



September 12, 2013

ESD WASTE2WATER INCORPORATED  
SALES AND MARKETING  
JASON SHADE  
495 OAK ROAD  
OCALA FL 34472

Re: Description: REUSE SYSTEM - GRAYWATER  
Manufacturer: ESD WASTE2WATER INCORPORATED  
Product Name: ESD BIOLOGICAL TREATMENT SYSTEMS  
Model Number(s): 750, 850, 1500, 4000 AND 5000  
Product File No: 20130238

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters SPS 382 through 384, 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 September 2018.

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

- A plumbing plan must be submitted and approved prior to each proposed installation in accordance with DSS 382.20 (1) (a) 2. A Plumbing Plan Review must be successfully completed prior to each proposed installation. A minimum of four sets of completed plans and specifications, signed by a Wisconsin registered Architect, Designer, Engineer or licensed Master Plumber shall be submitted along with the following specific information:
  - a. A "Plumbing Plan Review Application" (i.e. SBD-6154) and required fee;
  - b. A scaled plot plan;
  - c. A scaled floor plan;
  - d. A drain, waste and vent system (i.e. DWV) isometric drawing for the engineered blackwater/graywater system;
  - e. A non-potable water system isometric drawing;
  - f. A potable water system isometric drawing;
  - g. A maintenance manual addressing all serviceable components or systems;
  - h. A written contingency plan; and
  - i. Water calculation worksheets:
    - 1. The complete non-potable water system; and
    - 2. The complete potable water system
  - j. A copy of this approval letter

For system installations that include irrigation and/or infiltration, the following information must also be provided:

- k. The soil type; and
- l. Infiltration rate

After the plan review process is complete, and the installation is finished, the State Plumbing Consultant assigned to the county in which the installation is located, shall inspect the completed installation. The final installation shall be completed and passed before the system is put into service.

Some of the information listed previously may not pertain to a specific installation.

- Monitoring of these systems shall be performed by licensed POWTS Maintainers, Master Plumbers or licensed Professional Engineers. The maintenance of these systems may be performed by an unlicensed individual.
- Any initial start-up water, or make-up water, added to these systems must be supplied from a NR 811 or NR 812 approved source.
- Any wastewater or waste materials (e.g. sludge, or scum) withdrawn from these systems must be disposed of in accordance with ch. NR 113.
- Installation and servicing of these systems must be performed in accordance with the manufacturer's written instructions and this approval letter. A copy of the manufacturer's installation and servicing instructions, and a copy of this approval letter, must be given to the owner of each system and kept on site.
- All sumps, and their associated ejectors and pumps, shall conform to s. SPS 382.30 (10).
- The devices must have a conspicuous label, which is visible after installation, which displays the model number.
- The catch basin shall conform to s. SPS 382.34 (4) (a) 2.
- The trench drain leading to the catch basin shall conform to s. SPS 382.34 (4).
- The treated water rendered by this device shall be sampled on a biannual basis. The water samples shall be collected from the pressure tank, while the device is recirculating water, and be analyzed for the following specific parameters:
  1. pH;
  2. Biological Oxygen Demand - Five Day (BOD5);
  3. Total Suspended Solids (TSS); and
  4. Fecal Coliform per 100 ml

The results of these tests shall be provided to the Plumbing Consultant responsible for inspection of the final installation.

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,

Glen W. Schlueter  
Environmental Engineer - Plumbing Product Reviewer  
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Division of Industry Services  
Bureau of Technical Services  
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