



RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
235 Promenade Street, Providence, Rhode Island 02908

July 10, 2019

CERTIFIED MAIL

Mr. Nicholas Jaggi, Facility Director
Warwick Mall
400 Bald Hill Road, Suite 100
Warwick, RI 02886

RE: Final Permit for Warwick Mall
RIPDES Permit No. RI0023175

Dear Mr. Jaggi:

Enclosed is your final Rhode Island Pollutant Discharge Elimination System (RIPDES) Permit issued pursuant to the referenced application. State regulations, promulgated under Chapter 46-12 of the Rhode Island General Laws of 1956, as amended, require this permit to become effective on the date specified in the attached permit.

Also enclosed is information relative to hearing requests and stays of RIPDES Permits.

We appreciate your cooperation throughout the development of this permit. Should you have any questions concerning this permit, feel free to contact Samuel Kaplan of the State Permits Staff at (401) 222-4700, extension 7046.

Sincerely,

Joseph B. Haberek, PE
Supervising Sanitary Engineer

JBH:sk

Enclosures

Ecc: Traci Pena, RIDEM-OWR
Crystal Charbonneau, RIDEM-OWR

RESPONSE TO COMMENTS

NO SIGNIFICANT COMMENTS WERE RECEIVED ON THE DRAFT PERMIT FOR THIS FACILITY; THEREFORE, NO RESPONSE WAS PREPARED.

HEARING REQUESTS

If you wish to contest any of the provisions of this permit, you may request a formal hearing within thirty (30) days of receipt of this letter. The request should be submitted to the Administrative Adjudication Division at the following address:

Michelle Janvrin, Clerk
Department of Environmental Management
Office of Administrative Adjudication
235 Promenade Street
3rd Floor, Rm 350
Providence, RI 02908

Any request for a formal hearing must conform to the requirements of Rule 49 of the State Regulations.

STAYS OF RIPDES PERMITS

Should the Department receive and grant a request for a formal hearing, the contested conditions of the permit will not automatically be stayed. However, the permittee, in accordance with Rule 50, may request a temporary stay for the duration of adjudicatory hearing proceedings. Requests for stays of permit conditions should be submitted to the Office of Water Resources at the following address:

Angelo S. Liberti, P.E.
Chief of Surface Water Protection
Office of Water Resources
235 Promenade Street
Providence, Rhode Island 02908

All uncontested conditions of the permit will be effective and enforceable in accordance with the provisions of Rule 49.

AUTHORIZATION TO DISCHARGE UNDER THE
RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of Chapter 46-12 of the Rhode Island General Laws, as amended,

Warwick Mall
400 Bald Hill Road, Suite 100
Warwick, RI 02886

is authorized to discharge from a facility located at the

Warwick Mall
100 West Natick Road
Warwick, Rhode Island 02886

to receiving waters named

Pawtuxet River

in accordance with effluent limitations, monitoring requirements and other conditions set forth herein.

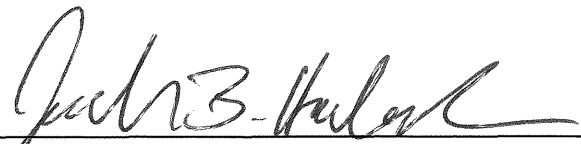
This permit shall become effective on October 1, 2019.

This permit and the authorization to discharge expire at midnight, five (5) years from the effective date.

This permit supersedes the permit issued on August 24, 2012.

This permit consists of 15 pages in Part I including effluent limitations, monitoring requirements, etc. and ten (10) pages in Part II including General Conditions.

Signed this 10TH day of July 2019.



for Angelo S. Liberty, P.E., Administrator of Surface Water Protection
Office of Water Resources
Rhode Island Department of Environmental Management
Providence, Rhode Island

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date and lasting through permit expiration, the permittee is authorized to discharge from outfall serial numbers 001A, 001B, 001C, 002A, 003A, and 003B. The permittee shall monitor the discharges from outfalls 001B, 001C, 002A, 003A, and 003B.

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u>		<u>Concentration - specify units</u>			<u>Monitoring Requirement</u>	
	Quantity - lbs./day						
	<u>Average Monthly</u>	<u>Maximum Daily</u>	<u>Average Monthly (Minimum)*</u>	<u>Average Weekly</u>	<u>Maximum Daily (Maximum)*</u>	<u>Measurement Frequency</u>	<u>Sample Type</u>
Flow		--- MGD				1/Quarter	Calculated ¹
TSS					--- mg/l	1/Quarter	Grab ²
Enterococci					--- cfu 100 ml	1/Quarter	Grab ²
pH			(--- SU)		(--- SU)	1/Quarter	Grab ²
Oil and Grease					--- mg/l	1/Quarter	Grab ²
Phosphorus, Total					--- mg/l	1/Quarter	Grab ²
Lead, Total					--- mg/l	1/Quarter	Grab ²
Zinc, Total					--- mg/l	1/Quarter	Grab ²

--- Signifies a parameter which must be monitored and data must be reported; no limit has been established at this time.

¹Flow shall be calculated using the drainage area, runoff coefficient, and the amount of rainfall.

²The Grab or "First Flush" value shall be obtained using a grab sample, consisting of an individual sample of at least 100 mL, collected during the first thirty (30) minutes of a discharge. A grab sample can be taken during the first hour of discharge, and the discharger shall submit a description of why a sample during the first thirty (30) minutes was impracticable.

*Values in parentheses () are to be reported as Minimum/Maximum for the reporting period rather than Average Monthly/Maximum Daily.

Samples must be obtained from a discharge which is the result of a representative storm event that occurs at least seventy-two (72) hours after the previously measurable (greater than 0.1 inches in magnitude) storm event. A representative storm event should be within 50% of the average Rhode Island storm event (0.7 inches in depth and 12 hours in duration) for both depth and duration, but in no case less than 0.1 inches per twenty-four (24) hours.

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following locations: 001B (42" reinforced concrete pipe that collects storm water runoff from the outfall 001 drainage area), 001C (24" reinforced concrete pipe that collects storm water runoff from the northern portion of the outfall 001 drainage area), 002A (36" reinforced concrete pipe that collects storm water runoff from the outfall 002 drainage area), 003A (24" reinforced concrete pipe that collects storm water runoff from the southern portion of the outfall 003 drainage area), and 003B (36" reinforced concrete pipe that collects storm water runoff from the northern portion of the outfall 003 drainage area).

2. The discharge shall not cause visible discoloration of the receiving waters.
3. The effluent shall contain neither a visible oil sheen, foam, nor floating solids at any time.
4. All existing manufacturing, commercial, mining, and silvicultural dischargers must notify the Director as soon as they know or have reason to believe:
 - a. That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - (1) One hundred micrograms per liter (100 ug/l);
 - (2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitro-phenol; and one milligram per liter (1 mg/l) for antimony;
 - (3) Five (5) times the maximum concentration reported for that pollutant in the permit application in accordance with 40CFR122.21(g)(7); or
 - (4) Any other notification level established by the Director in accordance with 40CFR122.44(f) and Rhode Island Code of Regulations.
 - b. That any activity has occurred or will occur which would result in the discharge, on a non-routine or infrequent basis, of any toxic pollutant not limited in the permit, if that discharge will exceed the highest of the following "notification levels":
 - (1) Five hundred micrograms per liter (500 ug/l);
 - (2) One milligram per liter (1 mg/l) for antimony;
 - (3) Ten (10) times the maximum concentration reported for that pollutant in the permit application in accordance with 40CFR122.21(g)(7); or
 - (4) Any other notification level established by the Director in accordance with 40CFR122.44(f) and Rhode Island Code of Regulations.
 - c. That they have begun or expect to begin to use or manufacture as an intermediate or final product or by-product any toxic pollutant, which was not reported in the permit application.
5. This permit authorizes the discharge of storm water runoff and the following allowable non-storm water discharges: discharges from fire fighting activities; fire hydrant flushings; external building washdowns that do not use detergents; lawn watering; uncontaminated ground water; air conditioning condensate; potable waterline flushings; irrigation drainage; and foundation or footing drains where flows are not contaminated with process materials, such as solvents, or contaminated by contact with soils, where spills or leaks of toxic or hazardous materials has occurred. If any of these discharges may reasonably be expected to be present, they must be specifically identified and addressed in the facility's Storm Water Pollution Prevention Plan (SWPPP) required under Part I.B.
6. This permit serves as the State's Water Quality Certificate for the discharges described herein.

B. STORM WATER POLLUTION PREVENTION PLAN REQUIREMENTS

1. A Storm Water Pollution Prevention Plan (SWPPP) shall be maintained by the permittee. The SWPPP shall be prepared in accordance with good engineering practices and identify potential sources of pollutants, which may reasonably be expected to affect the quality of storm water discharges from the site. In addition, the SWPPP shall describe and ensure the implementation of Best Management Practices (BMPs) that are to be used to reduce or eliminate the amount of pollutants in storm water discharges and to assure compliance with the terms and conditions of this permit. Some of the specific BMPs that must be evaluated in the SWPPP are the reduction of peak runoff flows and volumes, reduction of impervious surfaces, restoration of natural buffers and drainage systems (e.g., overland flow and grassy swales), infiltration of rooftop runoff, vacuum-assisted sweeping, and the use of permeable parking surfaces.
2. The SWPPP shall be signed by the permittee in accordance with the RIPDES Regulations (RI Code of Regulations: 250-RICR-150-10-1.12) and retained on-site. Upon request, the SWPPP shall also be made available to the Department of Environmental Management at any time.
3. If the SWPPP is reviewed by the Department of Environmental Management, the permittee may be notified at any time that it does not meet one or more of the minimum requirements of this part. After such notification, the permittee shall make changes to the SWPPP and shall submit a written certification that the requested changes have been made. Unless otherwise provided by the Department of Environmental Management, the permittee shall have thirty (30) days after such notification to make the necessary changes.
4. The permittee shall immediately amend the SWPPP whenever there is a change in design, construction, operation, or maintenance, which has a significant effect on the potential for the discharge of pollutants to the waters of the State; a release of reportable quantities of hazardous substances and oil; or if the SWPPP proves to be ineffective in achieving the general objectives of controlling pollutants in storm water discharges. Changes must be noted and then submitted to the Department of Environmental Management. Amendments to the Plan may be reviewed in the same manner as Part I.B.3 of this permit.
5. The SWPPP shall include, at a minimum, the following items:
 - a. Description of Potential Pollutant Sources. The SWPPP must provide a description of potential sources which may be reasonably expected to add significant amounts of pollutants to storm water discharges or which may result in the discharge of pollutants during dry weather from separate storm sewers draining the facility. It must identify all activities and significant materials, which may potentially be significant pollutant sources. The SWPPP shall include:
 - (1) A site map indicating: a delineation of the drainage area of each storm water outfall, each existing structural control measure to reduce pollutants in storm water runoff, locations where significant materials are exposed to storm water, locations where significant leaks or spills have occurred, a delineation of all impervious surfaces, all surface water bodies, all separate storm sewers, and the locations of the following activities where such areas are exposed to storm water: fueling stations, vehicle and equipment maintenance and/or cleaning areas, material handling areas, material storage areas, process areas, and waste disposal areas;

