State of Wisconsin
Department of Natural Resources
PO Box 7921, Madison WI 53707-7921
dnr.wi.gov

Chloride Variance Application

Please find the mailing address for the DNR location nearest you by visiting our website http://dnr.wi.gov/Contact/SSbyCity.html.

Notice: Information requested is required for the Department to determine whether or not to grant a variance under the provisions of sections NR 106.80 through 106.96, Wis. Adm. Code. Failure to provide all of the requested information may result in denial of your application. Personal information collected will be used to administer the watershed program and may be provided to requesters as required by Wisconsin's Open Records law [ss. 19.31-19.39, Wis. Stats.]

Applicant Information

Company Name: Delafield-Hartland WPCC			Contact Name: Scott Luczak		
WPDES Permit No.: WI 0032026-07-0			Street Address: 416 Butler Drive		
Facility Name: Delafield-Hartland WPCC			City: Delafield	State: WI	ZIP Code: 53018
Street Address: 416 Butler Drive			Telephone Number (include area code): (262) 646-4364	FAX Number: (262) 646-5187	
City: Delafield	State: WI	ZIP Code: 53018	E-mail Address: sldelhart@centurytel.net		
Receiving Water: Bark River			Average Discharge Flow Rate: 3.23		

Capital Cost

Have you done a study to determine the capital cost of end-of-pipe chloride removal for your facility?

- ○ Yes - Please include the information with this worksheet or mail it with the signature portion of the permit application.
- ◉ No - Please complete this estimate of relative capital cost:

Chloride Removal Capital Cost:

$1.125 x Annual Average Design Flow (in MGD) X 1,000,000 = $3,633,750

Chloride Removal as a Percentage of Annual Capital Cost:

$\frac{\text{Chloride Removal Capital Cost } \textit{(from above)}}{\text{Capital Cost of Current Wastewater Facility}}$ X 100 = 11.28 %

Operational (O&M) Cost Based on the Cost Estimate

Have you done a study to determine the annual O & M cost of end-of-pipe chloride removal for your facility?

- ○ Yes - Please include the information with this worksheet or mail it with the signature portion of the permit application.
- ◉ No - Please complete this estimate of relative O&M cost:

Chloride Removal O&M Cost:

($1.00 x Annual Average Design Flow (in MGD) x 1000 x 365) = $1,178,950

Chloride Removal as a Percentage of Annual O&M Cost:

$\frac{\text{Chloride Removal O\&M Cost } \textit{(from above)}}{\text{O\&M Costs of Current Wastewater Facility}}$ X 100 = 71.1 %

Treatment Facility Information

Do you know of a facility that could accept the concentrated brine solution that would result from end-of-pipe chloride treatment? ○ Yes / ◉ No

If yes, Name of Facility _____

The information in the following questions is requested to assist the permittee and the Department in determining appropriate effluent values or limitations, compliance schedules and source reduction measures.

Sample Information

Have you sampled at least eleven effluent samples for chloride over the course of at least a year? ◉ Yes / ○ No

For Municipalities Only	Yes	No
a) Have you identified industrial contributors of chloride to your sewer system?	◉	○
b) Have you requested voluntary reductions of chloride from any industrial users to your sewer system?	◉	○
c) Have you instituted sewer use ordinances regulating or limiting the discharge of chloride from significant industrial users?	◉	○
d) Does your community have centralized softening of source water through a water utility?	○	◉
e) Have you determined typical concentrations of chloride from domestic users of your sewer system?	◉	○
f) Does your community implement a public information program on proper maintenance and improved efficiency of residential softeners?	○	◉
g) Have you implemented local ordinances to mandate the use of efficient softeners?	○	◉

For Industry Only	Yes	No
a) Is privately softened water, use of brine, or use of salt integral to your production process?	○	○
b) Do you operate a private softener for your industrial process?	○	○
c) Have you optimized operation of your water softener (adjustment of regeneration interval, salt dosage, replacement of backwash controller)?	○	○
d) Have you determined which industrial processes can be run without softened water?	○	○
e) Have you implemented practices to reduce or reuse any brine solutions or softened water in your industrial process?	○	○
f) Have you implemented housekeeping practices to reduce spillage of any brine solutions, or to minimize the contribution of salt to the wastewater treatment system?	○	○

Please list any contributors to the POTW in the following categories: (For industrial permittees, skip to the certification section.)

Food processors (cheese, vegetables, meat, pickles, soy sauce, etc.)
N/A

Metal Plating/Metal Finishing
N/A

Car Washes
Soft Touch Car Wash & Detail, 2325 Sun Valley Drive, Delafield, WI 53018
Nautilus Car Wash, 700 Hartbrook Drive, Hartland, WI 53029
Auto Wash, 400 Industrial Drive, Hartland, WI 53029

Municipal Maintenance Sheds (salt storage, truck washing, etc.)
All five of our municipalities have salt storage facilities.
City of Delafield, Village of Hartland, The Town of Delafield, and maybe the Village of Summit have truck wash bays.

Laundromats
Sun Laundry, 515 Cottonwood, Hartland, WI 53029

Other presumed commercial or industrial chloride contributors to the POTW
Triad Industries closed in 2011, the business was sold at auction to Medline Inc. that will start up production in the first quarter of 2015.

Additional Information or Comments
The staff at Delhart try to educate the public about chlorides and softeners. I have an educational article on our website and when talking with the public, I stress the point about on demand softeners.

The Village of Hartland has municipal water but they do not soften, it is up to the property owner to do so.

The City of Delafield only has municipal water for commercial properties in the "83 & 94" corridor. The rest of the City are on private wells.

The Village of Nashotah, Town of Delafield, and Village of Summit have private wells.

It is up to all of the property owners in the Delhart service area to soften their water.

The City of Delafield and Village of Hartland do pre-wet during the winter months.

Certification

Based on the information provided, I believe that attainment of the applicable water quality standards for chloride may cause substantial and widespread adverse social and economic impacts in the area where this discharge is located. I understand that, as a condition of the variance, the Department and the permittee will need to agree upon an interim effluent limitation, a target value or target limitation, and a compliance schedule to implement source reduction. I understand that these conditions will be included in the WPDES permit issued to this facility. I certify that the information provided is true, accurate and complete.

Individual Submitting Request (Individual must be an Authorized Representative)	Title
Scott Luczak	General Manager

Signature of Official Scott Luczak Date Signed 9-4-14