



DIVISION OF INDUSTRY SERVICES
 PO BOX 7162
 MADISON WI 53707-7162
 Contact Through Relay
<http://dsps.wi.gov/programs/industry-services>
www.wisconsin.gov

Scott Walker, Governor
 Dave Ross, Secretary

July 16, 2015

CUST ID No. 1081479

ATTN: Plumbing Inspector

JAY OESTREICH
 EXCEL ENGINEERING
 100 CAMELOT DR
 FOND DU LAC WI 54935

MUNICIPAL CLERK
 TOWN OF CHILTON
 N5819 COUNTY RD BB
 HILBERT WI 54129

**CONDITIONAL APPROVAL
 PLAN APPROVAL EXPIRES: 07/16/2017**

| Identification Numbers |
|--|
| Transaction ID No. 2567744 |
| Site ID No. 780797 |
| Please refer to both identification numbers, above, in all correspondence with the agency. |

SITE:

Foremost Farms
 W3286 Cty Hwy F
 Town of Chilton
 Calumet County

FOR:

Facility: 723504 FOREMOST FARMS
 W3286 CTY HWY F
 Plan Type: Addition-Alteration; 1 Interior Fixture(s)

Object Type: Commercial Water Treatment Device Regulated Object ID No.: 1544269

The submittal described above has been reviewed for conformance with applicable Wisconsin Administrative Codes and Wisconsin Statutes. The submittal has been **CONDITIONALLY APPROVED**. The owner, as defined in chapter 101.01(10), Wisconsin Statutes, is responsible for compliance with all code requirements.

No person may engage in or work at plumbing in the state unless licensed to do so by the Department per s.145.06, stats.

The following conditions shall be met during construction or installation and prior to occupancy or use:

- This liquid chlorination system (i.e. sodium hypochlorite) was sized to provide 4 log (i.e. 99.99%) virus reduction in accordance with s. NR 810.53 at 10° C. The required minimum CT value is 6; the design of this system provides a CT value of 7.95.
- The chemical feed pump used shall be the Grundfos DDA 7.5-16 AR-PVC/E/C-F-31 | 003BG, MODEL A9772236610000205P11336.
- The sodium hypochlorite solution injected shall be NSF 60 listed Ecolab XY12 (8.4% NaClO):
<http://info.nsf.org/Certified/PwsChemicals/Listings.asp?CompanyName=&TradeName=xy-12&ChemicalName=&ProductFunction=&PlantState=&PlantCountry=&PlantRegion=>
- This installation shall undergo a final inspection prior to the system be put into serviced. The Plumbing Consultant having jurisdiction in this area is Phil Mnuk. Mr. Mnuk can be contacted via the following:

Phone: 262-354-5167

E-mail: phil.mnuk@wisconsin.gov

- When the final inspection has been successfully completed, the department shall notify the Wisconsin department of Natural Resources (WDNR). The WDNR shall then monitor the performance of this system to its satisfaction. A suggested frequency and overall duration of monitoring is provided elsewhere in this letter, which the WDNR is free to accept or reject. The WDNR staff person having jurisdiction in this area is Mike Hanaway. Mr. Hanaway can be contacted via the following:

Phone: 920-755-4987

E-mail: Michael.hanaway@wisconsin.gov

- If this system is put into consumptive service prior to passing a final inspection by DSPS, then any pertinent approval for this site specific system is immediately rendered null and void and the system may be ordered removed.
- The suggested monitoring interval for this system is daily. As a minimum, the following tests should be performed:
 1. Free chlorine residual
The sample should be collected from the site most remote from the point of chemical as injection as possible.
- Any persistent zones of stagnation (i.e. dead legs) within this water supply system must be flushed with chlorinated water at regular intervals sufficient to maintain a detectable free chlorine residual. It's advisable, but not required, to limit any dead legs to maximum length of 2 times the pipe diameter.
- All piping shall be labeled in accordance with SPS Table 382.40-1a.
- The installation shall be performed by a properly licensed Wisconsin plumber.
- No bypass piping shall be installed serving the chlorination system. If a bypass is strongly desired, then it shall be of the locking type.
- Complete owner's manuals, installation and maintenance instructions for all major components of this chlorination system shall be provided to the system owner.
- The ongoing service and maintenance of this system shall be performed by Excel Engineering, 920-926-9800.

A full size copy of the approved plans, specifications and this letter shall be on-site during construction and open to inspection by authorized representatives of the Department, which may include local inspectors. If plan index sheets were submitted in lieu of additional full plan sets, a copy of this approval letter and index sheet shall be attached to plans that correspond with the copy on file with the Department. If these plans were submitted in an electronic form, the designer is responsible to download, print, and bind the full size set of plans along with our approval letter. A department electronic stamp and signature shall be on the plans which are used at the job site for construction. All permits required by the state or the local municipality shall be obtained prior to commencement of construction/installation/operation.