- (2) A topographic map extending one-quarter of a mile beyond the property boundaries of the facility;
- (3) An estimate of the overall runoff coefficient for the site, determined by an acceptable method, such as, but not limited to, area weighting;
- (4) A narrative description of significant materials that have been treated, stored, or disposed of in a manner to allow exposure to storm water in the past three (3) years; method of on-site storage or disposal; materials management practices employed to minimize contact of these materials with storm water runoff in the past three (3) years; materials loading and access areas; the location and description of existing structural and non-structural control measures to reduce pollutants in storm water runoff; and description of any treatment the storm water receives;
- (5) A list of significant spills and significant leaks of toxic or hazardous pollutants that occurred at the facility in the past three (3) years;
- (6) A list of any pollutants limited in effluent guidelines to which a facility is subject under 40 CFR Subchapter N, any pollutants listed on a RIPDES permit to discharge process water, and any information required under the RIPDES Regulations (RI Code of Regulations: 250-RICR-150-10-1.11.D).
- (7) For each area of the facility that generates storm water discharges with a reasonable potential for containing significant amounts of pollutants, a prediction of the direction of flow and an estimate of the types of pollutants, which are likely to be present in storm water;
- (8) A summary of existing sampling data describing pollutants in storm water discharges from the facility;

b. Storm Water Management Controls. The permittee must develop a description of storm water management controls appropriate for the facility and implement such controls. The appropriateness for implementing controls listed in the SWPPP must reflect identified potential sources of pollutants at the facility. The description of storm water management controls must address the following minimum components, including a schedule for implementing such controls:

- (1) *Pollution Prevention Team.* The SWPPP must identify a specific individual(s) within the facility organization as members of a team that are responsible for developing the SWPPP and assisting in its implementation, maintenance, and revision. The SWPPP must clearly identify the responsibilities of each team member. The activities and responsibilities of the team must address all aspects of facility's Plan.
- (2) *Risk Identification and Assessment/Material Inventory.* The SWPPP must assess the potential of various sources that contribute pollutants to storm water. The SWPPP must also include an inventory of the types of materials handled. Each of the following must be evaluated for the reasonable potential for contributing pollutants to runoff: loading and unloading operations, outdoor manufacturing or processing activities, significant dust or particulate generating processes, and on-site waste disposal practices. Factors to consider include the toxicity of chemicals; quantity of chemicals used, produced, or discharged; the likelihood of contact with storm water, and the history of significant leaks or spills of toxic or hazardous pollutants.

- (3) *Preventative Maintenance.* A preventative maintenance program must involve inspection and maintenance of storm water management devices (i.e., oil/water separators, catch basins) as well as inspecting and testing equipment and systems to uncover conditions that could cause breakdown or failures resulting in discharges of pollutants to surface waters. The SWPPP must include a preventative maintenance schedule for all components of the collection system. This schedule must include all of the minimum requirements from Part I.C of this permit.
- (4) *Good Housekeeping.* Good housekeeping requires the maintenance of a clean, orderly facility. The SWPPP must include a schedule for parking lot sweeping that addresses both floatables control and TSS removal. This schedule must comply with the minimum requirements of Part I.C.
 - Keep all exposed areas free of solid waste, garbage, and floatable debris. Solid waste, garbage and floatable debris must be stored and disposed of in such way that prevents exposure;
 - Use all known, available and reasonable methods to prevent rodents, birds, and other animals from feeding/nesting/roosting at the facility;
 - Install structural source control BMPs to address on-site activities and sources that could cause bacterial/pathogen contamination (e.g., dumpsters, compost piles, food waste and animal products).
- (5) *Spill Prevention and Response Procedure.* Areas where potential spills can occur, and their accompanying drainage points, must be identified clearly in the SWPPP. The potential for spills to enter the storm water drainage system must be eliminated wherever feasible. Where appropriate, specific material handling procedures, storage requirements, and procedures for cleaning up spills must be identified in the SWPPP and be made available to the appropriate personnel. The necessary equipment to implement a clean up must also be made available to personnel. The permittee shall immediately notify the Department of Environmental Management of any chemical releases in excess of reportable quantities.
- (6) *Storm Water Management.* The SWPPP must contain a narrative consideration of the appropriateness of traditional storm water management practices. Based on an assessment of the potential of various sources to contribute pollutants to storm water discharges (see Part I.B.5.b(2) of this permit), the SWPPP must also provide that measures, determined to be reasonable and appropriate, must be implemented and maintained.
- (7) *Sediment Transport.* The SWPPP must identify the sanding/salting procedures and/or practices that will be used to minimize the discharge of pollutants from sanding/salting practices. Items to include are; sand/salt storage, application methods, application rates, and clean-up procedures.
- (8) *Sediment and Erosion Prevention.* The SWPPP must identify areas which; due to topography, activities, or other factors; have a high potential for significant soil erosion and identify measures to limit erosion.
- (9) *Employee Training.* Employee training programs must inform personnel responsible for implementing activities identified in the SWPPP, or otherwise responsible for storm water management at all levels, of the components and goals of the SWPPP. Training should address topics

such as spill response, good housekeeping, and material management practices. The SWPPP must identify periodic dates for such training.

- (10) *Visual Inspections.* Qualified plant personnel must be identified to inspect designated equipment and site areas. Material handling areas must be inspected for evidence of, or the potential for, pollutants entering the drainage system. A tracking or follow up procedure must be used to ensure that the appropriate action has been taken in response to the inspection. Records of inspections must be maintained on site for at least five (5) years.
- (11) *Record keeping and Internal Reporting Procedures.* Incidents such as spills, or other discharges, along with other information describing the quality and quantity of storm water discharges must be included in the records. All inspections and maintenance activities must be documented and maintained on site for at least five (5) years.

c. Post-Construction Storm Water Management in New Development and Redevelopment. The permittee shall develop and implement a conceptual redevelopment plan that contains standards and criteria to address storm water runoff from new development and redevelopment projects, except parking lot resurfacing that does not include subsurface disturbances. The plan must address direct discharges of storm water to waters of the State in addition to the discharges to the storm drainage system. The permittee must ensure that controls are in place or are proposed in new or redevelopment projects to prevent or minimize water quality impacts through the management of peak flows, the reduction of runoff volume, or treatment for sediment or other pollutants of concern. The post-construction program must include:

- (1) Development and implementation of preferred strategies, which are to be incorporated into new projects. These strategies shall include a combination of structural methods such as detention basins, wet basins, infiltration basins, trenches, dry wells, galleys, vegetated swales and/or vegetated filter strips and non-structural BMPs.
- (2) Requirements that all controls to address post-construction runoff are consistent with the March 2015 State of Rhode Island Storm Water Design and Installation Manual (as amended).
- (3) Procedures to ensure adequate and long-term operation and maintenance of BMPs.
- (4) Strategies to reduce runoff volume which may include minimizing impervious areas such as roads, parking, paving or other surfaces; encouraging infiltration of non-contaminated runoff; preventing channelization; encouraging sheet flow; and where appropriate, preserving, enhancing or establishing buffers along surface water bodies and tributaries.

6. Site Inspection. An annual site inspection must be conducted by appropriate personnel named in the SWPPP to verify that the description of potential pollutant sources required under Part I.B.5.a is accurate, that the drainage map has been updated or otherwise modified to reflect current conditions, and controls to reduce pollutants in storm water discharges identified in the SWPPP are being implemented and are adequate. A tracking or follow up procedure must be used to ensure that the appropriate action has been taken in response to the inspections. Records documenting significant observations made during

the site inspection must be retained as part of the SWPPP for a minimum of five (5) years from the date of inspection.

7. Consistency with Other Plans. Storm water management controls may reflect requirements for Spill Prevention Control and Counter-measure (SPCC) plans under Section 311 of the CWA or Best Management Practices (BMP) Programs otherwise required by a RIPDES permit and may incorporate any part of such plans into the SWPPP by reference.

C. INSPECTIONS AND MAINTENANCE

1. Inspections of the BMPs are to be conducted in a manner consistent with the SWPPP. Results of all inspections must be documented and records retained on-site for a period of five (5) years.
2. At a minimum, the following activities must be conducted at the specified frequency:
 - a. Perform monthly inspections of any erodible surfaces for evidence of erosion and, if present, reseed and ensure that seed and mulch remain in place and are not washed from the soil surface until the area has been stabilized.
 - b. Perform monthly inspection of outfalls for evidence of a failure in the storm water controls to remove sediment, floatables, and/or oil from the discharge.
 - c. Perform monthly inspections of any hazardous waste storage areas for evidence of leaks. All leaks must be repaired, and the spilled material cleaned out immediately.
 - d. Perform monthly inspections of the facility for evidence of any spills of oil and/or gasoline. Any spills must be cleaned up immediately and notification shall be provided in accordance with the SPCC Plan.
 - e. Perform monthly inspections of the facility to ensure that the good housekeeping measures identified in the SWPPP are being followed.
 - f. Inspect and monitor sediment accumulation in all catch basins and solids removal systems a minimum of monthly.
 - g. Remove sediment accumulation from all catch basins and solids removal systems when the sediment volume reaches the manufacturer's recommended "clean out" level and/or if there is a failure in the solids removal system. At a minimum, sediment must be removed from all catch basins and solids removal systems quarterly.
 - h. Perform monthly inspections of solid waste storage areas for evidence of leaks and/or spills. All leaks and spills must be repaired and the spilled material cleaned out immediately.
 - i. The permittee is required to sweep all streets, roads, and parking areas within its regulated area a minimum of monthly. If it is determined that monthly sweeping is not adequate to control the amount of sediment and/or floatables being discharged from the facility, the permittee shall increase the frequency of sweeping. Any changes to the sweeping program and all documentation and supporting rationale should be reported to the DEM as part of the annual comprehensive site evaluation report required under Part I.F of this permit.
3. Sediment removal and erosion control maintenance must be performed in a manner consistent with the SWPPP. Any sediment removal and/or maintenance performed must

be documented and records retained on-site for a period of five (5) years.

4. Quarterly Visual Assessment Procedures: Once each quarter for the entire permit term (except as noted in Part I.E.), a stormwater sample from each outfall must be collected and a visual assessment of each of these samples must be conducted. These samples are not required to be collected consistent with 40 CFR Part 136 procedures but should be collected in such a manner that the samples are representative of the stormwater discharge.

The visual assessment must be made:

- Of a sample in a clean, clear glass, or plastic container, and examined in a well-lit area;
- On samples collected within the first 30 minutes of an actual discharge from a storm event. If it is not possible to collect the sample within the first 30 minutes of discharge, the sample must be collected as soon as practicable after the first 30 minutes and the reason why it was not possible to take samples within the first 30 minutes must be documented. In the case of snowmelt, samples must be taken during a period with a measurable discharge from the site; and
- For storm events, on discharges that occur at least 72 hours (3 days) from the previous discharge. The 72-hour (3-day) storm interval does not apply if it is documented that less than a 72-hour (3-day) interval is representative for local storm events during the sampling period.

The sample must be visually inspected for the following water quality characteristics:

- Color;
- Odor;
- Clarity;
- Floating solids;
- Settled solids;
- Suspended solids;
- Foam;
- Oil sheen; and
- Other obvious indicators of stormwater pollution.

Whenever the visual assessment shows evidence of stormwater pollution, the permittee must amend the SWPPP (e.g., sources of pollution, spill and leak procedures, non-stormwater discharges, selection, design, installation and implementation of the control measures) as described in Part I.B.4 of this permit. The permittee must review the SWPPP to determine if modifications are necessary to meet the effluent limits in this permit if construction or a change in design, operation, or maintenance at the facility that significantly changes the nature of pollutants discharged in stormwater from the facility, or significantly increases the quantity of pollutants discharged.

