

July 23, 2010

CULLIGAN WATER OF RHINELANDER
KASS SCHOPPE
320 W PHILLIPS STREET
RHINELANDER WI 54501

NORTHWOODS ASSEMBLY OF GOD
TRUE NORTH CHILD CARE
JANET VANORDER
926 HIGHWAY 45 SOUTH
EAGLE RIVER WI 54521

Re: Description: SITE SPECIFIC WATER TREATMENT DEVICE
Manufacturer: NORTHWOODS ASSEMBLY OF GOD
Product Name: LOW PH MODIFICATION SYSTEM (COMMERCIAL/SITE SPECIFIC)
Model Number(s): 10-INCH CULLNEU FILTER (COMMERCIAL/SITE SPECIFIC)
Product File No: 20100314

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 2015.

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

- This product has undergone sufficient testing to document the product's ability to reduce only those contaminants and/or substances as specified in this approval letter when the product is installed and maintained in strict accordance with the manufacturer's published instructions.
- Where the Department of Natural Resources (DNR) has jurisdiction, a written approval may be required prior to installation of this product in a water supply system to reduce the concentration of a contaminant that exceeds the primary drinking water standards contained in ch. NR 809, Wis. Admin. Code, the enforcement standards contained in ch. NR 140, Wis. Admin. Code, or for a water supply system that is subject to a written advisory opinion by the DNR. For more information contact the DNR Section of Private Water Systems, P.O. Box 7921, Madison, WI 53707, telephone (608) 267-9787.
- If this approved device is modified or additional assertions of function or performance are made, then this approval shall be considered null and void, unless the change is submitted to the department for review and the approval is reaffirmed.
- This installation must undergo a final inspection prior to the device being put into service. The Plumbing Consultant having jurisdiction in this area is Don Oremus. Mr. Oremus can be contacted via the following:

Phone: 715-487-6123
Fax: 608-283-7452
E-mail: doremus@commerce.state.wi.us

When the final inspection has been completed, this department will notify the Wisconsin Department of Natural Resources (WDNR). The WDNR will then monitor the performance of the device(s) to its satisfaction. A suggested frequency and overall duration of monitoring is provided elsewhere in this letter.

If these devices are installed and put in service prior to obtaining a final inspection, then any pertinent approval for the site specific device is immediately rendered null and void and the device may be ordered removed.

- The suggested monitoring interval for this installation is monthly until a stable passivating layer had formed on the internal pipe surfaces which can be inferred from copper and lead concentrations dropping off to below detectable limits. As a minimum, the following tests should be performed:

1. alkalinity
2. lead
3. copper

The sampling should be "first draw" as is normally required under the EPA's Lead and Copper Rule.

- The media used within this device is sacrificial, meaning that it will gradually dissolve over time and require regular replenishment to maintain a stable passivating layer and the treatment to remain effective.
- This treatment method will not be immediately effective. It will take a significant amount of time for the passivating layer to form on the internal surfaces of the water supply system. Specifically note the following:
 1. Any copper piping that occurs prior to the treatment device (e.g. water service pipe), or that isn't regularly exposed to the treated water, will not be protected.
 2. The treated water must be conveyed to all sections of the water distribution system for the treatment to be fully effective.
 3. The treated water within the water distribution system must be replenished regularly so the concentration of alkalinity remains optimal and the formation of the passivating layer proceeds as rapidly as possible.
 4. The water from all outlets will not be safe to consume until the passivating layer has been established throughout the water distribution system. Until that time, an alternative source of water (e.g. bottled water) must be used, particularly for consumption.

Based on testing data submitted to and reviewed by the department, this approval recognizes that this plumbing product will reduce the concentration of contaminants as specified on pages 1 through 3 of this letter.

**10-INCH CULLNEU LOW pH MODIFICATION CAPABILITIES
PRODUCT FILE NUMBER 20100314
TABLE 1 OF 1**

Rated Service Flow and corresponding pressure loss: 15.1 lpm @ 4.0 psig (4.0 gpm @ 4.0 psig)

Capacity: 75,708 l (20,000 gals.)

Tested Contaminant	Influent Challenge
pH (low)	4.0 ± 0.5 pH units

Other Conditions: the contaminant reduction performance capabilities displayed for Table 1 of 1 were verified by testing conducted in accordance with WQA Standard S-200. To qualify for pH modification, the device must increase the influent challenge pHs' such that all effluent pHs' are ≥ 6.5 and ≤ 8.5.

≥ = greater than or equal to

± = plus or minus

≤ = less than or equal to

NORTHWOODS ASSEMBLY OF GOD
July 23rd, 2010
Page 3 of 3
Product File No.: 20100314

This device was tested under controlled laboratory, or field, conditions. The actual performance of this device for a specific end use installation will vary from the tested conditions based on local factors such as water pressure, water temperature and water chemistry.

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
Engineering Consultant-Plumbing Product Reviewer
Bureau of Integrated Services
Safety and Buildings Division
Department of Commerce
(608) 267-1401 **Phone**
(608) 267-9566 **Fax**
glen.schlueter@wi.gov **Email**
8:00AM – 4:30PM CDT **Work Hours**

GWS:gws

Cc: Don Oremus, DComm Plumbing Consultant
Paul Kozol, DNR