)
Bacteria, MPL/100ml	20 (left) 11,800 (right)
Surfactants, MBAS, mg/L	0.05 (left) 0.09 (right)
Ammonia, mg/L	N.D. (both pipes)
Narrative	Dagget Avenue, at the sports field near Hanover Street. Discharge is to a stream that flows into the 10-Mile River. Sample ID's 08070700850-01 (left) & 08070700850-02 (right)
Maintenance Issues	None observed
Picture	048

Outfall 040	
Latitude	41° 53' 14.2" N
Longitude	71° 20' 46.3" W
Time and Date Examined	10:45 am on August 7, 2007
Outfall description	Two, 12-inch HDPE pipes.
Flow?	Substantial
Temperature, C°	16.7
pH	6.00
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	233
Bacteria, MPL/100ml	0
Surfactants, MBAS, mg/L	0.09
Ammonia, mg/L	N.D.
Narrative	Dagget Avenue, at the sports field near Hanover Street. These pipes are likely an under-field drain. Discharge is into a stream that flows into the 10-Mile River. Sample ID 08070700850-03
Maintenance Issues	None observed
Picture	049



Outfall 041	
Latitude	41° 53' 37.7" N
Longitude	71° 20' 27.1" W
Time and Date Examined	11:19 am on August 7, 2007
Outfall description	24-inch HDPE
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located in the rear of 95 Pinecrest Street. Owner: Mr. Larry Stavinsky, 726-5365. Discharge is to the 10-Mile River.
Maintenance Issues	Large tree has fallen on outfall.
Picture	050

Outfall 042	
Latitude	41° 52' 31.7" N
Longitude	71° 20' 31.2" W
Time and Date Examined	11:30 am on August 7, 2007
Outfall description	36 inch RCP
Flow?	Moderate
Temperature, C°	18
pH	6.7
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	332
Bacteria, MPL/100ml	340
Surfactants, MBAS, mg/L	0.04
Ammonia, mg/L	0.3
Narrative	Located on the 10 Mile River, off Parkside Avenue near the intersection of Armistice Boulevard. Discharge is to the 10 Mile River. Sample ID 08070700850-04
Maintenance Issues	None observed
Picture	052



Outfall 043	
Latitude	41° 52' 17.4" N
Longitude	71° 24' 24.4" W
Time and Date Examined	1:30 pm on August 14, 2007
Outfall description	6-inch PVC
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located at the rear building of a mill complex at 560 Mineral Spring Avenue. Building is marked "Miko's Doggy-Style Designs". Discharge is to the Moshassuck River. This pipe is the outlet of a roof drain at this building.
Maintenance Issues	None observed
Picture	053

Outfall 044	
Latitude	41° 51' 36.5" N
Longitude	71° 24' 71." W
Time and Date Examined	July 26, 2007
Outfall description	30-inch RCP, concrete headwall
Flow?	Partly submerged in standing water.
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located on Esten Street near the intersection of Moshassuck Street, at the parking lot of "Micro-Fibers". A sign on the fence nearby identifies this as NBC Outfall 219. Marked on City mapping as "O.F. 020". Discharge is to the Moshassuck River.
Maintenance Issues	None observed
Picture	055



Outfall 045	
Latitude	41°51'35.9" N
Longitude	71°24'7.9" W
Time and Date Examined	July 26, 2007
Outfall description	36- inch elliptical brick, stone headwall
Flow?	Partly submerged in standing water
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located behind a fenced-in area, Esten Street at the intersection of Moshassuck Street. A nearby sign identifies this as NBC Outfall 220. Marked on City mapping as "O.F. 021". Discharge is to the Moshassuck River.
Maintenance Issues	The bank at this outfall has partly collapsed, damaging the headwall and outlet.
Picture	054

Outfall 046	
Latitude	41°51'47.7" N
Longitude	71°24'13.3" W
Time and Date Examined	12:15 pm on August 17, 2007
Outfall description	18 inch RCP, concrete headwall.
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located on the west bank of the Moshassuck River, between I-95 and a piece of waste ground on the west side of Esten Street. The only physical access to this outfall is from I-95 or by wading across the Moshassuck River.
Maintenance Issues	None observed
Picture	056