D. BENCHMARK MONITORING

1. The permittee shall compare all sampling results to the following benchmark monitoring concentrations. The following benchmark concentrations are only to be used to evaluate the overall effectiveness of the SWPPP and are not to be used as effluent limits:

Parameter	Benchmark Concentration (mg/l)
TSS	100
pH	6.0 – 9.0 S.U.
Oil and Grease	15
Total Lead	0.023
Total Zinc	0.05

2. Any quarterly exceedances of the benchmark concentrations shall trigger a reevaluation of the implementation of the existing SWPPP and facility operations to determine if there are possible problems with non-structural BMPs or maintenance that can be corrected. The SWPPP shall be promptly revised in response to these reevaluations and in no case later than thirty (30) calendar days following the receipt of monitoring results that exceed the benchmark concentrations. A report of the permittee's comparison of monitoring results with the benchmark concentrations shall be submitted with each DMR. If the permittee exceeds any of the benchmark concentrations during the monitoring period the report shall include a detailed description of the possible causes of the exceedances or of any significant increases in parameter concentrations, the dates and scopes of inspections, a summary of monitoring results and visual inspections, and any modifications made to the SWPPP to reduce the pollutant levels.
3. On a yearly basis, the permittee shall calculate the annual average of all sampling data for each pollutant for the previous calendar year (January 1 – December 31). When calculating the annual average concentrations, pollutant concentrations that were reported as less than the minimum detection limit from Part I.G shall be replaced with zeros. If the annual average exceeds the applicable benchmark concentration, then the permittee shall perform a detailed review of all storm water controls, BMPs, and maintenance schedules contained in the SWPPP and shall make all reasonable amendments to reduce the pollutant levels in the discharge. These amendments shall be submitted to the Department of Environmental Management - Office of Water Resources with the annual Comprehensive Site Evaluation Report required under Part I.F. If the amendments will include changes to structural controls, the report must include a schedule for the implementation of the proposed structural modifications. Proposed changes to structural storm water controls must be approved by the DEM prior to implementation. Upon DEM approval of the structural changes, the permittee shall implement them in accordance with the approved schedule.

E. SAMPLING WAIVER

If the permittee is unable to collect samples, due to adverse climactic conditions, which create dangerous conditions for personnel or otherwise makes the collection of a sample impractical, the permittee may submit in lieu of sampling data a description of why samples could not be collected. The Permittee is prohibited from exercising this waiver more than once during a two (2) year period. A waiver is not required when there is no discharge, due to a lack of sufficient precipitation, during a given monitoring period.

F. COMPREHENSIVE SITE EVALUATION

In accordance with Part I.B.6, an annual comprehensive site evaluation report must be prepared which summarizes the results of the site inspections required under the SWPPP. This report must include the names of the personnel who conducted the inspections, any major or recurring observations noted in the inspections, and any maintenance performed on the erosion and sedimentation control measures.

The annual comprehensive site evaluation report for a given calendar year must be submitted to the DEM at the following address by January 15th of the following year:

Supervising Sanitary Engineer
RIPDES Program
Rhode Island Department of Environmental Management
235 Promenade Street
Providence, Rhode Island 02908

G. DETECTION LIMITS

The permittee shall assure that all testing required by this permit is performed in conformance with the method detection limits listed below (the EPA method is noted for reference, other EPA approved methods found in 40 CFR Part 136 may be utilized). In accordance with 40 CFR Part 136, EPA approved analysis techniques, quality assurance procedures and quality control procedures shall be followed for all reports required to be submitted under the RIPDES program. These procedures are described in "Methods for the Determination of Metals in Environmental Samples" (EPA/600/4-91/010) and "Methods for Chemical Analysis of Water and Wastes" (EPA/600/4-79/020).

The report entitled "Methods for the Determination of Metals in Environmental Samples" includes a test which must be performed in order to determine if matrix interferences are present, and a series of tests to enable reporting of sample results when interferences are identified. Each step of the series of tests becomes increasingly complex, concluding with the complete Method of Standard Additions analysis. The analysis need not continue once a result, which meets the applicable quality control requirements, has been obtained. Documentation of all steps conducted to identify and account for matrix interferences shall be submitted along with the monitoring reports.

If, after conducting the complete Method of Standard Additions analysis, the laboratory is unable to determine a valid result, the laboratory shall report "could not be analyzed". Documentation supporting this claim shall be submitted along with the monitoring report. If valid analytical results are repeatedly unobtainable, DEM may require that the permittee determine a method detection limit (MDL) for their effluent or sludge as outlined in 40 CFR Part 136, Appendix B.

Therefore, all sample results shall be reported as: an actual value, "could not be analyzed", less than the reagent water MDL, or less than an effluent or sludge specific MDL. The effluent or sludge specific MDL must be calculated using the methods outlined in 40 CFR Part 136, Appendix B. Samples, which have been diluted to ensure that the sample concentration will be within the linear dynamic range, shall not be diluted to the extent that the analyte is not detected. If this should occur the analysis shall be repeated using a lower degree of dilution.

When calculating sample averages for reporting on discharge monitoring reports (DMRs):

1. "Could not be analyzed" data shall be excluded, and shall not be considered as failure to comply with the permit sampling requirements;
2. Results reported as less than the MDL shall be included as zeros.

LIST OF TOXIC POLLUTANTS

The following list of toxic pollutants has been designated pursuant to Section 307(a)(1) of the Clean Water Act. The Method Detection Limits (MDLs) represent the required Rhode Island MDLs.

Volatiles - EPA Method 624		MDL ug/l (ppb)
1V	acrolein	10.0
2V	acrylonitrile	5.0
3V	benzene	1.0
5V	bromoform	1.0
6V	carbon tetrachloride	1.0
7V	chlorobenzene	1.0
8V	chlorodibromomethane	1.0
9V	chloroethane	1.0
10V	2-chloroethylvinyl ether	5.0
11V	chloroform	1.0
12V	dichlorobromomethane	1.0
14V	1,1-dichloroethane	1.0
15V	1,2-dichloroethane	1.0
16V	1,1-dichloroethylene	1.0
17V	1,2-dichloropropane	1.0
18V	1,3-dichloropropylene	1.0
19V	ethylbenzene	1.0
20V	methyl bromide	1.0
21V	methyl chloride	1.0
22V	methylene chloride	1.0
23V	1,1,2,2-tetrachloroethane	1.0
24V	tetrachloroethylene	1.0
25V	toluene	1.0
26V	1,2-trans-dichloroethylene	1.0
27V	1,1,1-trichloroethane	1.0
28V	1,1,2-trichloroethane	1.0
29V	trichloroethylene	1.0
31V	vinyl chloride	1.0

Acid Compounds - EPA Method 625		MDL ug/l (ppb)
1A	2-chlorophenol	1.0
2A	2,4-dichlorophenol	1.0
3A	2,4-dimethylphenol	1.0
4A	4,6-dinitro-o-cresol	1.0
5A	2,4-dinitrophenol	2.0
6A	2-nitrophenol	1.0
7A	4-nitrophenol	1.0
8A	p-chloro-m-cresol	2.0
9A	pentachlorophenol	1.0
10A	phenol	1.0
11A	2,4,6-trichlorophenol	1.0

Pesticides - EPA Method 608		MDL ug/l (ppb)
1P	aldrin	0.059
2P	alpha-BHC	0.058
3P	beta-BHC	0.043
4P	gamma-BHC	0.048
5P	delta-BHC	0.034
6P	chlordane	0.211
7P	4,4'-DDT	0.251
8P	4,4'-DDE	0.049
9P	4,4'-DDD	0.139
10P	dieldrin	0.082
11P	alpha-endosulfan	0.031
12P	beta-endosulfan	0.036
13P	endosulfan sulfate	0.109
14P	endrin	0.050
15P	endrin aldehyde	0.062
16P	heptachlor	0.029
17P	heptachlor epoxide	0.040

Pesticides - EPA Method 608		MDL ug/l (ppb)
18P	PCB-1242	0.289
19P	PCB-1254	0.298
20P	PCB-1221	0.723
21P	PCB-1232	0.387
22P	PCB-1248	0.283
23P	PCB-1260	0.222
24P	PCB-1016	0.494
25P	toxaphene	1.670

Base/Neutral - EPA Method 625		MDL ug/l (ppb)
1B	acenaphthene *	1.0
2B	acenaphthylene *	1.0
3B	anthracene *	1.0
4B	benzidine	4.0
5B	benzo(a)anthracene *	2.0
6B	benzo(a)pyrene *	2.0
7B	3,4-benzofluoranthene *	1.0
8B	benzo(ghi)perylene *	2.0
9B	benzo(k)fluoranthene *	2.0
10B	bis(2-chloroethoxy)methane	2.0
11B	bis(2-chloroethyl)ether	1.0
12B	bis(2-chloroisopropyl)ether	1.0
13B	bis(2-ethylhexyl)phthalate	1.0
14B	4-bromophenyl phenyl ether	1.0
15B	butylbenzyl phthalate	1.0
16B	2-chloronaphthalene	1.0
17B	4-chlorophenyl phenyl ether	1.0
18B	chrysene *	1.0
19B	dibenzo (a,h)anthracene *	2.0
20B	1,2-dichlorobenzene	1.0
21B	1,3-dichlorobenzene	1.0
22B	1,4-dichlorobenzene	1.0
23B	3,3'-dichlorobenzidine	2.0
24B	diethyl phthalate	1.0
25B	dimethyl phthalate	1.0
26B	di-n-butyl phthalate	1.0
27B	2,4-dinitrotoluene	2.0
28B	2,6-dinitrotoluene	2.0
29B	di-n-octyl phthalate	1.0
30B	1,2-diphenylhydrazine (as azobenzene)	1.0
31B	fluoranthene *	1.0
32B	fluorene *	1.0
33B	hexachlorobenzene	1.0
34B	hexachlorobutadiene	1.0
35B	hexachlorocyclopentadiene	2.0
36B	hexachloroethane	1.0
37B	indeno(1,2,3-cd)pyrene *	2.0
38B	isophorone	1.0
39B	naphthalene *	1.0
40B	nitrobenzene	1.0
41B	N-nitrosodimethylamine	1.0
42B	N-nitrosodi-n-propylamine	1.0
43B	N-nitrosodiphenylamine	1.0
44B	phenanthrene *	1.0
45B	pyrene *	1.0
46B	1,2,4-trichlorobenzene	1.0

OTHER TOXIC POLLUTANTS

	MDL ug/l (ppb)
Antimony, Total	3.0
Arsenic, Total	1.0
Beryllium, Total	0.2
Cadmium, Total	0.1
Chromium, Total	1.0
Chromium, Hexavalent	20.0
Copper, Total	1.0
Iron	50
Lead, Total	1.0
Mercury, Total	0.2
Nickel, Total	1.0
Phosphorus, Total	10
Selenium, Total	2.0
Silver, Total	0.5
Thallium, Total	1.0
Zinc, Total	5.0
Asbestos	**
Cyanide, Total	10.0
Phenols, Total***	50.0
TCDD	**
MTBE (Methyl Tert Butyl Ether)	1.0

* Polynuclear Aromatic Hydrocarbons

** No Rhode Island Department of Environmental Management (RIDEM) MDL

NOTE:

The MDL for a given analyte may vary with the type of sample. MDLs, which are determined in reagent water, may be lower than those determined in wastewater due to fewer matrix interferences. Wastewater is variable in composition and may therefore contain substances (interferents) that could affect MDLs for some analytes of interest. Variability in instrument performance can also lead to inconsistencies in determinations of MDLs.

To help verify the absence of matrix or chemical interference the analyst is required to complete specific quality control procedures. For the metals analyses listed above the analyst must withdraw from the sample two equal aliquots; to one aliquot add a known amount of analyte, and then dilute both to the same volume and analyze. The unspiked aliquot multiplied by the dilution factor should be compared to the original. Agreement of the results within 10% indicates the absence of interference. Comparison of the actual signal from the spiked aliquot to the expected response from the analyte in an aqueous standard should help confirm the finding from the dilution analysis. (Methods for Chemical Analysis of Water and Wastes EPA-600/4-79/020).

