State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
401-02B
Bureau of Nonpoint Pollution Control
Division of Water Quality
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CHRIS CHRISTIE
*Governor*

KIM GUADAGNO
*Lt. Governor*

BOB MARTIN
*Commissioner*

August 31, 2011

Dino Pezzimenti
Environment 21, LLC
8713 Read Road, PO Box 55
East Pembroke, NY 14056-0055

Re: MTD Laboratory Test Certification for the V2B1 by Environment 21, LLC

**Effective Date: September 1, 2011**
**Expiration Date: September 1, 2013**
**TSS Removal Rate: 50%**

Dear Mr. Pezzimenti:

The Stormwater Management Rules at N.J.A.C. 7:8 allow the use of manufactured treatment devices (MTDs) for compliance with the design and performance standards provided that the pollutant removal rates have been verified by New Jersey Corporation for Advanced Technology, NJCAT, and certified by the New Jersey Department of Environmental Protection (NJDEP).

The certification process was revised through the "Transition for Manufactured Treatment Devices," dated July 15, 2011. NJDEP has determined that V2B1 by Environmental 21, LLC is consistent with the criteria under *A. Manufactured Treatment Devices with Interim Certifications*. Therefore, **NJDEP certifies the use of the V2B1 by Environmental 21, LLC with a 50% TSS removal rate, provided that the project design is consistent with the following conditions:**

1. The model selected for the project design must be sized in accordance with Table 1 and based on the peak flow of the New Jersey Water Quality Design Storm as specified in N.J.A.C. 7:8-5.

2. The V2B1 can only be used off-line. Any flow above the New Jersey Water Quality Design Storm must utilize an external bypass around the system.

3. A hydrodynamic separator, such as the V2B1, 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 the sites using this device shall incorporate at a minimum, the maintenance requirements for the V2B1, attached.

**Table 1**

| V2B1® Model Number[a] | M1 Diameter (ft) | M2 Diameter (ft) | Minimum Depth Below Invert (ft) | Treatment Rate (cfs) | Maximum Inlet Pipe Diameter (in) |
|---|---|---|---|---|---|
| 2 | 4 | 4 | 3.5 | 0.51 | 12 |
| 3 | 4 | 5 | 3.5 | 0.66 | 16 |
| 4 | 5 | 5 | 5.5 | 0.80 | 21 |
| 6 | 6 | 5 | 4.5 | 0.98 | 24 |
| 7 | 6 | 6 | 4.5 | 1.15 | 24 |
| 8 | 7 | 6 | 4.5 | 1.36 | 30 |
| 9 | 7 | 5 | 4.5 | 1.18 | 30 |
| 10 | 8 | 5 | 4.5 | 1.42 | 36 |
| 11 | 8 | 6 | 4.5 | 1.60 | 36 |
| 12 | 8 | 7 | 4.5 | 1.81 | 36 |
| 13 | 8 | 8 | 5.0 | 2.05 | 36 |
| 14 | 10 | 5 | 5.0 | 2.00 | 42 |
| 15 | 10 | 6 | 5.0 | 2.18 | 42 |
| 16 | 10 | 7 | 5.0 | 2.38 | 42 |
| 17 | 10 | 8 | 5.0 | 2.62 | 42 |
| 18 | 10 | 10 | 5.5 | 3.20 | 42 |
| 19 | 12 | 5 | 5.0 | 2.70 | 48 |
| 20 | 12 | 6 | 5.0 | 2.88 | 48 |
| 21 | 12 | 7 | 5.5 | 3.09 | 48 |
| 22 | 12 | 10 | 5.5 | 3.90 | 48 |
| 25 | 12 | 8 | 5.5 | 3.33 | 48 |
| 50 | 16 | 10 | 6.0 | 5.70 | 72 |
| 60 | 20 | 10 | 6.0 | 8.00 | 80 |

Note: [a] Above models are based on standard precast product availability. System design allows for flows higher than the treatment rate to be bypassed. Custom designs may be provided for cast-in-place applications or alternative precast sizes.

In addition to the attached, any project with a Stormwater BMP subject to the Stormwater Management Rules, N.J.A.C. 7:8, must include a detailed maintenance plan. The detailed maintenance plan must include all of the items identified in Stormwater Management Rules, N.J.A.C. 7:8-5.8. Such items include, but are not limited to, the list of inspection and maintenance equipment and tools, specific corrective and preventative maintenance tasks, indication of problems in the system, and training of maintenance personnel. Additional information can be found in Chapter 8: Maintenance of the New Jersey Stormwater Best Management Manual.

NJDEP anticipates proposing further adjustments to this process through the readoption of the Stormwater Management Rules. 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 Ms. Sandra Blick of my office at (609) 633-7021.

Sincerely,

Ed Frankel, P.P., Acting Bureau Chief
Bureau of Nonpoint Pollution Control

C: Richard S. Magee, NJCAT
Chron file