



May 11, 2009

BAYSAVER TECHNOLOGIES, INC.
BRAD GIANOTTI
1302 RISING RIDGE RD
MONT AIRY MD 21771

Re: Description: STORMWATER TREATMENT DEVICE
Manufacturer: BAYSAVER TECHNOLOGIES, INC.
Product Name: BAYSAVER SEPARATION SYSTEM
Model Number(s): 3K
STORMWATER TREATMENT DEVICE-HYDRONAMIC SEPARATOR
[consisting of two standard precast manholes, a Baysaver separation unit constructed of
HDPE, Fernco couplers, MarMac polyseal couplers, connection piping and HDPE
reducer/adaptor]
Product File No: 20090190

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters Comm 82 through 84, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. **This approval is valid until the end of May 2014.**

This approval is contingent upon compliance with the following stipulation(s):

- Prior to installation of this product, plans and specifications must be submitted to the department or to an approved agent municipality for review and approval in accordance with s. Comm 82.20 (1) of the Wis. Admin. Code. Written approval for the plans and specifications shall be obtained prior to installation of the product.
- This product is approved for the following use:
-- Stormwater and clearwater treatment for uses so listed in Table Comm 82.70-1, for subsurface infiltration.
- When this product is installed, the installation must be in accordance with the manufacturer's printed design installation instructions Baysaver Technical & Design Manual, (March 2004), ch. Comm 82, plan approval under s. Comm 82.20, and any product approval stipulations. When there is a conflict between manufacturer's installation instructions and plan approval conditions or product approval stipulations, the plan approval conditions or product approval stipulations will take precedence.
- Inspection and maintenance of this product must be performed at intervals specified by the manufacturer as listed in Baysaver Technical & Design Manual, (March 2004), or in accordance with plan approval or s. Comm 82.21, whichever is more restrictive.
- All manholes shall be grouted and sealed as per manufacturer's recommendations and tested for water tightness prior to operation.

- This product has a permanent embossment that is located on the top of the bypass plate identifying the manufacturer, the city of manufacture, the year manufactured, the applicable model number and a manufacturer's unit number.

An example of the coding sequence is as follows: M05**703F

Where:

M = city of manufacture, Mount Airy

05 = year of manufacture, 2005

** = model number of separation unit, i.e., .5 = 1/2K, 01 = 1K, 03 = 3K, 05 = 5K, 10 = 10K

703F = the manufacturer's unit number

- The review undertaken by Commerce staff does not include review and/or approval of this submittal as meeting DNR specifications for ch. NR 151.
- Any plumbing plans that include this device(s) and submitted to Commerce shall be accompanied by an acceptable modeling method, such as outlined in Method for Predicting the Efficiency of Proprietary Storm Water Sedimentation Devices (1006) for the specific site where the installation of this device(s) is planned. The submitted calculations, based on site-specific inputs, shall predict the removal efficiencies by concentration and percentage. For particle size distribution, in SLAMM use file: NURP.cpz. For a copy of this standard, see: http://dnr.wi.gov/runoff/pdf/stormwater/techstds/prop_devices_std_v2_051408.pdf
- Any plumbing plans that include this device(s) and submitted to Commerce shall be accompanied by an acceptable modeling analysis for the specific site where the installation of this device(s) is planned. The submitted calculations, based on site-specific inputs, shall predict the removal efficiencies by concentration and percentage for both TSS and O&G. For particle size distribution, use the EPA-NURP (National Urban Runoff Program) distribution.

Table 1
 Baysaver Separation System
 Sizing Specifications

Unit	Max. Treatment Flow (cfs/gpm)	Peak Design Flow (cfs/gpm)	Manhole * Diameter (in)
3 K	7.8/3498.4	30/13455	60

- Inspection and Maintenance: Typically the system requires cleaning every 12 months. The system must be cleaned when the sediment depth in either manhole measures 2 feet (0.6 meters) or when visual inspections indicates a large accumulation of debris and oil. [See also Baysaver Separator technical and Design Manual, March 2005.]

Table 2
 BaySaver Separation System
 Manhole Storage Capacities-- 3K

BaySaver Separation System Size	Total System Capacity Gallons / (ft³)	Sediment Capacity Yards³ / (ft³)	Floatable Capacity Gallons / (ft³)
60 x 60	2348 / (314)	2.90 / (78)	441 / (59)
60 x 72	2865 / (383)	3.56 / (96)	539 / (72)
60 x 84	3478 / (465)	4.30 / (116)	651 / (87)

- ATTACHMENT A: See attachment A for cross section of 2-compartment tank.
- Additional information is included as attachment(s) to this letter; see attachment A and B.

BAYSAVER TECHNOLOGIES, INC.
Page 3
May 11, 2009
PRODUCT FILE NO. 20090190 PREV. 20050102

This approval supersedes the approval issued on 4/28/2005 under product file number 20050102.

This approval letter shall be incorporated with your previously approved plans and/or specifications approved under product file number 20050102.

APPROVAL REVISITED WHEN OTHER BAYSAVER SEPARATORS SUBMITTED UNDER CURRENT CODE REQUIREMENTS.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,

Jean M. MacCubbin, CST
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Commerce; Safety & Buildings Div.
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