For Methods 624 and 625 the laboratory must on an ongoing basis, spike at least 5% of the samples from each sample site being monitored. For laboratories analyzing 1 to 20 samples per month, at least one spiked sample per month is required. The spike should be at the discharge permit limit or 1 to 5 times higher than the background concentration determined in Section 8.3.2, whichever concentration would be larger. (40 CFR Part 136 Appendix B Method 624 and 625 subparts 8.3.1 and 8.3.11).

H. MONITORING AND REPORTING

1. Monitoring

All monitoring required by this permit shall be done in accordance with sampling and analytical testing procedures specified in 40 CFR Part 136 unless other procedures are explicitly required in the permit.

2. Reporting

Unless otherwise specified in this permit, the permittee shall submit reports, requests, and information and provide notices in the manner described in this section.

A. Submittal of DMRs Using NetDMR

The permittee shall continue to submit its monthly monitoring data in discharge monitoring reports (DMRs) to DEM electronically using NetDMR per the following schedule:

<u>Quarter Testing to be Performed</u>	<u>Report Due No Later Than</u>	<u>Results Submitted on DMR for</u>
January 1 - March 31	April 15	January 1 - March 31
April 1 - June 30	July 15	April 1 - June 30
July 1 - September 30	October 15	July 1 - September 30
October 1 - December 31	January 15	October 1 - December 31

When the permittee submits DMRs using NetDMR, it is not required to submit hard copies of DMRs to DEM.

B. Submittal of Reports as NetDMR Attachments

Unless otherwise specified in this permit, the permittee must submit electronic copies of documents in NetDMR that are directly related to the DMR. These include the following:

- DMR Cover Letters
- Below Detection Limit summary tables

C. Submittal of Reports in Hard Copy Form

The following notifications and reports shall be submitted as hard copy with a cover letter describing the submission. These reports shall be signed and dated originals submitted to DEM.

- A. Annual Comprehensive Site Inspection Report
- B. Written notifications required under Part II
- C. Notice of unauthorized discharges

This information shall be submitted to DEM at the following address:

Rhode Island Department of Environmental Management
RIPDES Program
235 Promenade Street
Providence, Rhode Island 02908

D. Verbal Reports and Verbal Notifications

Any verbal reports or verbal notifications, if required in Parts I and/or II of this permit, shall be made to the DEM. This includes verbal reports and notifications which require reporting within 24 hours. (See Part II.(I)(5) General Requirements for 24-hour reporting) Verbal reports and verbal notifications shall be made to DEM at (401) 222-4700 or (401) 222-3070 at night.

RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
235 PROMENADE STREET
PROVIDENCE, RHODE ISLAND 02908

STATEMENT OF BASIS

RHODE ISLAND POLLUTANT DISCHARGE ELIMINATION SYSTEM (RIPDES) PERMIT TO DISCHARGE TO WATERS OF THE STATE

RIPDES PERMIT NO.: **RI0023175**

NAME AND ADDRESS OF APPLICANT:

Warwick Mall
400 Bald Hill Road, Suite 100
Warwick, RI 02886

NAME AND ADDRESS OF FACILITY WHERE DISCHARGE OCCURS:

Warwick Mall
100 West Natick Road
Warwick, Rhode Island 02886

RECEIVING WATER:

Pawtuxet River – Main Stem
(Water Body ID#: RI0006017R-03)

CLASSIFICATION: **B1**

I. Proposed Action, Type of Facility, and Discharge Location

The above-named applicant has applied to the Rhode Island Department of Environmental Management (DEM) for reissuance of a RIPDES Permit to discharge into the designated receiving water. The facility is engaged in the operation of a retail mall. The discharge consists of storm water from the mall, various separate detached retail stores, a car care center, a movie theater, detached restaurants, and their associated parking lots.

II. Permit and Administrative Compliance Order Limitations and Conditions

The final effluent limitations and monitoring requirements may be found in the permit.

III. Permit Basis and Explanation of Effluent Limitation Derivation

The Warwick Mall (Mall) operates a major retail shopping site, which includes a mall, various separate detached retail stores, a car care center, a movie theater, and detached restaurants. The site is bounded by Interstate 295 and Bald Hill Road to the west, West Natick Road to the north, Route 5 to the northeast, residential apartments to the south, and the Pawtuxet River to the east. Some of the activities conducted at the Mall are located in separate buildings from the main mall facility and are leased from the Mall by their respective operators. Storm water runoff from all of these facilities enters catch basins and eventually discharges into the Pawtuxet River.

In 1972, the Federal Water Pollution Control Act, also referred to as the Clean Water Act (CWA), was amended to provide that the discharge of pollutants to waters of the United States from any point source is prohibited unless the discharge is in compliance with a National Pollutant Discharge Elimination System (NPDES) Permit. Amendments to the CWA in 1987 added Section 402(p) to the Act, which established a framework for regulating discharges of storm water under the NPDES program. In 1990, EPA issued final regulations that established application requirements for storm water permits, commonly referred to as Phase I Storm Water Rules. These rules required owners or operators of specific categories of industrial facilities, which discharge storm water directly to the waters of the United States or indirectly through a separate storm sewer system via a point source conveyance, to apply for a NPDES storm water permit. The State of Rhode Island has been delegated by EPA and is authorized to issue permits under the RIPDES Program to cover point source discharges of pollutants. In 1993 RI DEM amended the RIPDES Regulations (RI Code of Regulations: RICR-150-10-1) to include Storm Water Rules.

In 1994 the DEM designated the facility as a significant contributor of pollutants to the Pawtuxet River. This determination was made since the Pawtuxet River, on which the facility is located, is a heavily urbanized river that is impacted by pollution from contaminated storm water runoff. Based upon a review of the DEM's Technical Reports #1 and #2 in Support of the Pawtuxet River Basin Plan, titled "Stormwater Runoff Loadings and Impervious Area Calculations in the Pawtuxet River Basin" and "An Evaluation of Storm Drainage Systems in the Pawtuxet River Basin", it was determined that the above-mentioned facility is one of the largest commercial developments in the receiving water's river segment and, as a result, is a significant contributor of storm water pollutants to the Pawtuxet River. Therefore, in accordance with the RIPDES Regulations (RI Code of Regulations: RICR-150-10-1-32.A.1.g.), the facility was required to apply for an individual RIPDES permit.

When developing effluent limits for RIPDES Permits, DEM is required to consider limits based on the technology available to treat the pollutants (technology-based limits) and limits that are protective of the designated uses of the receiving water (water quality-based limits). EPA and DEM regulations require RIPDES permits to contain effluent limits that are more stringent than technology based limits where more stringent limits are necessary to maintain or achieve Federal or State water quality standards. The permit must also limit any pollutants that are or may be discharged at levels that caused, have the reasonable potential to cause, or contribute to an excursion above any water quality criterion. An excursion occurs if the projected or actual in stream concentrations exceed the applicable criterion.

Effluent limitations are not defined exclusively as numeric Water-Quality Based Effluent Limitations (WQBELs). To the contrary, Section 502 of the CWA defines "effluent limitations" as "any restriction established by a State or the Administrator on quantities, rates, and concentrations of ... other constituents which are discharged from point sources". Therefore, although RIPDES permits must contain conditions to ensure that water quality standards are met, DEM can use narrative conditions and best management practices (BMPs) to achieve this requirement. These BMPs may include treatment requirements, operating procedures, and practices to control site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

This concept is further outlined in the EPA's *Interim Permitting Approach for Water Quality-Based Effluent Limitations in Storm Water Permits* guidance document. This document states that it is appropriate for storm water discharge permits to "use best management practices (BMPs) in first-round storm water permits and expanded or better-tailored BMPs in subsequent permits, where necessary". The EPA supports the use of BMP based permits since "numeric limitations for storm water permits can be very difficult to develop at this time because of the existing state of knowledge about the intermittent and variable nature of these types of discharges and their effects on receiving waters" and since the current methodologies for developing WQBELs "were designed primarily for

process wastewater discharges which occur at predictable rates with predictable pollutant loadings under low flow conditions in receiving waters”.

The RIPDES Regulations (RI Code of Regulations: RIPDES 250-RICR-150-10-1-16.A.) state that each permit shall contain conditions, when applicable, to adopt BMPs to control or abate the discharge of pollutants when: authorized under Section 402(p) of CWA for the control of storm water discharges. Therefore, this permit contains terms and conditions to ensure that the permittee implements appropriate BMPs and a SWPPP as the key strategies to assure compliance with water quality standards.

This permit authorizes the discharge of storm water and certain allowable non-storm water discharges. Non-storm water discharges that are authorized under this permit are limited to discharges from fire fighting activities; fire hydrant flushings; external building washdowns that do not use detergents; lawn watering; uncontaminated ground water; springs; air conditioning condensate; potable waterline flushings; irrigation drainage; and foundation or footing drains where flows are not contaminated with process materials, such as solvents, or contaminated by contact with soils, where spills or leaks of toxic or hazardous materials has occurred. If any of these discharges may reasonably be expected to be present and to be mixed with storm water discharges, they must be specifically identified and addressed in the facility's Storm Water Pollution Prevention Plan.

The following outfalls were identified in a August 1996 SWPPP and are authorized by this permit: Outfall 001A (24" reinforced concrete pipe that collects storm water runoff from the southern portion of the outfall 001 drainage area), 001B (42" reinforced concrete pipe that collects storm water runoff from the outfall 001 drainage area), 001C (24" reinforced concrete pipe that collects storm water runoff from the northern portion of the outfall 001 drainage area), 002A (36" reinforced concrete pipe that collects storm water runoff from the outfall 002 drainage area), 003A (24" reinforced concrete pipe that collects storm water runoff from the southern portion of the outfall 003 drainage area), and 003B (36" reinforced concrete pipe that collects storm water runoff from the northern portion of the outfall 003 drainage area). A review of monitoring data from October 2006 – September 2011 performed during the reissuance of the facility's 2012 permit revealed that outfalls 001A, 001B and 001C had similar effluent characteristics. That analysis also found that the sampling results for the monitoring period at outfalls 001A and 001B were below the benchmark values (except pH). Since the drainage area for outfall 001A was much smaller than 001B, the monitoring requirements for outfall 001A were been eliminated from Part I.A.1. Therefore, this permit continues to require monitoring at outfalls 001B, 001C, 002A, 003A, and 003B.

Selection of Pollutants of Concern

As indicated above, RIPDES permits may contain narrative conditions and best management practices (BMPs) to ensure that water quality standards will be met. These BMPs may include operating procedures and practices to control site runoff, spillage or leaks, sludge or waste disposal, or drainage. However, it is necessary to identify the specific pollutants that will be used to monitor the permittee's effectiveness in implementing the BMPs. When determining the specific pollutants of concern, the DEM compared the allowable pollutant loads that can be discharged from point sources into the Pawtuxet River (based on the effective RIPDES permit limitations) to the pollutant loads from storm water discharges (based upon the data contained in the DEM's Technical Reports and the National Urban Runoff Program (NURP) data). Based upon a review of this comparison (see Attachment 1), it was determined that storm water is a significant source of Total Suspended Solids (TSS), Total Lead, and Total Zinc to the Pawtuxet River, contributing 36%, 84% and 54% of the total load to the river, respectively. In addition, storm water is also a significant source of hydrocarbons due to the potential for runoff from commercial areas to contain automobile fluids. Therefore, it was determined that the permittee is a significant source of Oil & Grease. Contamination of storm water can also have the potential to impact the pH of the runoff. As a result, pH was viewed as a pollutant of concern. Lastly, since the main stem of the Pawtuxet River is listed as being impaired for Total Phosphorus and Enterococcus they are

pollutants of concern. As a result of this analysis, it was determined that the pollutants of concern for this facility include TSS, Total Lead, Total Zinc, Oil & Grease, Total Phosphorus, Enterococcus, and pH.

