

July 2, 2007 **APPROVAL LETTER REISSUED 03/07/2008 AND 11/18/2010.**

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

Re: Description: SEWAGE TREATMENT APPARATUS (Tier 3- downsizing & vertical separation credit)
Manufacturer: SLUDGEHAMMER GROUP LTD.
Product Name: SLUDGEHAMMER - AEROBIC BACTERIAL GENERATOR
Model Number(s): SLUDGEHAMMER S-46
[MAX. DWF 450 GPD]
Product File No: 20070325

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 July 2012.**

This approval supersedes the approval issued on 5/23/2006 under product file number 20050595.

This approval letter shall be incorporated with your previously approved plans and/or specifications approved under product file number 20050595.

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

- This product must be sized based on daily wastewater flow (gallons per day). The gallons per day value must be at least 150 gallons per day per bedroom.
- The maximum daily wastewater (DWF) flow which may discharge through this product is 450 gallons per day.
- 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 and fecal coliform of less than or equal to 10,000 cfu/100ml.
- 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.

- The Sludgehammer model S-46 must be installed in a tank or tanks that comply with the following:
 1. Tank volume of the compartment or tank which will house the treatment device must be at least 300 and no greater than 1000 gallons.
 2. Liquid level of the compartment or tank which will house the treatment device must be at least 38 inches and no greater than 72 inches.
 3. Distance that the treatment device must be horizontally away from the tank inlet or the outlet of the first or second compartment or tank must be at least 6 inches and no greater than 36 inches.
 4. The volume of the compartment or tank that does not house the treatment device must be at least 200 gallons and no greater than 1000 gallons.
 5. Liquid level of the compartment or tank that does not house the treatment device must be at least 38 inches and not greater than 72 inches.
 6. In tanks containing greater than two compartments, the above sizing requirements will refer only to the first and second compartments of such tanks.

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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