

**RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES**

**STORMWATER PROPRIETARY TECHNOLOGY
APPLICATION FORM**

APPLICATION FOR:

Approval Renewal Change of Ownership

STORMWATER PROPRIETARY APPROVAL TYPE:

Water Quality Treatment Technology (Must meet RI Stormwater Manual Standard 3.2.3)
 Pre-Treatment Technology Retrofit Technology

APPLICANT:

MAILING ADDRESS (STREET)

(CITY/TOWN)

TECHNOLOGY NAME:

TELEPHONE NUMBER:

CONTACT PERSON:

EMAIL:

If applicant is not the manufacturer, indicate authority to distribute technology:

- The applicant has sole authority to distribute or authorize distribution of the subject technology in Rhode Island.
- The applicant does not have sole authority to distribute or authorize distribution of the subject technology in Rhode Island and has enclosed herewith a letter from the manufacturer authorizing the applicant to seek Stormwater Proprietary Technology approval.

I CERTIFY THAT THE INFORMATION ABOVE AND ATTACHED HERETO WAS PREPARED IN ACCORDANCE WITH THE PROCEDURES PRESCRIBED HEREIN AND THAT THE INFORMATION IS TRUE, ACCURATE AND COMPLETE.

SIGNATURE OF APPLICANT _____ DATE _____

TITLE _____

**** THIS APPLICATION IS TO BE USED TO APPLY FOR APPROVAL OF A PROPRIETARY STORMWATER TECHNOLOGY ONLY. IT IS NOT TO BE USED TO APPLY FOR A PERMIT TO INSTALL THE TECHNOLOGY AT A SITE.**

**APPLICATION FOR
STORMWATER PROPRIETARY TECHNOLOGY
CHECK LIST**

THE FOLLOWING ITEMS MUST BE INCLUDED WITH YOUR SUBMISSION:

- The complete application form.
- The STORMWATER PROPRIETARY TECHNOLOGY REPORT that includes all the information specified below in SUBMITTAL REQUIREMENTS.

Note: Carefully review submittal requirements.

ALL INCOMPLETE APPLICATIONS WILL BE RETURNED.

Send three (3) complete packages (including the application form and all data) to:

Rhode Island Department of Environmental Management
PERMIT APPLICATION CENTER
235 Promenade Street
Providence, RI 02908-5767

AND

Send two (2) complete packages (including the application form and all data) to:

Rhode Island Coastal Resources Management Council
c/o Jim Boyd, Coastal Policy Analyst
Stedman Government Center
4808 Tower Hill Road
Wakefield, RI 02879

Questions pertaining to the application process should be directed to Alisa Richardson, Office of Water Resources at (401) 222-4700 x7232 or alisa.richardson@dem.ri.gov.

**SUBMITTAL REQUIREMENTS FOR
STORMWATER PROPRIETARY TECHNOLOGY
APPLICATION**

PLEASE NOTE: Stormwater Proprietary Technologies in RI are classified as follows.

Water Quality (WQ) Treatment – meets RI Stormwater Manual WQ Standard 3.2.3 for 85% removal of total suspended solids (TSS), 60% removal of pathogens, 30% removal of total phosphorus (TP) for discharges to freshwaters and 30% removal of total nitrogen (TN) for discharges to tidal waters.

Pre-Treatment (PT) – Does not meet Standard 3.2.3, but meets at least a minimum removal of 25% TSS and may be used as a Retrofit technology or in combination with other WQ treatment BMPs. See RI Stormwater Manual Section 6.6

Retrofit (Retro) – Does not meet Standard 3.2.3, but may be permissible in cases where no other WQ BMP or technology that meets Standard 3.2.3 can be sited and some level of WQ treatment is desirable for end of road or when other highly constrained conditions are present at the site.

Answer all the following questions within your Stormwater Proprietary Technology Report. Your answers must be in the sequence presented below. Applications submitted with incomplete answers will be returned. If a question does not require a response, please write in "NOT APPLICABLE" and a justification as to why no response is required.

I. Application Information

- A. Applicant name:
 - 1. Address:
 - 2. Telephone:
 - 3. Email:
- B. Contact person: email, telephone and fax numbers:

II. Technology Information

- A. Technology trade name and/or model number(s).
- B. Description of the theory behind proposed technology.
- C. Statement of Claim (if applicable) – state the water quality treatment performance and/or percent pollutant reductions you claim this technology can consistently achieve.
- D. Proof of Claim – TAPE or TARP approval letters and supporting information
- E. What classification (WQ, PT or Retro) are you applying for and give

justification as to why the technology belongs in the requested class.

III. Approval/Denial History

- A. TAPE or TARP approvals (Include copies of all approved letters, conditions, restrictions, and contact person).
- B. Denials from any jurisdiction: (Include copies of all denial letters, reasons for denial and contact person).
- C. Stormwater Proprietary Technologies that do not have TAPE or TARP approvals
 - 1. If the technology does not have TAPE or TARP approval then you must submit the information requirements for the RI Technology Assessment Protocol (TAP) in Appendix J of the RI Stormwater Manual

IV. Performance Data from TAPE or TARP

- A. What level of water quality treatment are you trying to achieve by use of the technology?
- B. Data to support applicant's claims:
 - 1. Number and locations of installations tested.
 - 2. Duration of tests.
 - 3. Condition of tests.
 - 4. Persons, research entities, private companies, or governmental agencies that collected, analyzed or evaluated samples or results. (Third party testing is highly desirable such as TAPE or TARP).

Note: If there is more than one model of this technology, please label the performance data to indicate which model was used for each test.

V. Design Criteria

- A. Design and materials of the proposed technology.
- B. Information on structural, electrical and mechanical components.
- C. Specify design criteria in consideration of Rhode Island storm events
- D. Design restrictions or limitations.
- E. Typical design plans and cross sections.
- F. Other.

VI. Installation Criteria

- A. Construction restrictions or limitations.
- B. Aesthetics or appearance considerations.

VII. Operation and maintenance/cost/monitoring requirements.

- A. Operation and Maintenance Plan
 - 1. Details of the required operation and maintenance/inspection procedures.
 - a. Applicant's recommended frequency for maintenance.
 - b. Extent of required maintenance.
 - c. Technical qualifications for required operation and maintenance personnel.
 - 2. Availability of parts/system components in the case of failure or routine maintenance.
 - 3. Long term reliability and life expectancy of individual components and the entire system.
 - 4. Describe any warranties or guarantees.
- B. Cost Analysis (Complete breakdown)
 - 1. Design cost estimates.
 - 2. Typical construction/installation cost estimates.
 - 3. Operation and maintenance cost estimates, including chemicals, labor, and routine maintenance.
 - 4. Energy cost estimates, if applicable. (i.e. annual electric bill, etc.)

VIII. Failure History

- A. Report any failures to date.
- B. Cause of failure and how determined.
- C. Correction/System modifications undertaken to remedy failures.

IX. Draft Guidance Document Format

- A. Introduction
- B. Table of Contents
- C. Applicant information
- D. Technology information
- E. Summary/Description
- F. Terms and Definitions
- G. Design Criteria
- H. Installation Criteria
- I. Operations and maintenance/cost/monitoring requirements
- J. Training/qualifications
- K. Details
- L. Appendix