The water body is no longer impaired for BOD, therefore BOD monitoring has been removed from the permit.

Receiving Water Description

The water body that receives the discharge from Warwick Mall is the Pawtuxet River.

The water body segment for the Pawtuxet River is RI0006017R-03 and is located in Warwick, West Warwick, and Cranston. This water body segment is delineated by the confluence of the North and South Branches at Riverpoint to the Pawtuxet Cove Dam at Pawtuxet. This segment of the Blackstone River is listed on DEM's 2016 303(d) List of Impaired Water Bodies (dated March 2018) as being impaired for Enterococcus, Non-Native Plants, Total Phosphorus, and Mercury in Fish Tissue. The water body segment for the Pawtuxet River is classified as a Class B1 water body according to the Rhode Island Water Quality Regulations. Class B1 waters are designated for primary and secondary contact recreation activities and fish and wildlife habitat. They shall be suitable for compatible industrial processes and cooling, hydropower, aquacultural uses, navigation, and irrigation and other agricultural uses. Class B1 waters shall have good aesthetic value. Primary contact recreational activities may be impacted due to pathogens from approved wastewater discharges. However, all Class B criteria must be met.

Water Quality-Based Permit Requirements

Due to the difficulty in determining which pollutants may have reasonable potential to cause a water quality violation, based on the intermittent nature of storm water discharges, the DEM does not typically establish numeric water quality based effluent limits for storm water discharges. Instead, the DEM uses benchmark monitoring to monitor the quality of the storm water discharges. Benchmark monitoring concentrations are not permit limits and are not directly correlated to water quality standards. Instead, they are generic pollutant levels that EPA developed to be protective of water quality under nearly all scenarios. As described in the Fact Sheet for the 2019 draft RIPDES Multi-Sector General Permit for Stormwater, benchmarks are target concentrations that are intended to assist facilities in determining whether their pollution control measures are adequate to protect water quality. A benchmark exceedance does not necessarily indicate that a discharge is causing or contributing to a violations of an instream water quality standard, but it does require that the facility evaluate control measures and follow-up corrective actions by triggering a review of the facility's storm water controls by modifying such controls as necessary.

Since TSS, Total Lead, Total Zinc, Oil & Grease, and pH have been identified as pollutants of concern for this facility, based on their potential to cause adverse water quality impacts, benchmark concentrations for TSS, Oil & Grease, and pH have maintained in this permit. Also, benchmarks for Total Lead and Total Zinc have been lowered to be consistent with the benchmarks from the 2019 RIPDES Multi-Sector General Permit using available hardness data for the Pawtuxet River main stem. The values for the Total Lead and Total Zinc benchmarks were selected using a table from the draft 2019 Multi-Sector General Permit for Industrial Stormwater using a hardness range of 25-50 mg/L, which is consistent with the 75th percentile hardness value for the receiving water and is also consistent with the majority (91 out of 127) of hardness data points for the receiving water. Hardness data is attached to this document as Attachment B. In addition, since the Pawtuxet River, in the vicinity of the discharge, is listed as being impaired for Phosphorus, Total Phosphorus monitoring has been maintained in the permit, as noted above. Also as noted above, BOD monitoring has been removed from the permit, and Enterococci monitoring has been added to the permit, as noted above, due to the changes in the

impairment status of the receiving water for dissolved oxygen and Enterococci respectively. It should be noted that a benchmark concentrations for Total Phosphorus has not been included in this permit, since the pollutant loads for this pollutant from this facility were much lower than their loads from other facilities (see Attachment A). However, the monitoring data for Phosphorus will allow the DEM to be able to characterize the pollutant loading from this facility to be used to verify that the relative loading of these pollutants remains low.

A comparison of historic annual average effluent data was compared to benchmarks, and that analysis, presented in Attachment C, has shown that this facility consistently met its applicable benchmark concentrations for Lead, and about 75% of its applicable benchmark concentrations for Zinc. Therefore, the permit requires that the facility continue to implement its SWPPP and BMPs. Even when comparing Zinc and Lead monitoring data for the last 6 years to the new, lower benchmarks for Zinc and Lead, the facility still meets its Zinc benchmarks 60% of the time and the facility meets the Lead benchmark about 96% of the time.

Technology-Based Permit Requirements

The above-mentioned facility is not subject to any federal effluent guidelines. Therefore, there are no technology-based limits for this discharge at this time.

BPJ-Based Permit Requirements

Based on best professional judgment, the DEM has assigned a requirement that the facility develop and implement a Storm Water Pollution Prevention Plan (SWPPP).

Antibacksliding/Antidegradation

The Antibacksliding Provision of the Clean Water Act (found at Section 402(o) and repeated at 40 CFR 122.44(l)) prohibits reissuing a permit containing less stringent effluent limits than the comparable limits from the previous permit. Since none of the permit limits, both concentration and mass loadings, are less stringent than in the previous permit, antibacksliding regulations are being met.

Additional Permit Requirements

The permit requires that inspections of the storm water controls be conducted in a manner consistent with the SWPPP and identifies some of the key inspections that must be conducted along with their minimum frequencies. The permit also requires that the SWPPP address post-construction storm water management in new development and redevelopment projects. Lastly, the permit also includes a requirement that the permittee complete an annual comprehensive site evaluation report and submit it to the DEM by January 15th of each year, for the previous calendar year. These reports must summarize the results of the site inspections required under the permit. The remaining general and specific conditions of the permit are based on the RIPDES Regulations (RI Code of Regulations: 250-RICR-150-10) as well as 40 CFR Parts 122 through 125 and consist primarily of requirements common to all storm water permits. The permit contains new requirements for quarterly visual assessments (Part I.C.4.) and e-Reporting (Part I.H.2.).

Table No. 1 Final Permit Monitoring Requirements – outfalls 001B, 001C, 002A, 003A, and 003B

Parameter	Monthly Average (Minimum)	Weekly Average	Daily Maximum (Maximum)
Flow	--- MGD		
TSS			--- mg/l
Enterococci			CFU/100 mL
pH	(--- SU)		(--- SU)
Oil and Grease			--- mg/l
Phosphorus, Total			--- mg/l
Lead, Total			--- mg/l
Zinc, Total			--- mg/l

--- Signifies a parameter which must be monitored and data must be reported; no limit has been established at this time.

IV. Comment Period, Hearing Requests, and Procedures for Final Decisions

All persons, including applicants, who believe any condition of the draft permit is inappropriate must raise all issues and submit all available arguments and all supporting material for their arguments in full by the close of the public comment period, to the Rhode Island Department of Environmental Management, Office of Water Resources, 235 Promenade Street, Providence, Rhode Island, 02908-5767. Any person, prior to such date, may submit a request in writing for a public hearing to consider the draft permit to the Rhode Island Department of Environmental Management. Such requests shall state the nature of the issues proposed to be raised in the hearing. A public hearing may be held after at least thirty (30) days public notice whenever the Director finds that response to this notice indicates significant public interest. In reaching a final decision on the draft permit the Director will respond to all significant comments and make these responses available to the public at DEM's Providence Office.

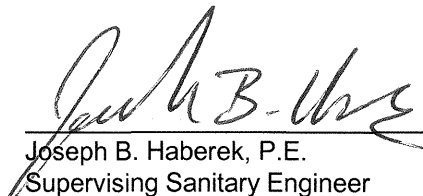
Following the close of the comment period, and after a public hearing, if such hearing is held, the Director will issue a final permit decision and forward a copy of the final decision to the applicant and each person who has submitted written comments or requested notice. Within thirty (30) days following the notice of the final permit decision any interested person may submit a request for a formal hearing to reconsider or contest the final decision. Requests for formal hearings must satisfy the requirements of the RIPDES Regulations (RI Code of Regulations: 250-RICR-150-10-1.50).

V. **DEM Contact**

Additional information concerning the permit may be obtained between the hours of 8:30 a.m. and 4:00 p.m Monday through Friday, excluding holidays from:

Samuel Kaplan, P.E.
Senior Engineer
RIPDES Program
Department of Environmental Management
235 Promenade Street
Providence, Rhode Island 02908
Telephone: (401) 222-4700, extension 7046

5/17/19
Date



Joseph B. Haberek, P.E.
Supervising Sanitary Engineer
RIPDES Program
Office of Water Resources
Department of Environmental Management

ATTACHMENT A

AVERAGE EFFLUENT CHARACTERISTICS: Outfall 001B (7/13 - 6/18)

PARAMETER	AVERAGE	MAXIMUM
Flow	0.33 MGD	3.69 MGD
TSS	27.51mg/l	190 mg/l
Oil and Grease	1.86 mg/l	14 mg/l
Total Lead	0.0199 mg/l	0.05 mg/l
Total Zinc	0.080 mg/l	0.30 mg/l
pH	6.12 S.U.	
BOD	12.28mg/l	52 mg/l
Phosphorus	0.81 mg/l	11 mg/l

AVERAGE EFFLUENT CHARACTERISTICS: Outfall 001C (7/13 - 6/18)

PARAMETER	AVERAGE	MAXIMUM
Flow	0.31 MGD	1.75 MGD
TSS	34.31 mg/l	260 mg/l
Oil and Grease	4.13 mg/l	25 mg/l
Total Lead	0.0174 mg/l	0.054 mg/l
Total Zinc	0.0788 mg/l	0.546 mg/l
pH	6.23 S.U.	
BOD	8.89 mg/l	29 mg/l
Phosphorus	0.38 mg/l	4.3 mg/l

AVERAGE EFFLUENT CHARACTERISTICS: Outfall 002A (7/13 - 6/18)

PARAMETER	AVERAGE	MAXIMUM
Flow	0.30 MGD	3.45 MGD
TSS	13.37 mg/l	110 mg/l
Oil and Grease	1.85 mg/l	10 mg/l
Total Lead	0.016 mg/l	0.05 mg/l
Total Zinc	0.122 mg/l	0.469 mg/l
pH	6.26 S.U.	
BOD	6.19 mg/l	14 mg/l
Phosphorus	0.1022 mg/l	0.28 mg/l

AVERAGE EFFLUENT CHARACTERISTICS: Outfall 003A (7/13 - 6/18)

PARAMETER	AVERAGE	MAXIMUM
Flow	0.29 MGD	2.63 MGD
TSS	26.34 mg/l	190 mg/l
Oil and Grease	3.64 mg/l	16 mg/l
Total Lead	0.0156 mg/l	0.5 mg/l
Total Zinc	0.0981 mg/l	0.57 mg/l
pH	6.2 S.U.	
BOD	9.69 mg/l	44 mg/l
Phosphorus	0.1 mg/l	0.36 mg/l

ATTACHMENT A, Cont.