In granting this approval the Division of Industry Services reserves the right to require changes or additions should conditions arise making them necessary for code compliance. As per state stats 101.12(2), nothing in this review shall relieve the designer of the responsibility for designing a safe building, structure, or component.

Inquiries concerning this correspondence may be made to me at the telephone number listed below, or at the address on this letterhead.

Sincerely,



Glen W Schlueter
 Plumbing Product Reviewer , Division of Industry Services
 (608)267-1401 , Monday-Thursday 7:00AM-4:00PM CDT
 Fridays 8:00AM-12:00PM CDT
glen.schlueter@wisconsin.gov

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| Fee Required \$ 160.00 This Amount Will Be Invoiced, When You Receive That Invoice, Please Include a Copy With Your Payment Submittal. WiSMART code: 7657 |
|--|

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cc: Philip Lawson Mnuk, Plumbing Consultant, (262) 354-5167 , M-T 6:00AM-3:30PM -FRI-6:00AM -10:00AM
Lisa Dickmann, Excel Engineering Inc
Foremost Farms USA

Note: Effective January 1, 2012, all codes under the jurisdiction of the Division of Industry Services (formerly Safety & Buildings) will be modified. Code references with prefixes starting with "Comm" have been replaced with "SPS" to recognize the relocation of the Division of Industry Services from the former Department of Commerce to the Department of Safety & Professional Services. Additionally, all IS (formerly S&B) codes have been renumbered and addressed in a "300" series. For future reference, the Wisconsin Commercial Building Code will be addressed by SPS Chapters 360-366.

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32698577
Type DDA 7.5-16 AR-PVC/E/C-F-311003BG
U100-240V~ 50/60 Hz I_{max} A
Model A9772236610000205P11336

| | | |
|------------------|---------|---------|
| P _{max} | 24 W | IP 65 |
| Q | 7.5 l/h | 2,0 gph |
| P | 10 Bar | 150 psi |

Assembled in US



GRUNDFOS



SERIAL NO.

SPG-34612

DATE

OCT 2002

CAPACITY

400000GALLON

MODEL

VSHT/316LSS

WALKER STAINLESS

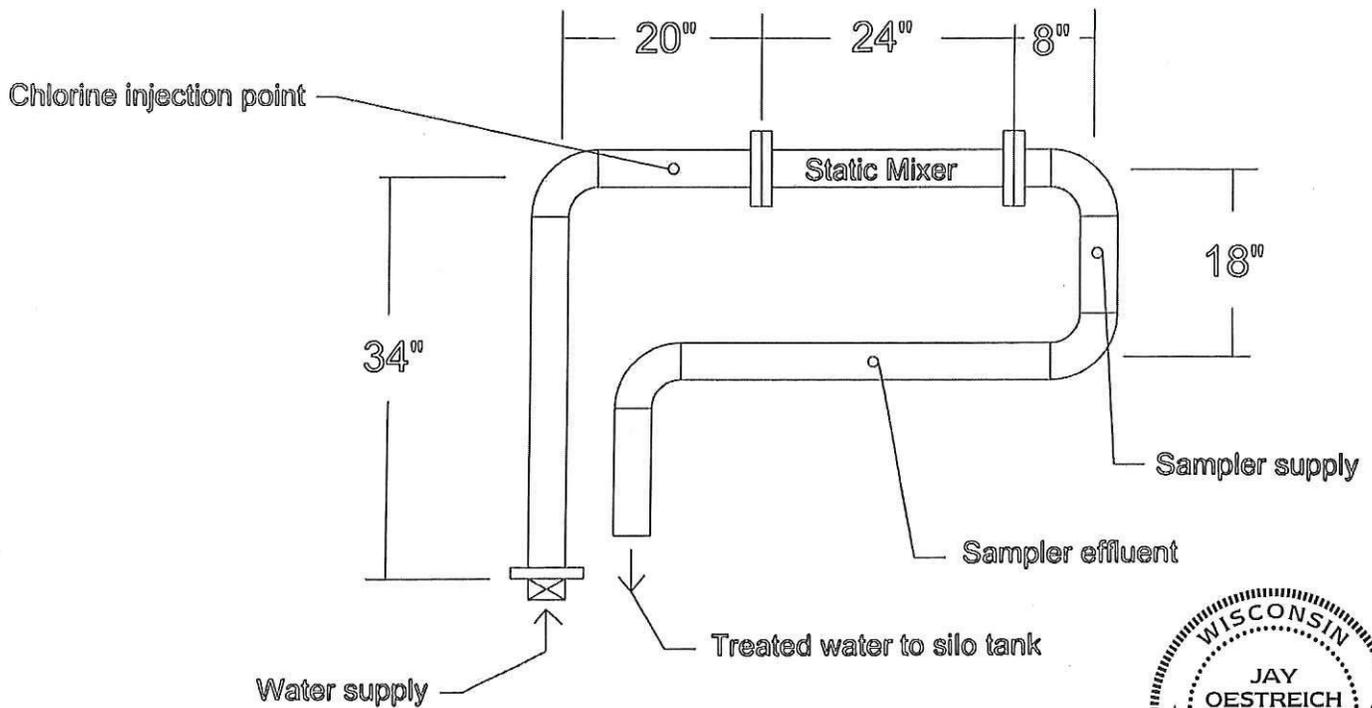
EQUIPMENT CO., ELROY, WI.

