



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

Division of Watershed Management
Office of the Director
401 E. State Street, P.O. Box 418
Trenton, NJ 08625-0418
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JON S. CORZINE
Governor

LISA P. JACKSON
Commissioner

September 5, 2008

COPY

Tom Pank
Baysaver Technologies, Inc.
1302 Rising Ridge Road Unit 1
Mount Airy, MD 21771

Re: Reinstatement of Conditional Interim Certification
BaySeparator by BaySaver Technologies, Inc.

Issuance Date:
Expiration Date:

Dear Mr. Pank:

The Stormwater Management rules under N.J.A.C. 7:8-5.5(b) and 5.7(c) allow the use of manufactured treatment devices (MTDs) for compliance with the design and performance standards at N.J.A.C. 7:8-5 if the pollutant removal rates have been verified by New Jersey Corporation for Advanced Technology (NJCAT) and have been certified by the New Jersey Department of Environmental Protection (NJDEP). BaySaver Technologies, Inc. has requested reinstatement of the Conditional Interim Certification for the BaySeparator System.

The BaySaver BaySeparator System is comprised of a primary manhole, a storage manhole and a BaySeparator unit as shown in Figure 1 below. NJCAT's verified claim states that "The BaySaver Separator Model 1K provides 51% Suspended Sediment Concentration (SSC) removal efficiency (as per NJDEP – treatment efficiency calculation methodology) for laboratory simulated stormwater runoff with an average influent concentration of 205 mg/L and average d₅₀ particle size of 85 microns."

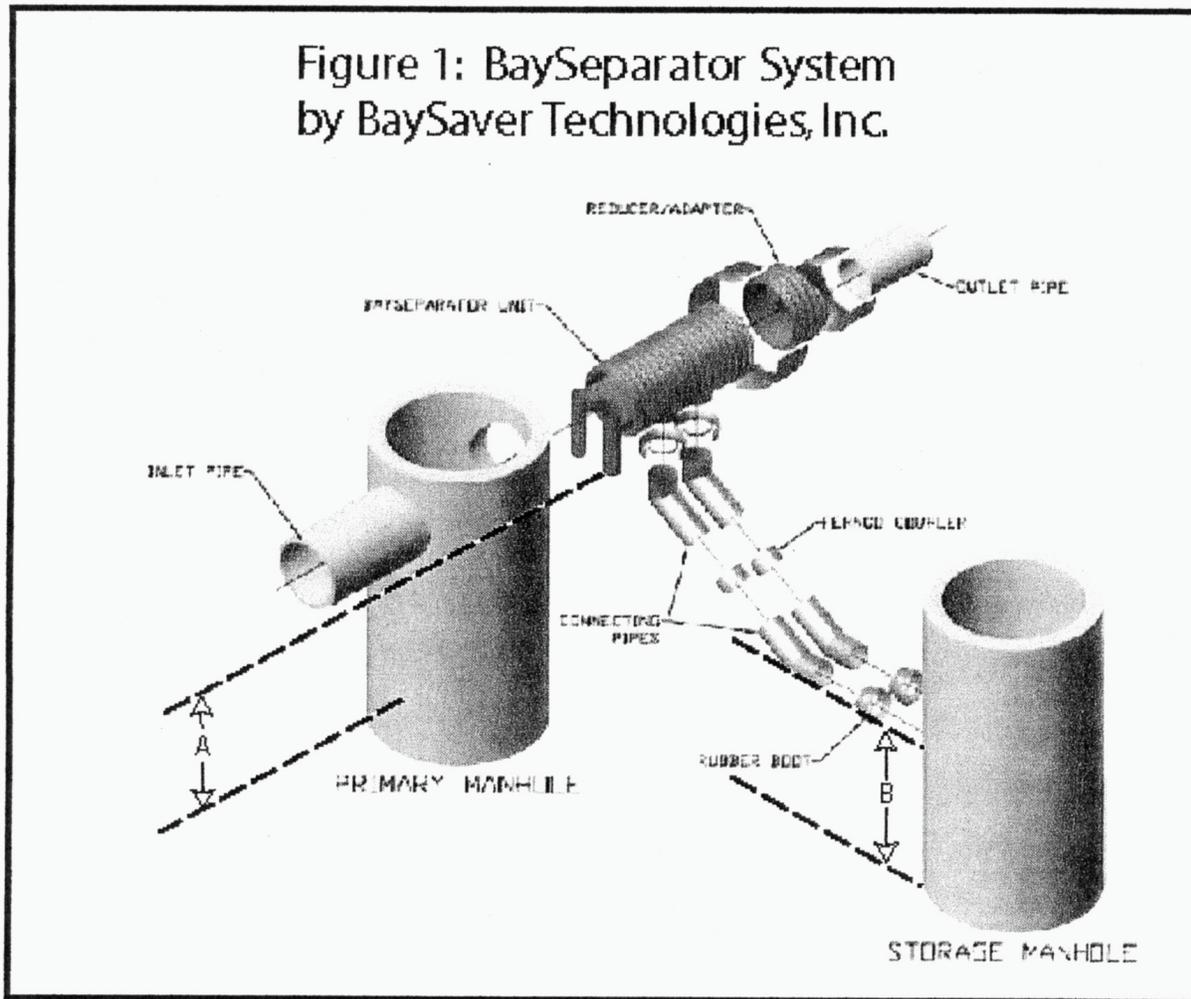
The NJDEP certifies the use of the BaySaver BaySeparator System at a TSS removal rate of 50%, subject to the following conditions:

1. The various models and associated water quality flow capacities shall be sized for the peak flow of the New Jersey water quality design storm per N.J.A.C. 7:8-5, as shown in Table 1.