AVERAGE EFFLUENT CHARACTERISTICS: Outfall 003B (7/13 - 6/18)

PARAMETER	AVERAGE	MAXIMUM
Flow	0.7265 MGD	9.42 MGD
TSS	29.95 mg/l	240 mg/l
Oil and Grease	2.63 mg/l	11 mg/l
Total Lead	0.017 mg/l	0.05 mg/l
Total Zinc	0.12 mg/l	0.49 mg/l
pH	6.3 S.U.	
BOD	7.96 mg/l	24 mg/l
Phosphorus	0.1256 mg/l	0.39 mg/l

Organization	Waterbody	Station	StationType	SampleDate	Parameter	Result	Unit
(\RIDEM - Mon A Pawtuxet River M	PXT07a	Grab	10/17/2016 0:00	Hardness	6.98	Milligrams per Liter	
(\USGS	U Pawtuxet River M	1116617 Composite	3/24/2010 0:00	Hardness	14.5	Milligrams per Liter	
(\RIDEM - Mon A Pawtuxet River M	PXT06	Grab	6/20/2012 0:00	Hardness	17.8	Milligrams per Liter	
(\RIDEM - Mon A Pawtuxet River M	PXT06	Grab	10/17/2016 0:00	Hardness	19.4	Milligrams per Liter	
(\USGS	U Pawtuxet River M	1116617 Composite	1/27/2010 0:00	Hardness	20	Milligrams per Liter	
(\RIDEM - Mon A Pawtuxet River M	PXT06	Grab	10/22/2012 0:00	Hardness	20.8	Milligrams per Liter	
(\RIDEM - Mon A Pawtuxet River M	PXT06	Grab	12/3/2012 0:00	Hardness	21.6	Milligrams per Liter	
(\USGS	U Pawtuxet River M	1116617 Composite	2/24/2010 0:00	Hardness	22.2	Milligrams per Liter	
(\USGS	U Pawtuxet River M	1116617 Composite	9/30/2015 0:00	Hardness	22.4	Milligrams per Liter	
(\RIDEM - Mon A Pawtuxet River M	PXT06	Grab	8/29/2016 0:00	Hardness	22.4	Milligrams per Liter	
(\RIDEM - Mon A Pawtuxet River M	PXT07a	Grab	10/22/2012 0:00	Hardness	24.2	Milligrams per Liter	
(\USGS	U Pawtuxet River M	1116617 Composite	4/29/2010 0:00	Hardness	24.8	Milligrams per Liter	
(\USGS	U Pawtuxet River M	1116617 Composite	3/31/2014 0:00	Hardness	26.3	Milligrams per Liter	
(\RIDEM - Mon A Pawtuxet River M	PXT06	Grab	6/28/2016 0:00	Hardness	26.4	Milligrams per Liter	
(\RIDEM - Mon A Pawtuxet River M	PXT08	Grab	10/22/2012 0:00	Hardness	26.8	Milligrams per Liter	
(\USGS	U Pawtuxet River M	1116617 Composite	4/29/2014 0:00	Hardness	27	Milligrams per Liter	
(\USGS	U Pawtuxet River M	1116617 Composite	2/26/2009 0:00	Hardness	28	Milligrams per Liter	
(\USGS	U Pawtuxet River M	1116617 Composite	4/27/2011 0:00	Hardness	29.2	Milligrams per Liter	
(\RIDEM - Mon A Pawtuxet River M	PXT07a	Grab	12/3/2012 0:00	Hardness	29.5	Milligrams per Liter	
(\RIDEM - Mon A Pawtuxet River M	PXT09	Grab	10/22/2012 0:00	Hardness	30.2	Milligrams per Liter	
(\USGS	U Pawtuxet River M	1116617 Composite	3/26/2013 0:00	Hardness	30.7	Milligrams per Liter	
(\RIDEM - Mon A Pawtuxet River M	PXT08	Grab	12/3/2012 0:00	Hardness	30.9	Milligrams per Liter	
(\RIDEM - Mon A Pawtuxet River M	PXT07a	Grab	6/20/2012 0:00	Hardness	31.6	Milligrams per Liter	
(\USGS	U Pawtuxet River M	1116617 Composite	4/30/2009 0:00	Hardness	32.2	Milligrams per Liter	
(\USGS	U Pawtuxet River M	1116617 Composite	10/25/2011 0:00	Hardness	32.2	Milligrams per Liter	
(\USGS	U Pawtuxet River M	1116617 Composite	6/26/2012 0:00	Hardness	32.2	Milligrams per Liter	
(\USGS	U Pawtuxet River M	1116617 Composite	12/9/2009 0:00	Hardness	32.5	Milligrams per Liter	
(\USGS	U Pawtuxet River M	1116617 Composite	3/2/2011 0:00	Hardness	32.6	Milligrams per Liter	
(\USGS	U Pawtuxet River M	1116617 Composite	11/29/2011 0:00	Hardness	32.6	Milligrams per Liter	
(\USGS	U Pawtuxet River M	1116617 Composite	1/4/2012 0:00	Hardness	32.6	Milligrams per Liter	
(\USGS	U Pawtuxet River M	1116617 Composite	5/25/2011 0:00	Hardness	33.1	Milligrams per Liter	
(\RIDEM - Mon A Pawtuxet River M	PXT08	Grab	6/28/2016 0:00	Hardness	33.5	Milligrams per Liter	
(\USGS	U Pawtuxet River M	1116617 Composite	6/25/2013 0:00	Hardness	33.7	Milligrams per Liter	

Warwick Mall spreadsheet 030819 - Attachment B - hardness value

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(\USGS	U Pawtuxet River M	1116617	Composite	12/18/2012 0:00	Hardness	33.8	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	1/24/2012 0:00	Hardness	33.9	Milligrams per Liter
(\RIDEM - Mon A	Pawtuxet River M PXT08		Grab	6/20/2012 0:00	Hardness	33.9	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	4/24/2012 0:00	Hardness	34.2	Milligrams per Liter
(\RIDEM - Mon A	Pawtuxet River M PXT08		Grab	10/17/2016 0:00	Hardness	34.5	Milligrams per Liter
(\RIDEM - Mon A	Pawtuxet River M PXT10		Grab	10/17/2016 0:00	Hardness	34.6	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	1/29/2009 0:00	Hardness	34.7	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	5/22/2012 0:00	Hardness	34.8	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	12/16/2014 0:00	Hardness	35.4	Milligrams per Liter
(\RIDEM - Mon A	Pawtuxet River M PXT10		Grab	10/22/2012 0:00	Hardness	35.9	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	5/31/2016 0:00	Hardness	36	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	4/30/2015 0:00	Hardness	36.3	Milligrams per Liter
(\RIDEM - Mon A	Pawtuxet River M PXT09		Grab	12/3/2012 0:00	Hardness	36.5	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	7/22/2009 0:00	Hardness	36.6	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	11/18/2009 0:00	Hardness	36.6	Milligrams per Liter
(\RIDEM - Mon A	Pawtuxet River M PXT11		Grab	10/22/2012 0:00	Hardness	36.6	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	11/24/2014 0:00	Hardness	37	Milligrams per Liter
(\RIDEM - Mon A	Pawtuxet River M PXT09		Grab	6/20/2012 0:00	Hardness	37.3	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	4/30/2013 0:00	Hardness	37.4	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	5/28/2009 0:00	Hardness	37.6	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	5/27/2014 0:00	Hardness	38.3	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	3/26/2009 0:00	Hardness	38.4	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	3/24/2015 0:00	Hardness	39.2	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	2/26/2013 0:00	Hardness	39.3	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	1/28/2014 0:00	Hardness	39.3	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	8/25/2010 0:00	Hardness	39.4	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	9/27/2011 0:00	Hardness	39.5	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	3/30/2011 0:00	Hardness	39.6	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	6/3/2015 0:00	Hardness	39.6	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	10/29/2014 0:00	Hardness	39.8	Milligrams per Liter
(\RIDEM - Mon A	Pawtuxet River M PXT07a		Grab	8/29/2016 0:00	Hardness	39.8	Milligrams per Liter
(\RIDEM - Mon A	Pawtuxet River M PXT08		Grab	8/29/2016 0:00	Hardness	40.9	Milligrams per Liter
(\RIDEM - Mon A	Pawtuxet River M PXT07a		Grab	6/28/2016 0:00	Hardness	41	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	11/29/2016 0:00	Hardness	41.1	Milligrams per Liter

Warwick Mall spreadsheet 030819 - Attachment B - hardness value

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(\USGS	U Pawtuxet River M	1116617 Composite	6/30/2015 0:00 Hardness	41.9	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	6/9/2010 0:00 Hardness	42	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	1/27/2016 0:00 Hardness	42	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	6/30/2010 0:00 Hardness	42.1	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	11/30/2010 0:00 Hardness	42.5	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	8/28/2013 0:00 Hardness	42.5	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	10/23/2012 0:00 Hardness	43	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	1/29/2013 0:00 Hardness	43	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	2/22/2016 0:00 Hardness	43.2	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	2/3/2011 0:00 Hardness	43.3	Milligrams per Liter
(\RIDEM - Mon A	Pawtuxet River M PXT09	Grab	6/28/2016 0:00 Hardness	43.5	Milligrams per Liter
(\RIDEM - Mon A	Pawtuxet River M PXT10	Grab	12/3/2012 0:00 Hardness	43.9	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	11/30/2015 0:00 Hardness	44	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	12/20/2016 0:00 Hardness	44.1	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	4/28/2016 0:00 Hardness	44.4	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	10/26/2016 0:00 Hardness	44.5	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	6/24/2009 0:00 Hardness	44.9	Milligrams per Liter
(\RIDEM - Mon A	Pawtuxet River M PXT10	Grab	6/20/2012 0:00 Hardness	45.1	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	11/27/2012 0:00 Hardness	45.1	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	12/28/2015 0:00 Hardness	45.4	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	6/24/2014 0:00 Hardness	45.6	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	2/28/2012 0:00 Hardness	46.1	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	6/29/2011 0:00 Hardness	46.3	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	1/4/2011 0:00 Hardness	46.5	Milligrams per Liter
(\RIDEM - Mon A	Pawtuxet River M PXT11	Grab	6/20/2012 0:00 Hardness	46.6	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	12/17/2013 0:00 Hardness	46.8	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	5/28/2013 0:00 Hardness	47.1	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	2/5/2015 0:00 Hardness	47.2	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	11/5/2013 0:00 Hardness	47.4	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	3/30/2016 0:00 Hardness	47.7	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	2/24/2015 0:00 Hardness	48	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617 Composite	10/26/2015 0:00 Hardness	48.5	Milligrams per Liter
(\RIDEM - Mon A	Pawtuxet River M PXT09	Grab	10/17/2016 0:00 Hardness	48.6	Milligrams per Liter
(\RIDEM - Mon A	Pawtuxet River M PXT11	Grab	10/17/2016 0:00 Hardness	49	Milligrams per Liter

(\USGS	U Pawtuxet River M	1116617	Composite	3/27/2012 0:00	Hardness	49.1	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	7/21/2010 0:00	Hardness	49.5	Milligrams per Liter
(\RIDEM - Mon A	Pawtuxet River M PXT11	Grab		12/3/2012 0:00	Hardness	50.3	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	9/16/2009 0:00	Hardness	50.5	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	2/25/2014 0:00	Hardness	50.5	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	8/31/2011 0:00	Hardness	50.6	Milligrams per Liter
(\RIDEM - Mon A	Pawtuxet River M PXT09	Grab		8/29/2016 0:00	Hardness	50.6	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	11/3/2010 0:00	Hardness	53.6	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	8/27/2009 0:00	Hardness	54.9	Milligrams per Liter
(\RIDEM - Mon A	Pawtuxet River M PXT11	Grab		8/29/2016 0:00	Hardness	55.8	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	9/22/2010 0:00	Hardness	56.1	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	7/29/2015 0:00	Hardness	56.9	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	8/8/2013 0:00	Hardness	58.5	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	9/25/2012 0:00	Hardness	60.6	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	7/23/2014 0:00	Hardness	61.2	Milligrams per Liter
(\RIDEM - Mon A	Pawtuxet River M PXT11	Grab		6/28/2016 0:00	Hardness	61.2	Milligrams per Liter
(\RIDEM - Mon A	Pawtuxet River M PXT10	Grab		6/28/2016 0:00	Hardness	61.4	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	9/28/2016 0:00	Hardness	61.5	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	8/28/2012 0:00	Hardness	62.2	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Grab	6/29/2016 0:00	Hardness	62.4	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	8/24/2016 0:00	Hardness	63.9	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	8/27/2014 0:00	Hardness	64.1	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	7/20/2016 0:00	Hardness	64.8	Milligrams per Liter
(\RIDEM - Mon A	Pawtuxet River M PXT10	Grab		8/29/2016 0:00	Hardness	66.8	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	8/26/2015 0:00	Hardness	68.3	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	7/17/2012 0:00	Hardness	68.8	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	7/27/2011 0:00	Hardness	75.1	Milligrams per Liter
(\USGS	U Pawtuxet River M	1116617	Composite	9/25/2014 0:00	Hardness	77	Milligrams per Liter