Outfall 047	
Latitude	41° 51' 47.2" N
Longitude	71° 24' 12.4" W
Time and Date Examined	August 17, 2007
Outfall description	12" HDPE with F.E.S.
Flow?	trickle
Temperature, C°	25
pH	7.4
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	60
Bacteria, MPL/100ml	30
Surfactants, MBAS, mg/L	0.15
Ammonia, mg/L	N.D.
Narrative	Recently constructed storm water detention basin and outfall located on the east side of the parking lot of <i>Hope Artiste Village</i> on Esten Street. Discharge is to the Moshassuck River. Location of new outfall by GPS on 8/17/07. Sample ID 08170700850-01
Maintenance Issues	None observed
Picture	2167, 2168, 2170

Outfall 048	
Latitude	41° 51' 34.1" N
Longitude	71° 24' 11.7" W
Time and Date Examined	July 26, 2007
Outfall description	18 inch RCP with F.E.S.
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located approximately 30 feet from the west end of Moshassuck Street. Discharge is to a dry stream leading to the Moshassuck River. Marked on City mapping as "O.F.022".
Maintenance Issues	None observed
Picture	058



Outfall 049	
Latitude	41° 51' 28.8" N
Longitude	71° 24' 13.3" W
Time and Date Examined	June 26, 2007
Outfall description	Open drainage, bituminous
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located on the west end of Grenville Street, south of a ball field and near a scrap metal dealer. Discharge is to the Moshassuck River.
Maintenance Issues	None observed
Picture	059



**APPENDIX A**

**OUTFALL-BY-OUTFALL DESCRIPTION OF FINDINGS**



NOTES:

NBC=Narragansett Bay Commission

FES= Flared End Section

N.D.=Not Detected (i.e., below the limit of detection)

RCP=Reinforced Concrete Pipe

"Picture" refers to the last three digits of the photograph number on the included CD

Outfall 001	
Latitude	41°51'36.2" N
Longitude	71°22'22.8" W
Time and Date Examined	11:00 am on 3/6/07
Outfall description	24-inch RCP
Flow?	No
Temperature, C°	-1 (air)
pH	-
Conductivity, $\mu\text{S/cm/C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located in the rear of an unmarked and empty industrial building, Beverage Hill Road at School Street. Discharge is to a dry stream bed leading to the Seekonk River.
Maintenance Issues	None observed
Picture	792

Outfall 002	
Latitude	41°51'35.3" N
Longitude	71°22'20.5" W
Time and Date Examined	11:07 am on 3/6/07
Outfall description	24- inch RCP
Flow?	Frozen standing water
Temperature, C°	-1 (air)
pH	-
Conductivity, $\mu\text{S/cm/C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located in the rear of an unmarked and empty industrial building, Beverage Hill Road at School Street. Discharge is to NBC Outfall 218, discharging to the Seekonk River.
Maintenance Issues	None observed
Picture	794



Outfall 003	
Latitude	41°51'36.4" N
Longitude	71°22'21.2" W
Time and Date Examined	11:26 am on 3/6/07
Outfall description	Concrete structure
Flow?	Substantial
Temperature, C°	-1 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located near the intersection of School Street and Beverage Hill Road, near the PRM Concrete property. NBC Outfall 218.
Maintenance Issues	None observed
Picture	793, 796.

Outfall 004	
Latitude	41°51'32.4" N
Longitude	71°22'29.9" W
Time and Date Examined	11:52 am on 3/6/07
Outfall description	One 8-inch DWV pipe, and one 12-inch HDPE pipe.
Flow?	No
Temperature, C°	-1 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located in the rear of the parking lot of an unnumbered industrial building, located north of PRM Concrete on School Street. Discharge is to the Seekonk River.
Maintenance Issues	None observed
Picture	797



Outfall 005	
Latitude	41°51'32.3" N
Longitude	71°22'28.1" W
Time and Date Examined	11:57 am on 3/6/07
Outfall description	12 inch RCP with F.E.S.
Flow?	No
Temperature, C°	-1 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located on School Street, just across the street from the batching plant of PRM Concrete. Discharge is to the Seekonk River. Marked on City mapping as: "O.F. 019".
Maintenance Issues	None observed
Pictures	798, 799, 800. (Outfall is visible about 10 feet above the concrete channel).