A **CARUSLE** COMPANY

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Chlorine injection water loop
3" 316L sch. 10 S.S.



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CT for a 4-log reduction

| Peak in (gpm) | Peak out (gpm) | Peak draw (gpm) | Draw time (min) |
|---------------|----------------|-----------------|-----------------|
| 203 | 1000 | 797 | 18.92 |

Tank contact volume

| Diameter (ft) | inlet elev. (ft) | outlet elev. (ft) | Volume (gallon) |
|---------------|------------------|-------------------|-----------------|
| 11.33 | 3.33 | 23.33 | 15,083 |

Concentration of chemical XY-12

| Chemical (%) | Chem dosing (mg/L) | Actual dose (mg/L) |
|--------------|--------------------|--------------------|
| 8.40% | 5 | 0.42 |

CT calculation

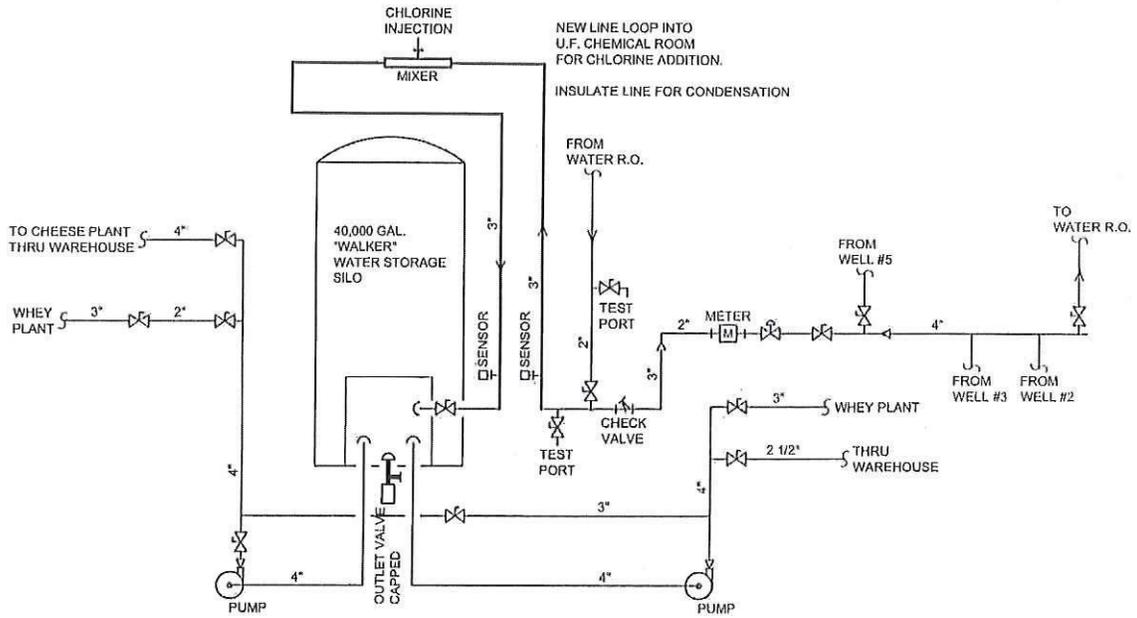
| Time (minutes) | Concentration (mg/L) | CT Required | CT Provided |
|----------------|----------------------|-------------|-------------|
| 18.92 | 0.42 | 6 | 7.9482569 |

CT required per Table NR 810.53 at 10°C.



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CHLORINE ADDITION

CHILTON, WISCONSIN

FOREMOST FARMS USA
 DRW. #: CHE13

6-20-13



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