input: percentile: 0.75

harness @ percentile: 47.7 mg/L

output: benchmark: 0.05

Pb benchmark: 0.023

River ID = RI0006017R-03

note: main stem starts near the mall and goes downstream

Attachment C - benchmark comparisons

Zn		@ outfall 001B	@ outfall 001C	@ outfall 002A	@ outfall 003A	@ outfall 003B
qtr/annual	year					
1	2013	0.03	0.04	0.05	0.05	0.03
2	2013	0.06	0.5	0.07	0.08	
3	2013	0.09	0.02	0.1	0.08	
4	2013	0.3	0.55	0.31	0.34	0.49
annual ave	2013	0.12	0.2775	0.1325	0.138	0.26
1	2014	0	0	0	0	0
2	2014	0	0	0.11	0	0.13
3	2014	0	0	0.25		0.31
4	2014	0	0	0	0	0
annual ave	2014	0	0	0.09	0	0.11
1	2015		0	0.09		
2	2015	0		0	0.09	0.09
3	2015	0	0.07	0.08	0	0
4	2015	0.11	0	0	0.08	
annual ave	2015	0.036667	0.0233	0.0425	0.057	0.045
1	2016	0	0	0	0	0
2	2016					
3	2016	0	0	0.07	0.06	0.06
4	2016	0.27	0	0.06	0	0.06
annual ave	2016	0.09	0	0.0433	0.02	0.04
1	2017			0.47	0.57	0.38
2	2017	0	0	0.14	0.05	0.11
3	2017			0.27		0.07
4	2017	0	0.11	0.06	0	0.07
annual ave	2017	0	0.055	0.235	0.207	0.1575
1	2018	0.06	0.06	0	0.05	0
2	2018	0	0	0	0	0
3	2018	0	0	0	0	0
4	2018	0	0	0	0	0
annual ave	2018	0.015	0.015	0	0.013	0

Note:

1. quarters with no discharges are shown as blank
2. quarters with effluent values below MDL are shown as 0

of annual effluent exceedances between 2013 and 2018 at outfalls
001B, 001C, 002A, 003A, 003B

permit	Zn benchmark	# exceedances
2012 permit	0.117	8 out of 30
2019 draft permit*	0.05	12 out of 30

*# of exceedances shown are hypothetical - evaluated by comparing
2013-2018 annual average effluent values by outfall to 2019 draft permit
benchmarks

Attachment C - cont.

Pb		@ outfall 001B	@ outfall 001C	@ outfall 002A	@ outfall 003A	@ outfall 003B
qtr/annual	year					
1	2013	0	0	0	0	0
2	2013	0	0	0	0.04	
3	2013	0	0	0	0	
4	2013	0.04	0.05	0	0	0.05
annual ave	2013	0.01	0.0125	0	0.01	0.025
1	2014	0	0	0	0	0
2	2014	0	0	0	0	0
3	2014	0	0	0		0
4	2014	0	0	0	0	0
annual ave	2014	0	0	0	0	0
1	2015					
2	2015	0	0	0	0	0
3	2015	0	0	0	0	0
4	2015	0	0	0	0	
annual ave	2015	0	0	0	0	0
1	2016	0	0	0	0	0
2	2016					
3	2016	0	0	0	0	0
4	2016	0	0	0	0	0
annual ave	2016	0	0	0	0	0
1	2017			0	0	0
2	2017	0	0	0	0	0
3	2017			0		0
4	2017	0	0	0	0	0
annual ave	2017	0	0	0	0	0
1	2018	0	0	0	0	0
2	2018	0	0	0	0	0
3	2018	0	0	0	0	0
4	2018	0	0	0	0	0
	2018	0	0	0	0	0

Note:

1. quarters with no discharges are shown as blank
2. quarters with effluent values below MDL are shown as 0

of annual effluent exceedances between 2013 and 2017 at outfalls
001B, 001C, 002A, 003A, 003B

permit	Pb benchmark	# exceedances
2012 permit	0.0816	0 out of 25
2019 draft permit*	0.023	1 out of 25

*# of exceedances shown are hypothetical - evaluated by comparing
2013-2018 annual average effluent values by outfall to 2019 draft permit
benchmarks

Attachment C - cont.

min pH		@	@	@	@	@
		outfall	outfall	outfall	outfall	outfall
qtr/annual	year	001B	001C	002A	003A	003B
1	2013	6.2	6.2	6.4	6.3	6.4
2	2013	5.8	5.78	5.7	5.8	
3	2013	5.9	6.1	6	5.9	
4	2013	6.4	6.8	6.8	6.5	6.7
annual ave	2013	6.075	6.22	6.225	6.125	6.55
1	2014	7	6.7	7.2	7.1	7.2
2	2014	5.9	5.8	5.8		5.6
3	2014	6.4	6.3	6.1	5.2	6
4	2014	5.8	5.6	5.5		5.3
annual ave	2014	6.275	6.1	6.15	6.15	6.025
1	2015					
2	2015	5.8	5.3	5.5	5.4	5.5
3	2015	5.5	5.7	5.7	5.6	5.8
4	2015	4.5	5.7	6.2	6	
annual ave	2015	5.266667	5.5667	5.8	5.667	5.65
1	2016	5.8	6.2	6.2	6.2	6
2	2016					
3	2016	6.5	6.5	6.4	6.9	6.7
4	2016	6.3	6.5	6.3	6.4	6.3
annual ave	2016	6.2	6.4	6.3	6.5	6.33333
1	2017			6.3	6.1	6.2
2	2017	6.7	6.6	6.6	6.5	6.5
3	2017			7		7
4	2017	6.4	6.9	6.7	6.6	6.5
annual ave	2017	6.55	6.75	6.65	6.4	6.55
1	2018	6.6	6.4	6.4	6.5	6.5
2	2018	6.4	6.6	6.4	6.4	6.6
3	2018	6.2	6.5	6.5	6.6	6.7
4	2018	6.4	6.3	6.2	6.2	6.2
	2018	6.4	6.45	6.375	6.425	6.5

Note:

1. quarters with no discharges are shown as blank
2. quarters with effluent values below MDL are shown as 0

of annual effluent exceedances between 2013 and 2018 at outfalls
001B, 001C, 002A, 003A, 003B

min pH benchmark	# exceedances
6.0	5 out of 30

Attachment C - cont.

max pH		@	@	@	@	@
		outfall	outfall	outfall	outfall	outfall
qtr/annual	year	001B	001C	002A	003A	003B
1	2013	6.2	6.2	6.4	6.3	6.4
2	2013	5.8	5.7	5.7	5.8	
3	2013	5.9	6.1	6	5.9	
4	2013	6.4	6.8	6.8	6.5	6.7
annual ave	2013	6.075	6.2	6.225	6.125	6.55
1	2014	7	6.7	7.2	7.1	7.2
2	2014	5.9	5.8	5.8	5.7	5.6
3	2014	6.4	6.3	6.1		
4	2014	5.8	5.6	5.5	5.2	5.3
annual ave	2014	6.275	6.1	6.15	6	6.03333
1	2015					
2	2015	5.8	5.3	5.5	5.4	5.5
3	2015	5.5	5.7	5.7	5.6	5.8
4	2015	4.5	5.7	5.7	6	
annual ave	2015	5.266667	5.5667	5.6333	5.667	5.65
1	2016	5.8	6.2	6.2	6.2	6
2	2016	5.5				
3	2016	4.5	6.5	6.4	6.9	6.7
4	2016	5.8	6.5	6.3	6.4	6.3
annual ave	2016	5.4	6.4	6.3	6.5	6.33333
1	2017			6.3	6.1	6.2
2	2017	6.7	6.6	6.6	6.5	6.5
3	2017			7		7
4	2017	6.4	6.9	6.7	6.6	6.5
annual ave	2017	6.55	6.75	6.65	6.4	6.55
1	2018	6.6	6.4	6.4	6.5	6.5
2	2018	6.4	6.6	6.4	6.4	6.6
3	2018	6.2	6.5	6.5	6.6	6.7
4	2018	6.4	6.3	6.2	6.2	6.2
	2018	6.4	6.45	6.375	6.425	6.5

Note:

1. quarters with no discharges are shown as blank
2. quarters with effluent values below MDL are shown as 0

of annual effluent exceedances between 2013 and 2018 at outfalls
001B, 001C, 002A, 003A, 003B

max pH benchmark	# exceedances
9.0	0 out of 30

Attachment C - cont.

TSS, mg/L		@	@	@	@	@
		outfall	outfall	outfall	outfall	outfall
qtr/annual	year	001B	001C	002A	003A	003B
1	2013	10	56	35	55	39
2	2013	5	4.7	0	7.3	
3	2013	13	8.7	14	0	
4	2013	190	260	110	190	240
annual ave	2013	54.5	82.35	39.75	63.08	139.5
1	2014	28	67	33	54	55
2	2014	11	23	5	14	19
3	2014	2	4	3.7		10
4	2014	14	11	5.3	11	13
annual ave	2014	13.75	26.25	11.75	26.33	24.25
1	2015					
2	2015	8.8	7.3	0	6.3	5.3
3	2015	22	10	3.7	7.3	12
4	2015	8	0	0	0	
annual ave	2015	12.93333	5.7667	1.2333	4.533	8.65
1	2016	18	16	8	13	10
2	2016					
3	2016	0	0	0	2.5	0
4	2016	34	34	11	13	20
annual ave	2016	17.33333	16.667	6.3333	9.5	22
1	2017			8.3	46	10
2	2017	5.3	8.3	2.2	14	
3	2017			4.7		0
4	2017	19	19	5.7	8.3	56
annual ave	2017	12.15	13.65	5.225	22.77	22
1	2018	61	74	20	28	17
2	2018	4	2.8	0	12	7
3	2018	7	5.7	0	0	0
4	2018	6	3.3	0	15	4.3
	2018	19.5	21.45	5	13.75	7.075

Note:

1. quarters with no discharges are shown as blank
2. quarters with effluent values below MDL are shown as 0

of annual effluent exceedances between 2013 and 2018 at outfalls
001B, 001C, 002A, 003A, 003B

TSS b/mark, mg/L	# exceedances
100	1 out of 30

Attachment C - cont.

Oil and Grease		@	@	@	@	@
		outfall	outfall	outfall	outfall	outfall
qtr/annual	year	001B	001C	002A	003A	003B
1	2013	0	2.6	0.7	2.6	1.5
2	2013	2	0.7	1.3	2	
3	2013	2	0.9	0	0.7	
4	2013	14	15	10	16	11
annual ave	2013	4.5	4.8	3	5.325	6.25
1	2014	0.8	25	4.6	4.7	7.8
2	2014	1.2	2.7	2.1	0	1.3
3	2014	0.7	1.4	1.7		2.2
4	2014	2.8	1.1	0.8	1.6	0
annual ave	2014	1.566667	7.55	2.3	2.1	2.825
1	2015					
2	2015	0.5	1.5	0.8	15	1.5
3	2015	0.8	1	1.6	1.2	1.1
4	2015	0.7	0.8	0	1	
annual ave	2015	0.666667	1.1	0.8	5.733	1.3
1	2016	1	1.3	0.9	2.2	1.2
2	2016					
3	2016	0.7	0	0	0	0
4	2016	1.1	3.8	0.6	3.1	2.9
annual ave	2016	0.933333	1.7	0.5	1.767	1.36667
1	2017			1.3	3.9	4.5
2	2017	1.4	1.5	1.5	3.2	2.9
3	2017			0.7		0.7
4	2017	0.8	5	2.2	1.9	1.5
annual ave	2017	1.1	3.25	1.425	3	2.4
1	2018	0	2.3	0.8	2	1.1
2	2018	1.3	2.3	0	1.3	1.4
3	2018	1.7	3.2	1.6	0.9	3.6
4	2018	1.7	2.7	0		1.7
	2018	1.175	2.625	0.6	1.4	1.95

Note:

1. quarters with no discharges are shown as blank
2. quarters with effluent values below MDL are shown as 0

of annual effluent exceedances between 2013 and 2018 at outfalls
001B, 001C, 002A, 003A, 003B

O&G b/mark, mg/L	# exceedances
15	0 out of 30

PART II
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DEFINITIONS

GENERAL REQUIREMENTS

(a) Duty to Comply

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of Chapter 46-12 of the Rhode Island General Laws and the Clean Water Act (CWA) and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.