Outfall 006	
Latitude	41°51'54.1" N
Longitude	71°22'47.5" W
Time and Date Examined	1:25 pm on 3/6/07
Outfall description	24 inch RCP
Flow?	No
Temperature, C°	-1 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located on Pleasant Street, on the east side of Max Read Field. Discharge is to the Seekonk River. Marked on City mapping as: "O.F. 018".
Maintenance Issues	Outlet of pipe is partly blocked with silt, probably the result of backflow from the river during high tide.
Picture	801



Outfall 007	
Latitude	41°51'55.7" N
Longitude	71°22'49.9" W
Time and Date Examined	1:30 pm on 3/6/07
Outfall description	Two, 24-inch RCP
Flow?	No
Temperature, C°	-1 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located on Pleasant Street, in the rear of the elementary school. Discharge is to the Seekonk River. Marked on City mapping as "O.F. 17".
Maintenance Issues	Bank shows signs of severe erosion at the point where these pipes discharge. The bank is unstable and shows signs of recent collapse.
Picture	802

Outfall 008	
Latitude	41°52'21.4" N
Longitude	71°23'0.3" W
Time and Date Examined	2:02 pm on 3/6/07
Outfall description	36-inch concrete
Flow?	No
Temperature, C°	-1 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located near the east abutment of the Division Street Bridge, on the west side of the "Tire Pro" store parking lot. Marked on City mapping as "O.F. 15".
Maintenance Issues	None observed
Picture	803



Outfall 009	
Latitude	41°52'9.57" N
Longitude	71°22'53.93" W
Time and Date Examined	2:24 pm on 3-6-07
Outfall description	Approximate 12-inch pipe
Flow?	Undetermined
Temperature, C°	-1 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located in the rear of two, blue steel petroleum tanks on Water Street. Pipe leads into the Seekonk River, and is visible from the State Dock on School Street. This pipe is on private property, and no determination was made as to discharge from this pipe.
Maintenance Issues	None observed
Picture	805

Outfall 010	
Latitude	41°52'16.7" N
Longitude	71°22'56.1" W
Time and Date Examined	2:45 pm on 3/6/07
Outfall description	24-inch CMP
Flow?	No
Temperature, C°	-1 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located on the west side of School Street near Woodland Street, at an abandoned parking lot. Discharge is to the Seekonk River.
Maintenance Issues	Outlet is partly blocked with debris, household trash, and boxes of discarded construction material.
Picture	806



Outfall 011	
Latitude	41°52'16.6" N
Longitude	71°22'55.5" W
Time and Date Examined	2:49 pm on 3/6/07
Outfall description	24 inch CMP
Flow?	No
Temperature, C°	-1 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located on the west side of School Street near Woodland Street, at an abandoned parking lot. Discharge is to the Seekonk River.
Maintenance Issues	Outlet is blocked with sand and debris. Use caution at this location: several discarded syringes were observed.
Picture	807

Outfall 012	
Latitude	41°51'39.9" N
Longitude	71°22'34.4" W
Time and Date Examined	3:25 on 3/6/07
Outfall description	Two, 8-inch steel pipes
Flow?	No
Temperature, C°	-1 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located in the rear of an unnumbered industrial building on School Street, at Service Road. Pipes are down gradient of the retaining wall in the rear of the building. Discharge is to the Seekonk River.
Maintenance Issues	None observed
Picture	808



Outfall 013	
Latitude	41°51'42.6" N
Longitude	71°22'36.4" W
Time and Date Examined	10:35 am on 3/7/07
Outfall description	24-inch CMP
Flow?	Frozen standing water
Temperature, C°	5 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located at the rear of the baseball field on School Street, near Maryland Street. Discharge is to the Seekonk River.
Maintenance Issues	None observed
Picture	809

Outfall 014	
Latitude	41°52'29.5" N
Longitude	71°23'1.5" W
Time and Date Examined	11:25 am on 3/7/07
Outfall description	24 inch RCP
Flow?	Frozen standing water
Temperature, C°	5 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located at the rear of the Apex Mall Building. Discharge is to the Blackstone River.
Maintenance Issues	None observed
Picture	813



