

June 15, 2010

SLUDGEHAMMER GROUP LTD.
DR. DANIEL WICKMAN
336 S DIVISION RD
PETOSKEY MI 49770

Re: Description: CHEMICAL OR PHYSICAL RESTORATION FOR POWTS
Manufacturer: SLUDGEHAMMER GROUP LTD.
Product Name: SLUDGEHAMMER
Model Number(s): **S-46 AND S-86**
[SLUDGEHAMMER BLEND™ BACTERIA TO BE REPLACED ANNUALLY]
[S-46-- MAX. DWF 450 GALS./DAY DOMESTIC WASTEWATER; MAX. DAILY BOD5 OF 1.1 LBS.; INSTALLATION REQUIRES A MIN. 500 GAL. TANK; L.L. RANGE 36-72 IN.]
[S-86-- MAX. DWF 600 GALS./DAY DOMESTIC WASTEWATER; MAX. DAILY BOD5 OF 1.5 LBS.; INSTALLATION REQUIRES A MIN. 1,100 GAL. TANK; L.L. RANGE 36-72 IN.]
Product File No: 20100268

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 OCTOBER 2015.**

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

- Installation and servicing of this product must be in accordance with the manufacturer's instructions. A copy of the manufacturer's installation and servicing instructions must be given to the owner of the system.
- When this product receives wastewater from dwellings, it will produce an effluent quality with a maximum monthly average value for BOD5 of less than or equal to 30 mg/L, TSS of less than or equal to 30 mg/L TSS and F.O.G. of less than 30 mg/L.
- This product must be utilized in accordance with the manufacturer's printed installation instructions and this product approval. If there is a conflict between the manufacturer's installation instructions and the product approval, the product approval requirements will take precedence.
- A copy of this approval letter and the manufacturer's printed installation instructions must be supplied to the buyer of this product.
- The outlet baffle of the septic tank, which has this product installed, must have installed an effluent filter capable of filtering particles of 1/8 inch in size or larger.
- This product must be installed in sewage treatment or holding tanks which were approved at the time of existing installation and/or are currently approved for new/replacement installations by this department and meets the sizing requirements for this product use.

- This device must include permanent labeling; identified by manufacturer, model and serial number, riveted to the body of the device.
- When this product is installed in a POWTS component, it is considered a modification of the existing POWTS. A state sanitary permit must be obtained when this product is to be installed in a POWTS component. Installation of this product may necessitate evaluation and further modification of the POWTS where this product will be installed. Whichever reviewing agency (governmental unit or state) reviewed and approved the original POWTS plans, shall review the proposed modifications to the existing POWTS.
- A copy of this approval letter and the manufacturer's printed installation and maintenance instructions must be supplied to the buyer of this product and the property owner.
- The elevation of the system's dispersal component infiltrative surface must be above the estimated highest groundwater elevation or bedrock by the distance prescribed in column labeled "Fecal Coliform >10,000 cfu/100 mL" in Table Comm 83.44-3, Wis. Adm. Code.
- When this product is installed in a POWTS component, a properly credentialed/licensed person must perform the installation.
- This product is approved to be installed in existing and new Commerce-approved treatment tanks to rejuvenate failing soil dispersal areas. The product may be installed in single or two compartment tanks. Access must be provided for installation and servicing.
- **This product must be maintained at least annually, in that the SludgeHammer Blend bacterial additive must be replaced on an annual basis.**

This approval supersedes the approval issued on 7/2/2007 under product file number 20070326.

This approval letter shall be incorporated with your previously approved plans and/or specifications approved under product file number 20070326.

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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