



January 06, 2016

CUST ID No. 1221396

ATTN: Plumbing Inspector

KEVIN MARSHALL
US WATER LLC
6905 VENTURE CIR
WESTON WI 54476

BUILDING INSPECTION
TOWN OF PLOVER
5081 HOOVER RD SOUTH
PLOVER WI 54467

CONDITIONAL APPROVAL
PLAN APPROVAL EXPIRES: 01/06/2018

SITE:

Mccains Foods
Hwy 54 & 110TH St
Town of Plover, 54467
Portage County

FOR:

Facility: 743440 MCCAINS FOODS
HWY 54 & 110TH ST
PLOVER 54467
Plan Type: Addition-Alteration; 1 Interior Fixture(s)

Object Type: Commercial Water Treatment Device Regulated Object ID No.: 1575788

Identification Numbers
Transaction ID No. 2634424
Site ID No. 804789
Please refer to both identification numbers, above, in all correspondence with the agency.

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 POU based system is allowable under **WDNR Consent Order 2014-WCEE-006-McCain Foods**.
- SCOPE: This system is comprised of the following main components:
 - a. Two 500 gpd RO systems (model no. Axeon Flexeon HT-500)
 - b. Two 250 gpd RO systems (model no. Axeon Flexeon HT-250)
 - c. Twenty-two POU coolers (model no. WL1000GF)
 - d. One Microline RO [model no. T.F.C.-335 (previously approved for nitrate reduction by DSPTS)]
 - e. One Pentair RO (model no. PB5RO-75) (previously approved for nitrate reduction by DSPTS)

Item numbers 4 and 5 are installed under the breakroom sinks within the Americold annex and do not serve any coolers.

The coolers serve only to heat, cool and convey the treated water; the coolers do not contain integral treatment. A representative example of how all coolers shall be installed is included as an attachment to this letter.

- All PEX piping shall conform to ASTM F876/F877.
- All PE tubing shall conform to NSF Standard 51 and/or NSF Standard 61.

- All drain lines shall terminate with an air gap that conforms to ASME A112.1.2 or ASME A112.1.3.
- A sample tap shall be installed at the POE and permeate lines on each individual RO to facilitate ongoing WDNR compliance monitoring.
- These products have 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.
- A complete set of installation, operation, maintenance instructions and source of supply for expendable components shall be provided to the system owner and retained onsite.
- 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 system 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.
- Each RO system shall be provided with an in-line total dissolved solids (TDS) monitor, or other acceptable means, to warn the user when the system is not performing its functions. Acceptable alternatives to an in-line TDS monitor include:
 1. Terminating the discharge of treated water;
 2. sounding an alarm which is connected to acceptable power source;
 3. flashing a light connected to an acceptable power source;
 4. providing the user with an obvious, readily interpretable, indication of the system's ability to perform (e.g. decreasing the flow rate of treated water by 50% or more for systems making mechanical filtration claims;
 5. providing a sampling service by the manufacturer, either directly or through an authorized dealer, a minimum of once every six months;
 6. providing a sampling kit for analysis of TDS or other appropriate contaminants; or
 7. providing a handheld TDS monitor to measure the RO permeate quality.
- In addition to the product water quality monitor specified elsewhere in this letter, this device shall be provided with at least one of the following means to warn the user when the system is not performing its function specifically in the context of nitrate reduction:
 - a. a nitrate/nitrite monitor on the RO permeate water stream; or
 - b. a sampling and analysis kit for nitrate/nitrite with explicit instructions of recommended frequency of analysis.
- The finished installation must undergo a final inspection prior to the treated water being used for consumptive purposes. The Plumbing Consultant having jurisdiction in this area is Bruce Meiners. Mr. Meiners can be reached via the following:

If the treated water is used for consumptive purposes prior to passing the final inspection, then this approval may be rendered null and void and the system ordered removed. The Plumbing Consultant shall provide a written indication of the results of the final inspection to the system owner. When the final inspection has been passed, the Plumbing Consultant will notify the Wisconsin Department of Natural Resources (WDNR) Field Staff having authority over the well. The WDNR will then monitor the quality of the treated water to its satisfaction. Monitoring advice, which the WDNR is free to accept or reject, is provided elsewhere in this letter. The WDNR Field Staff having authority over this well is Adam Scheunemann. Mr. Scheunemann can be contacted via the following:

Phone: 715-421-7807

E-mail: adam.scheunemann@wisconsin.gov

- The suggested monitoring interval for this installation is quarterly. As a minimum, the following tests should be performed:

1. nitrate, raw and treated (i.e. influent and permeate).