Outfall 015	
Latitude	41°52'30.7" N
Longitude	71°23'3.2" W
Time and Date Examined	1:55 am 3/7/07
Outfall description	36 inch CMP
Flow?	No
Temperature, C°	5 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located on Taft Street, at Jenks Street. Discharge is to the Blackstone River. Outfall is inaccessible from the west bank, but it may be observed from the east bank at the Apex building.
Maintenance Issues	None observed
Picture	810

Outfall 016	
Latitude	41°52'21.8" N
Longitude	71°23'3.2" W
Time and Date Examined	11:39 am on 3/7/07
Outfall description	24 inch RCP
Flow?	Frozen standing water
Temperature, C°	5 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Outfall is located on Taft Street below the I-95 overpass on the west bank. Outfall is inaccessible except by boat. Discharge is to the Blackstone River.
Maintenance Issues	None observed
Pictures	814, 815, 816



Outfall 017	
Latitude	41°52'31.7" N
Longitude	71°23'3.0" W
Time and Date Examined	11:59 on 3/7/07
Outfall description	30 inch CMP
Flow?	No
Temperature, C°	5 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located at the outlet of the hydroelectric plant on Roosevelt Avenue Extension (may also be called Taft Street). Marked: "O.F.013" on City mapping. Outfall is inaccessible. Discharge is to the Blackstone River.
Maintenance Issues	None observed
Picture	812

Outfall 018	
Latitude	41°52'36.9" N
Longitude	71°23'1.8" W
Time and Date Examined	12:17 am on 3/7/07
Outfall description	24 inch RCP
Flow?	Frozen standing water
Temperature, C°	5 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Main Street bridge, abutment. Outfall is inaccessible. Marked on City mapping as: "O.F.011". Marked NBC Outfall 210 and 211. Discharge is to the Blackstone River.
Maintenance Issues	None observed
Pictures	817, 818



Outfall 019	
Latitude	41°52'34.8" N
Longitude	71°23'0.6" W
Time and Date Examined	12:29 on 3/7/07
Outfall description	24 inch RCP
Flow?	Frozen standing water
Temperature, C°	5 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Main Street bridge, east abutment. Outfall is inaccessible. Marked on City mapping as: "O.F.012". Marked NBC Outfall 212. Discharge is to the Blackstone River.
Maintenance Issues	None observed
Picture	819

Outfall 020	
Latitude	41°52'42.7" N
Longitude	71°22'53.2" W
Time and Date Examined	1:10 pm on 3/7/07
Outfall description	24 inch RCP
Flow?	No
Temperature, C°	5 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located at the end of Leather Avenue, at the rear of the Police Station. Discharge is to the Blackstone River.
Maintenance Issues	None observed
Picture	820



Outfall 021	
Latitude	41°52'46.7" N
Longitude	71°22'52.4" W
Time and Date Examined	1:16 pm on 3/7/07
Outfall description	Two, 24-inch RCP
Flow?	No
Temperature, C°	5 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Exchange Street bridge, east bank. Marked on City mapping as "O.F.009". Discharge is to the Blackstone River.
Maintenance Issues	None observed
Picture	821

Outfall 022	
Latitude	41°52'52.6" N
Longitude	71°22'54.7" W
Time and Date Examined	1:31 pm on 3/7/07
Outfall description	36 inch concrete
Flow?	No
Temperature, C°	5 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Exchange Street bridge, west abutment. Marked on City mapping as: "O.F.008". Discharge is to the Blackstone River.
Maintenance Issues	None observed
Picture	822



Outfall 023	
Latitude	41°52'54.7" N
Longitude	71°22'53.7" W
Time and Date Examined	1:41 pm on 3/7/07
Outfall description	24 inch RCP
Flow?	Frozen standing water
Temperature, C°	5 (air)
pH	-
Conductivity, $\mu\text{S/cm/C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located on the rear of the Asian Catholic Church on Roosevelt Avenue. Discharge is to the Blackstone River.
Maintenance Issues	None observed
Picture	823