Table 1: BaySeparator System Sizing Parameters and Dimensions

BaySaver Model	Peak Flow for WQ Storm in cfs	BaySaver Manhole Depth in feet	Manhole Diameter in inches	BaySeparator Diameter (feet)	T-Pipe Invert Above Floor in feet ("A" in Figure 1)	Connector Pipe Invert Above Floor in feet ("B" in Figure 1)
½ K	0.8	6	60	2	3	3
1 K	1.1	8	60	2	4	4
3 K	3.3	8	72	3	4	4
5 K	6.8	8	96	4	4	4
10 K	12.3	8	144	5	4	4

- The BaySeparator is certified as an off-line system only. Any flow above the New Jersey water quality design storm must be bypassed around the system.
- A hydrodynamic separator, such as the BaySeparator, cannot be used in series with another hydrodynamic separator to achieve an enhanced removal rate for total suspended solids (TSS) removal under N.J.A.C. 7:8-5.5.



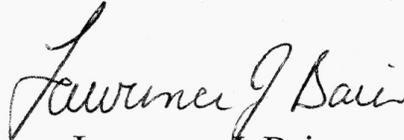
4. The maintenance plan for sites using this device shall incorporate, at a minimum, the maintenance requirements for the BaySeparator System shown in Appendix A below.

This letter reinstates BaySeparator by Baysaver for a period of two years unless a written extension has been issued by the Department. An additional extension of the interim certification will be considered by the Department only after the final field testing data has been received.

Additional information regarding the implementation of the Stormwater Management rules N.J.A.C. 7:8 are available at www.njstormwater.org.

If you have any questions regarding the above information, please contact Sandra Blick of my office at (609) 633-1441.

Sincerely,



Lawrence J. Baier
Director

c: Rhea Weinberg Brekke, NJCAT
Tom Micai, NJDEP
Mary Beth Brenner, NJDEP

Appendix A: Maintenance Requirements for BaySeparator by BaySaver Technologies, Inc.

Effective performance of stormwater management best management practices requires regular and proper maintenance. Chapter 8 of the New Jersey Stormwater Best Management Practices Manual and N.J.A.C. 7:8-5.8 of the Stormwater Management rules provides additional information and requirements for preparing a maintenance plan for stormwater management facilities. Specific maintenance requirements for the BaySeparator manufactured treatment device by BaySaver Technologies are presented below. These requirements must be included in the stormwater management system's maintenance plan in order to achieve the TSS removal rate associated with this manufactured treatment device.

A. General Maintenance

Any and all stormwater management system components expected to receive and/or trap debris and sediment must be inspected for clogging and excessive debris, sediment, and oil accumulation at least four times annually as well as after every storm exceeding 1 inch of rainfall. Such components may include bottoms, trash racks, low flow channels, outlet structures, riprap or gabion aprons, and cleanouts. Disposal of debris, trash, sediment, and other waste material should be done at suitable disposal/recycling sites and in compliance with all applicable local, state, and federal waste regulations.

All maintenance plans must indicate the depth at which sediment must be removed for each MTD specified based on the model designation. At a minimum, removal of sediment, trash and/or oil must take place at or before half the available storage depth below each outlet pipe (shown as A and B of Figure 1 above) is lost for either manhole. For example, in model ½ K, A & B are both at three (3) feet; therefore, sediment, trash, and/or oil must be removed at or before it reaches 1.5 feet in either manhole.

B. Equipment and Training Requirements

Inspection and removal of oil, trash and debris can be performed from the surface through 30-in manhole covers associated with the primary and storage manholes. Equipment to be used for the removal of sediment must be specified by the design engineer in the maintenance plan. For components where direct visual access is not possible, the maintenance plan must specify the equipment, procedures and training necessary to inspect parts in such areas.

C. Structural Components

All structural components must be inspected for cracking, subsidence, spalling, erosion, and deterioration at least annually.

D. Replacement Parts

Certain components of this device are only available through the manufacturer in order to achieve the TSS removal certified by the Department. The following components of the BaySeparator System must be purchased from BaySaver Technologies: BaySeparator unit, reducer adapters and connecting pipes.



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October 17, 2008

Tom Pank
Baysaver Technologies, Inc.
1302 Rising Ridge Road Unit 1
Mount Airy, MD 21771

Re: Reinstatement of Conditional Interim Certification
BaySeparator by BaySaver Technologies, Inc.

Issuance Date: September 5, 2008
Expiration Date: September 5, 2010

Dear Mr. Pank:

This is in reference to the conditional interim certification cited above. Due to a typographical error, the expiration date of the original letter was not specifically indicated. The expiration date is September 5, 2010, as shown above.

Please note that this letter does not modify any of the conditions listed on the reinstatement document.

Please attach this letter to your copy of the reinstatement of the conditional interim certification. If you have any questions regarding the above information, please contact Sandra Blick of my office at (609) 633-1441.

Sincerely,

Lawrence J. Baier
Director

Enclosure

c: Rhea Weinberg Brekke, NJCAT
Tom Micai, NJDEP
Mary Beth Brenner, NJDEP

NJDEP Interim Certification: BaySeparator by BaySaver

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