Each **RO system** must be individually tested to assure ongoing performance. However, it's unnecessary to test each individual cooler.

- If this approved plan 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.

In addition, please note the following that must be provided:

- a. the influent feed water pressure to this device must be \geq the manufacturer's designed minimum at all times.
 - b. a product water quality monitor must be installed (general membrane integrity); and
 - c. nitrate test strips, or equivalent, must be provided to the business owner (specific nitrate reduction membrane performance)
 - d. the influent water to the RO system must be pretreated as required to prevent premature membrane fouling.
- Any wall hydrant that is not served by the nitrate treatment device must have one, or more, of the following:
 1. The handles of the hydrant shall be removed;
 2. The hydrant shall be capped and sealed using solder; or
 3. Signage shall be posted immediately above the hydrant indicating the water is unfit for human consumption.
 - All water distribution piping, potable and non-potable, shall be marked as required by Table 82.40-1a. In addition, any untreated water outlets, other than water closets and urinals, must continually post a WDNR approved public notice which advises Foremost patrons/employees that nitrate levels may 10 mg/l and the potential health effects of exposure.
 - No bypass piping shall be installed on this nitrate reduction device. However, a locking bypass valve may be permissible.

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 - 3:45PM
 Friday 7:00AM - 12:00PM
 glen.schlueter@wisconsin.gov

Fee Required \$	160.00
Fee Received \$	160.00
Balance Due \$	0.00

WiSMART code: 7657

cc: Bruce Emerson Meiners, Plumbing Consultant, (608) 399-4156 , Mon - Fri 8:00 am - 4:30 pm
 Faith Lovett, Mccain Foods USA Inc
 US Water LLC

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.

AMERICOLD
 D43 (BREAK ROOM)
 D44 (OFFICE)