Outfall 024	
Latitude	41°52'54.9" N
Longitude	71°22'50.1" W
Time and Date Examined	1:46 pm on 3/7/07
Outfall description	Three, 36- inch iron pipes.
Flow?	No
Temperature, C°	5 (air)
pH	-
Conductivity, $\mu\text{S/cm/C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located at the end of Blackstone Avenue, on the west bank. Discharge is to the Blackstone River.
Maintenance Issues	None observed
Picture	824



Outfall 025	
Latitude	41°53'10.0" N
Longitude	71°22'49.6" W
Time and Date Examined	2:11 pm on 3/7/07
Outfall description	36 inch RCP
Flow?	Frozen standing water.
Temperature, C°	5 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Cross Street Bridge, east bank (near condominium buildings). Marked NBC outfall 204. Discharge is to Blackstone River.
Maintenance Issues	None observed
Picture	825

Outfall 026	
Latitude	41°53'9.6" N
Longitude	71°22'52.1" W
Time and Date Examined	2:14 pm on 3/7/07
Outfall description	36 inch RCP
Flow?	No
Temperature, C°	5 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Cross Street bridge, west abutment. Marked NBC Outfall 015. Discharge is to Blackstone River.
Maintenance Issues	None observed
Picture	826



Outfall 027	
Latitude	41°53'24.4" N
Longitude	71°22'57.4" W
Time and Date Examined	3:11 pm on 3/7/07
Outfall description	36 inch brick
Flow?	Frozen standing water
Temperature, C°	5 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located at the west end of East Street. Discharge is to the Blackstone River.
Maintenance Issues	None observed
Picture	828

Outfall 028	
Latitude	41°51'58.6" N
Longitude	71°20'29.2" W
Time and Date Examined	5:45 pm on 3/7/07
Outfall description	36 inch RCP
Flow?	Moderate
Temperature, C°	1 (water)
pH	7.7
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	222
Bacteria, MPL/100ml	N.D.
Surfactants, MBAS, mg/L	0.07
Ammonia, mg/L	N.D.
Narrative	Located on Rt. 1A at Slater Memorial Park, south-east corner. Discharge is to the 10-Mile River. Sampling was retrieved at 3:20 pm on 3/8/2007 and is marked "Sample 3".
Maintenance Issues	None observed
Picture	834



Outfall 029	
Latitude	41°53'2.1" N
Longitude	71°22'50.0" W
Time and Date Examined	9:38 am on 3/8/07
Outfall description	24 inch RCP
Flow?	Trickle
Temperature, C°	4
pH	6.2
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	403
Bacteria, MPL/100ml	N.D.
Surfactants, MBAS, mg/L	0.12
Ammonia, mg/L	0.2
Narrative	Located on Front Street at Blake Avenue, in the rear of an abandoned and partly collapsed industrial building. Access to this outfall is difficult. Discharge is to the Blackstone River. Sample was retrieved at 2:30 pm and is marked "Sample 2".
Maintenance Issues	None observed
Picture	836

Outfall 030	
Latitude	41°52'45.2" N
Longitude	71°24'17.6" W
Time and Date Examined	10:42 am on 3/8/07
Outfall description	12 inch RCP
Flow?	Frozen standing water
Temperature, C°	4 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Moshassuck Industrial Highway, at the north end of the Galego Soccer Field. Discharge is to a wetland area on the east side of the street.
Maintenance Issues	None observed
Picture	837



Outfall 031	
Latitude	41°52'45.7" N
Longitude	71°24'22.3" W
Time and Date Examined	10:54 am on 3/8/07
Outfall description	36 inch RCP
Flow?	Backflow into outlet from Moshassuck River.
Temperature, C°	4 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located at the railroad tracks on the west side of N.E. Tractor Trailer School on Moshassuck Industrial Highway.
Maintenance Issues	A sheen of oil was observed on the river at this location.
Picture	838

Outfall 032	
Latitude	41°52'39.4" N
Longitude	71°24'20.9" W
Time and Date Examined	11:01 am on 3/8/07
Outfall description	36- inch RCP
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located at the railroad tracks, west side of the Moshassuck Industrial Highway.
Maintenance Issues	None observed
Picture	839