- (1) The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the CWA for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.
- (2) The CWA provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the CWA is subject to a civil penalty not to exceed \$10,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing Sections 301, 302, 306, 307 or 308 of the Act is subject to a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment of not more than 1 year, or both.
- (3) Chapter 46-12 of the Rhode Island General Laws provides that any person who violates a permit condition is subject to a civil penalty of not more than \$5,000 per day of such violation. Any person who willfully or negligently violates a permit condition is subject to a criminal penalty of not more than \$10,000 per day of such violation and imprisonment for not more than 30 days, or both. Any person who knowingly makes any false statement in connection with the permit is subject to a criminal penalty of not more than \$5,000 for each instance of violation or by imprisonment for not more than 30 days, or both.

(b) Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. The permittee shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Director. (The Director shall not grant permission for applications to be submitted later than the expiration date of the existing permit.)

(c) Need to Halt or Reduce Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(d) Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

(e) Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures, and, where applicable, compliance with DEM "Rules and Regulations Pertaining to the Operation and Maintenance of Wastewater Treatment Facilities" and "Rules and Regulations Pertaining to the Disposal and Utilization of Wastewater Treatment Facility Sludge." This provision requires the operation of back-up or auxiliary facilities or similar systems only when the operation is necessary to achieve compliance with the conditions of the permit.

(f) Permit Actions

This permit may be modified, revoked and reissued, or terminated for cause, including but not limited to: (1) Violation of any terms or conditions of this permit; (2) Obtaining this permit by misrepresentation or failure to disclose all relevant facts; or (3) A change in any conditions that requires either a temporary or permanent reduction or elimination of the authorized discharge. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

(g) Property Rights

This permit does not convey any property rights of any sort, or any exclusive privilege.

(h) Duty to Provide Information

The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

(i) Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

- (1) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
- (2) Have access to and copy, at reasonable times any records that must be kept under the conditions of this permit;
- (3) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices or operations regulated or required under this permit; and

- (4) Sample or monitor any substances or parameters at any location, at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the CWA or Rhode Island law.

(j) Monitoring and Records

- (1) Samples and measurements taken for the purpose of monitoring shall be representative of the volume and nature of the discharge over the sampling and reporting period.
- (2) The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings from continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 5 years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time.
- (3) Records of monitoring information shall include:
 - (i) The date, exact place, and time of sampling or measurements;
 - (ii) The individual(s) who performed the sampling or measurements;
 - (iii) The date(s) analyses were performed;
 - (iv) The individual(s) who performed the analyses;
 - (v) The analytical techniques or methods used; and
 - (vi) The results of such analyses.
- (4) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136 and applicable Rhode Island regulations, unless other test procedures have been specified in this permit.
- (5) The CWA provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this permit shall upon conviction, be punished by a fine of not more than \$10,000 per violation or by imprisonment for not more than 6 months per violation or by both. Chapter 46-12 of the Rhode Island General Laws also provides that such acts are subject to a fine of not more than \$5,000 per violation, or by imprisonment for not more than 30 days per violation, or by both.
- (6) Monitoring results must be reported on a Discharge Monitoring Report (DMR).
- (7) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR Part 136, applicable State regulations, or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.

(k) Signatory Requirement

All applications, reports, or information submitted to the Director shall be signed and certified in accordance with 250-RICR-150-10-1.12 of the Rhode Island Pollutant Discharge Elimination System (RIPDES) Regulations. Rhode Island General Laws, Chapter 46-12 provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than \$5,000 per violation, or by imprisonment for not more than 30 days per violation, or by both.

(l) Reporting Requirements

- (1) Planned changes. The permittee shall give notice to the Director as soon as possible of any planned physical alterations or additions to the permitted facility.
- (2) Anticipated noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with the permit requirements.
- (3) Transfers. This permit is not transferable to any person except after written notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under State and Federal law.
- (4) Monitoring reports. Monitoring results shall be reported at the intervals specified elsewhere in this permit.
- (5) Twenty-four hour reporting. The permittee shall immediately report any noncompliance which may endanger health or the environment by calling DEM at (401) 222-4700 or (401) 222-3070 at night.

A written submission shall also be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

The following information must be reported immediately:

- (i) Any unanticipated bypass which causes a violation of any effluent limitation in the permit; or
- (ii) Any upset which causes a violation of any effluent limitation in the permit; or
- (iii) Any violation of a maximum daily discharge limitation for any of the pollutants specifically listed by the Director in the permit.

The Director may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

- (6) Other noncompliance. The permittee shall report all instances of noncompliance not reported under paragraphs (1), (2), and (5), of this section, at the time monitoring reports are submitted. The reports shall contain the information required in paragraph (1)(5) of the section.
- (7) Other information. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, they shall promptly submit such facts or information.

(m) Bypass

"Bypass" means the intentional diversion of waste streams from any portion of a treatment facility.

- (1) Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs (2) and (3) of this section.
- (2) Notice.
 - (i) Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten (10) days before the date of the bypass.
 - (ii) Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in 250-RICR-150-10-1.14(R) of the RIPDES Regulations.
- (3) Prohibition of bypass.
 - (i) Bypass is prohibited, and the Director may take enforcement action against a permittee for bypass, unless:
 - (A) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage, where "severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production;
 - (B) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (C) The permittee submitted notices as required under paragraph (2) of this section.

- (ii) The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed above in paragraph (3)(i) of this section.

(n) Upset

"Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

- (1) Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitations if the requirements of paragraph (2) of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
- (2) Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - (a) An upset occurred and that the permittee can identify the cause(s) of the upset;
 - (b) The permitted facility was at the time being properly operated;
 - (c) The permittee submitted notice of the upset as required in 250-RICR-150-10-1.14(R) of the RIPDES Regulations; and
 - (d) The permittee complied with any remedial measures required under 250-RICR-150-10-1.14(E) of the RIPDES Regulations.
- (3) Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

(o) Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. Discharges which cause a violation of water quality standards are prohibited. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, production increases, or process modifications which will result in new, different or increased discharges of pollutants must be reported by submission of a new NPDES application at least 180 days prior to commencement of such discharges, or if such changes will not violate the effluent limitations specified in this permit, by notice, in writing, to the Director of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

Until such modification is effective, any new or increased discharge in excess of permit limits or not specifically authorized by the permit constitutes a violation.

(p) Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner consistent with applicable Federal and State laws and regulations including, but not limited to the CWA and the Federal Resource Conservation and Recovery Act, 42 U.S.C. §§6901 et seq., Rhode Island General Laws, Chapters 46-12, 23-19.1 and regulations promulgated thereunder.

(q) Power Failures

In order to maintain compliance with the effluent limitation and prohibitions of this permit, the permittee shall either:

In accordance with the Schedule of Compliance contained in Part I, provide an alternative power source sufficient to operate the wastewater control facilities;

or if such alternative power source is not in existence, and no date for its implementation appears in Part I,

Halt reduce or otherwise control production and/or all discharges upon the reduction, loss, or failure of the primary source of power to the wastewater control facilities.

(r) Availability of Reports

Except for data determined to be confidential under paragraph (w) below, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the DEM, 291 Promenade Street, Providence, Rhode Island. As required by the CWA, effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 309 of the CWA and under Section 46-12-14 of the Rhode Island General Laws.

(s) State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law.

(t) Other Laws

The issuance of a permit does not authorize any injury to persons or property or invasion of other private rights, nor does it relieve the permittee of its obligation to comply with any other applicable Federal, State, and local laws and regulations.

(u) Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

(v) Reopener Clause

The Director reserves the right to make appropriate revisions to this permit in order to incorporate any appropriate effluent limitations, schedules of compliance, or other provisions which may be authorized under the CWA or State law. In accordance with 250-RICR-150-10-1.16 and 250-RICR-150-10-1.24 of the RIPDES Regulations, if any effluent standard or prohibition, or water quality standard is promulgated under the CWA or under State law which is more stringent than any limitation on the pollutant in the permit, or controls a pollutant not limited in the permit, then the Director may promptly reopen the permit and modify or revoke and reissue the permit to conform to the applicable standard.

(w) Confidentiality of Information

(1) Any information submitted to DEM pursuant to these regulations may be claimed as confidential by the submitter. Any such claim must be asserted at the time of submission in the manner prescribed on the application form or instructions or, in the case of other submissions, by stamping the words "confidential business information" on each page containing such information. If no claim is made at the time of submission, DEM may make the information available to the public without further notice.

(2) Claims of confidentiality for the following information will be denied:

- (i) The name and address of any permit applicant or permittee;
- (ii) Permit applications, permits and any attachments thereto; and
- (iii) NPDES effluent data.

(x) Best Management Practices

The permittee shall adopt Best Management Practices (BMP) to control or abate the discharge of toxic pollutants and hazardous substances associated with or ancillary to the industrial manufacturing or treatment process and the Director may request the submission of a BMP plan where the Director determines that a permittee's practices may contribute significant amounts of such pollutants to waters of the State.

(y) Right of Appeal

Within thirty (30) days of receipt of notice of a final permit decision, the permittee or any interested person may submit a request to the Director for an adjudicatory hearing to reconsider or contest that decision. The request for a hearing must conform to the requirements of 250-RICR-150-10-1.50 of the RIPDES Regulations.

DEFINITIONS

1. For purposes of this permit, those definitions contained in the RIPDES Regulations and the Rhode Island Pretreatment Regulations shall apply.
2. The following abbreviations, when used, are defined below.

cu. M/day or M ³ /day	cubic meters per day
mg/l	milligrams per liter
ug/l	micrograms per liter
lbs/day	pounds per day
kg/day	kilograms per day
Temp. °C	temperature in degrees Centigrade
Temp. °F	temperature in degrees Fahrenheit
Turb.	turbidity measured by the Nephelometric Method (NTU)
TNFR or TSS	total nonfilterable residue or total suspended solids
DO	dissolved oxygen
BOD	five-day biochemical oxygen demand unless otherwise specified
TKN	total Kjeldahl nitrogen as nitrogen
Total N	total nitrogen
NH ₃ -N	ammonia nitrogen as nitrogen
Total P	total phosphorus
COD	chemical oxygen demand
TOC	total organic carbon
Surfactant	surface-active agent
pH	a measure of the hydrogen ion concentration
PCB	polychlorinated biphenyl
CFS	cubic feet per second
MGD	million gallons per day
Oil & Grease	Freon extractable material
Total Coliform	total coliform bacteria
Fecal Coliform	total fecal coliform bacteria
ml/l	milliliter(s) per liter
NO ₃ -N	nitrate nitrogen as nitrogen
NO ₂ -N	nitrite nitrogen as nitrogen
NO ₃ -NO ₂	combined nitrate and nitrite nitrogen as nitrogen
Cl ₂	total residual chlorine