Outfall 033	
Latitude	41°52'30.6" N
Longitude	71°24'34.3" W
Time and Date Examined	11:46 am on 3/8/07
Outfall description	36-inch RCP
Flow?	Trickle
Temperature, C°	6
pH	5.6
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	Out-of-range of the test instrument
Bacteria, MPL/100ml	1,900
Surfactants, MBAS, mg/L	0.15
Ammonia, mg/L	2.3
Narrative	Located in the woods off the east end of Morris Avenue. Access to this outfall is difficult and involves getting over or under a chain-link fence. Discharge is to the Moshassuck River. Sample was retrieved at 12:50 pm and is marked "Sample 1".
Maintenance Issues	Concrete headwall is damaged. Discharging water was observed to be orange in color.
Picture	840

Outfall 034	
Latitude	41°52'28.9" N
Longitude	71°24'33.6" W
Time and Date Examined	12:00 am on 3/8/07
Outfall description	12 inch RCP
Flow?	Trickle
Temperature, C°	5
pH	6.1
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	422
Bacteria, MPL/100ml	N.D.
Surfactants, MBAS, mg/L	0.09
Ammonia, mg/L	0.6
Narrative	Located in the rear of a factory building, likely the Providence Metallizing Company. Discharge was observed to be orange colored.. Discharge is to the Moshassuck River. Sample was retrieved at 2:45 pm on 3/9/07 and is labeled "sample 4".
Maintenance Issues	No vegetation appears to be growing in the vicinity of this outfall. This outfall is located directly below a marked hazardous waste storage area which contains many drums and boxes.
Picture	841



Outfall 035	
Latitude	41°52'29.3" N
Longitude	71°24'33.8" W
Time and Date Examined	12:03 am on 3/8/07
Outfall description	One 12-inch RCP and one 6 inch PVC pipe.
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located in the rear of an industrial building, likely the Providence Metallizing Company.
Maintenance Issues	None observed
Picture	842

Outfall 036	
Latitude	41°52'22.2" N
Longitude	71°24'30.6" W
Time and Date Examined	1:09 pm on 3/8/07
Outfall description	12 inch RCP
Flow?	No
Temperature, C°	6 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Outfall comes out of the foundation of an industrial building on Mineral Spring Avenue at Fairlawn Avenue. Discharge is to the Moshassuck River.
Maintenance Issues	None observed
Picture	843



Outfall 037	
Latitude	41°52'18.3" N
Longitude	71°24'25.3" W
Time and Date Examined	1:17 on 3/8/07
Outfall description	Two, 6-inch PVC
Flow?	Substantial (intermittent)
Temperature, C°	5 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	This outfall was observed in the rear of a mill building on Mineral Spring Avenue, possibly the Providence Metallizing Company. It is visible from across the river on Canal Street (San Antonio Highway), and it discharges to the Moshassuck River. It is located on posted private property. It was not possible to recover a sample.
Maintenance Issues	The interior of the discharging pipe is orange-colored.
Pictures	844, 845

Outfall 038	
Latitude	41°51'54.5" N
Longitude	71°24'18.7" W
Time and Date Examined	1:41 pm on 3/8/07
Outfall description	Concrete headwall visible; outlet is submerged
Flow?	Backflow into pipe from the Moshassuck river
Temperature, C°	5 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located in back of the St. Francis Cemetery on Smithfield Street.
Maintenance Issues	None observed
Picture	846



Outfall 039	
Latitude	41°53'13.7" N
Longitude	71°20'40.1" W
Time and Date Examined	11:20 am on 3/9/07
Outfall description	One 36- inch RCP and one 24-inch RCP.
Flow?	Trickle from the 36-inch pipe
Temperature, C°	9
pH	6.95
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	1
Bacteria, MPL/100ml	N.D.
Surfactants, MBAS, mg/L	0.12
Ammonia, mg/L	N.D.
Narrative	Dagget Avenue, at the sports field near Hanover Street. Discharge is to a stream that flows into the 10-Mile River. A sample was recovered at 11:20 am and is labeled Sample 1.
Maintenance Issues	None observed
Picture	847

Outfall 040	
Latitude	41°53'14.2" N
Longitude	71°20'46.3" W
Time and Date Examined	11:34 on 3/9/07
Outfall description	Two, 12-inch HDPE pipes.
Flow?	Substantial
Temperature, C°	10.8
pH	7.45
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	58
Bacteria, MPL/100ml	N.D.
Surfactants, MBAS, mg/L	0.07
Ammonia, mg/L	0.1
Narrative	Dagget Avenue, at the sports field near Hanover Street. These pipes are likely an under-field drain. Discharge is into a stream that flows into the 10-Mile River. A sample was recovered at 11:34 am and is labeled Sample 2.
Maintenance Issues	None observed
Picture	848



Outfall 041	
Latitude	41°53'37.7" N
Longitude	71°20'27.1" W
Time and Date Examined	12:21 on 3/9/07
Outfall description	24-inch HDPE
Flow?	No
Temperature, C°	6 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located in the rear of 95 Pinecrest Street. The only access to this outfall is to ask the property owner at this address to let you into his back yard. Discharge is to the 10-Mile River.
Maintenance Issues	None observed
Picture	849

Outfall 042	
Latitude	41°52'31.7" N
Longitude	71°20'31.2" W
Time and Date Examined	12:39 on 3/9/07
Outfall description	36 inch RCP
Flow?	Moderate
Temperature, C°	9
pH	7.47
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	128.5
Bacteria, MPL/100ml	40
Surfactants, MBAS, mg/L	0.34
Ammonia, mg/L	N.D.
Narrative	Located on the 10 Mile River, off Parkside Avenue near the intersection of Armistice Boulevard. Discharge is to the 10 Mile River. Sample was recovered at 12:39 and is marked "sample 3".
Maintenance Issues	None observed
Picture	850



Outfall 043	
Latitude	41°52'17.4" N
Longitude	71°24'24.4" W
Time and Date Examined	2:28 pm on 3/9/07
Outfall description	6-inch PVC
Flow?	No
Temperature, C°	-
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located in the rear of a mill complex on Mineral Spring Avenue. This outfall is visible from Canal Street (San Antonio Highway). This outfall is located on posted private property. Discharge is to the Moshassuck River.
Maintenance Issues	None observed
Picture	852

Outfall 044	
Latitude	41°51'36.5" N
Longitude	71°24'71." W
Time and Date Examined	9:19 am on 3/14/07
Outfall description	30-inch RCP, concrete headwall
Flow?	Trickle
Temperature, C°	55 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located in a fenced-in area, Esten Street near Moshassuck Street. A sign on the fence nearby identifies this as NBC Outfall 219. Marked on City mapping as "O.F. 020". Discharge is to the Moshassuck River.
Maintenance Issues	None observed
Picture	854



Outfall 045	
Latitude	41°51'35.9" N
Longitude	71°24'7.9" W
Time and Date Examined	9:16 am on 3/14/07
Outfall description	36- inch elliptical brick, stone headwall
Flow?	Trickle
Temperature, C°	55 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located behind a fenced-in area, Esten Street at the intersection of Moshassuck Street. A nearby sign identifies this as NBC Outfall 220. Marked on City mapping as "O.F. 021". Discharge is to the Moshassuck River.
Maintenance Issues	The bank at this outfall has partly collapsed, damaging the headwall and outlet.
Picture	853

Outfall 046	
Latitude	41°51'47.7" N
Longitude	71°24'13.3" W
Time and Date Examined	9:38 am on 3/14/07
Outfall description	18 inch RCP, concrete headwall.
Flow?	Backflow from the Moshassuck River.
Temperature, C°	55 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located on the west bank of the Moshassuck River, between I-95 and a piece of waste ground on the west side of Esten Street. The only physical access to this outfall is from I-95 or by wading across the Moshassuck River.
Maintenance Issues	None observed
Picture	855



Outfall 047	
Latitude	41°51'48.2" N
Longitude	71°24'10.7" W
Time and Date Examined	9:48 am on 3/14/07
Outfall description	12-inch PVC sanitary pipe
Flow?	No
Temperature, C°	55 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located on a piece of waste property on the west side of Esten street, near Warren Avenue. Outfall is behind the remains of a brick and concrete foundation
Maintenance Issues	None observed
Picture	856

Outfall 048	
Latitude	41°51'34.1" N
Longitude	71°24'11.7" W
Time and Date Examined	10:21 am on 3/17/07
Outfall description	18 inch RCP with F.E.S.
Flow?	No
Temperature, C°	55 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located approximately 30 feet from the west end of Moshassuck Street. Discharge is to the Moshassuck River. Marked on City mapping as "O.F.022".
Maintenance Issues	None observed
Picture	858



Outfall 049	
Latitude	41°51'28.8" N
Longitude	71°24'13.3" W
Time and Date Examined	10:32 am on 3/14/07
Outfall description	Open drainage, bituminous
Flow?	No
Temperature, C°	60 (air)
pH	-
Conductivity, $\mu\text{S}/\text{cm}/\text{C}^\circ$	-
Bacteria, MPL/100ml	-
Surfactants, MBAS, mg/L	-
Ammonia, mg/L	-
Narrative	Located on the west end of Grenville Street, south of a ball field and near a scrap metal dealer. Discharge is to the Moshassuck River.
Maintenance Issues	None observed
Picture	859

**OIL-WATER SEPARATOR LOGBOOK**

FACILITY NAME: CITY OF PAWTUCKET  
 RI FACILITY ID NO: RID981891898  
 ADDRESS: 250 ARMISTICE BLVD.

DATE	SAMPLED	INSPECTED	BY WHOM	CLEAN-REMOVAL	BY WHOM
4/1/2003	X	X	M.WILDENHAIN		
7/2/2003	X	X	M.WILDENHAIN		
7/2/2003		OIL PARAMETERS TOO HIGH			
8/21/2003				X	WESTERN OIL
9/4/2003	X	X	M.WILDENHAIN	PADS CHANGED	M.WILDENHAIN
9/11/2003	X	X	M.WILDENHAIN		
9/17/2003	X	X	M.WILDENHAIN		
9/18/2003	X	X	M.WILDENHAIN		
10/2/2003	X	X	M.WILDENHAIN	PADS CHANGED	M.WILDENHAIN
1/2/2004	X	X	M.WILDENHAIN	PADS CHANGED	M.WILDENHAIN
4/2/2004	X	X	M.WILDENHAIN	PADS CHANGED	M.WILDENHAIN
7/1/2004	X	X	M.WILDENHAIN	PADS CHANGED	M.WILDENHAIN
10/5/2004	X	X	M.WILDENHAIN	PADS CHANGED	M.WILDENHAIN
1/4/2005	X	X	M.WILDENHAIN	PADS CHANGED	M.WILDENHAIN
4/6/2005	X	X	M.WILDENHAIN	PADS CHANGED	M.WILDENHAIN
7/8/2005	X	X	M.WILDENHAIN	PADS CHANGED	M.WILDENHAIN
7/13/2005				X	UNITED INDUST.
10/5/2005	X	X	M.WILDENHAIN	PADS CHANGED	M.WILDENHAIN
1/4/2006	X	X	M.WILDENHAIN	PADS CHANGED	M.WILDENHAIN
4/7/2006	X	X	M.WILDENHAIN	PADS CHANGED	M.WILDENHAIN
6/27/2006		X	M.WILDENHAIN	PADS CHANGED	M.WILDENHAIN
7/8/2006	X	X	M.WILDENHAIN	PADS CHANGED	M.WILDENHAIN
10/2/2006	X	X	M.WILDENHAIN	PADS CHANGED	M.WILDENHAIN
10/19/2006		X	M.WILDENHAIN	X	UNITED INDUST.
1/2/2007	X	X	M.WILDENHAIN	PADS CHANGED	M.WILDENHAIN
4/3/2007	X	X	M.WILDENHAIN	PADS CHANGED	M.WILDENHAIN
10/2/2007	X	X	M.WILDENHAIN	PADS CHANGED	M.WILDENHAIN
1/7/2008	X	X	M.WILDENHAIN	PADS CHANGED	M.WILDENHAIN