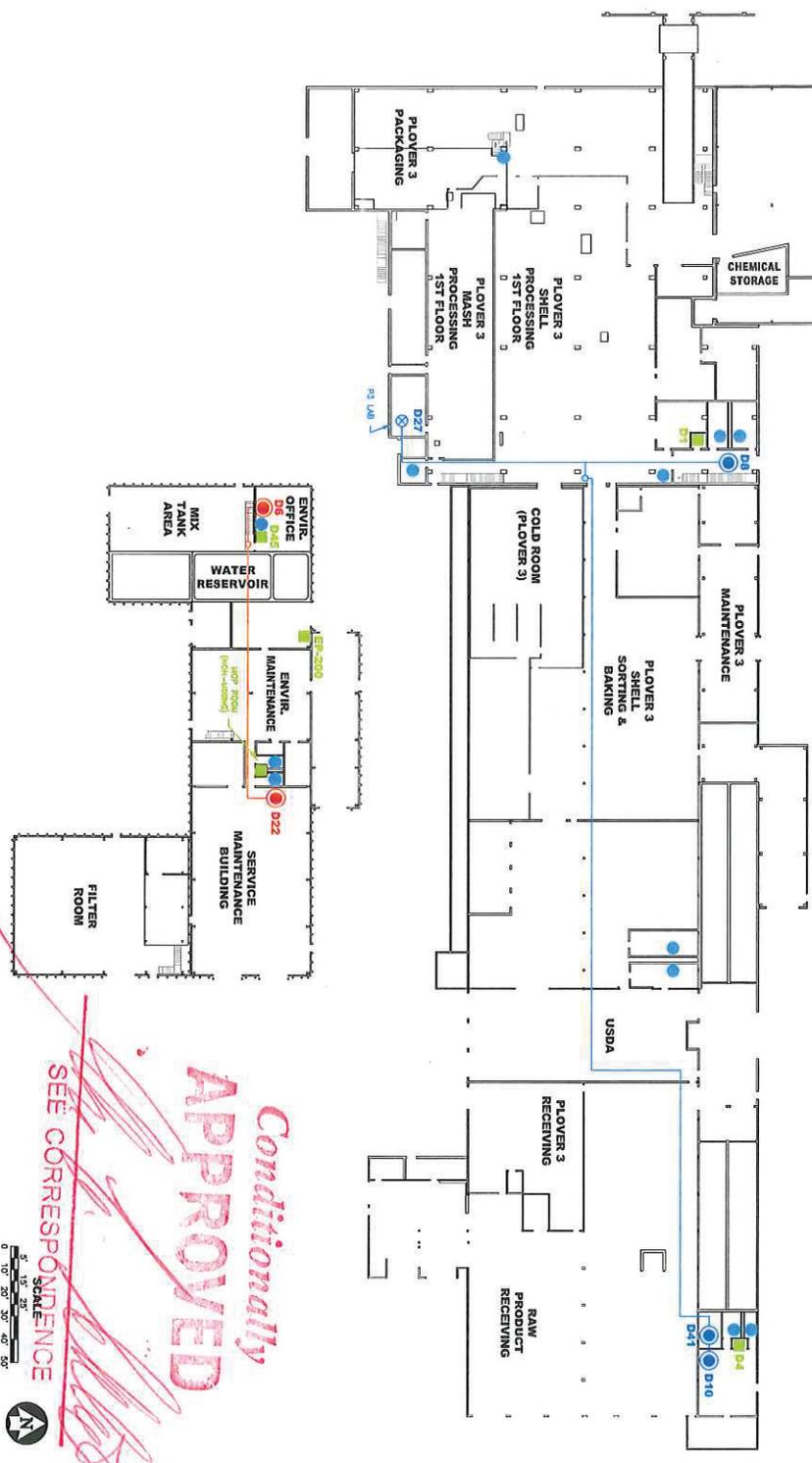
NOTES
 DRINKING WATER STATION
 WATER SUPPLY PIPING TO BE
 1/2" (BUD) PCD TUBING

- LEGEND
- DRINKING WATER STATION
 - HAND WASHING TROUGH/SINK WATER FAUCET
 - HOT ROOM/HEATING LOCATION FAUCET
 - PROCESS WATER FAUCET
 - ⊗ RO SHUT/OFF FAUCET
 - ⊗ R.O. SYSTEM
 - WATER SOFTENER SMO

D NO.	LOCATION (FACTORY)
D1	Boiler Room Service Faucet after Treatment
D2	P2 Housekeeping Sink
D3	Main Office Housekeeping Sink
D4	P2 Housekeeping Sink
D43	Break Room Housekeeping Sink
D44	Environmental Housekeeping Sink

D NO.	LOCATION (NO. LOC. VOC. P.C. C.U.)	D NO.	LOCATION (NO. LOC. VOC. P.C. C.U.)
D5	Reception	D21	BAR
D6	Environmental Office	D22	Service Maintenance
D7	P2 Break Room	D23	P2 Processing Lab
D8	P2 Entry	D24	P2 2nd Floor
D9	Dock Break Room	D25	Pastrying / Packaging
D10	P1 Processing Maintenance	D26	Quart Shop (TO)
D11	P1 Processing Lab	D27	Main Break Room (Vending)
D12	Main Break Room	D28	Dock Break Room (Vending)
D13	EDI Shop	D29	P2 Break Room (Vending)
D14	P1 Processing Lab	D30	Americold Office (TO)
D15	P1 Maintenance	D31	Americold Office (TO)
D16	Water Control Room	D32	Cutting Lab
D17	Stock Room	D33	
D18		D34	
D19		D35	
D20		D36	

DRINKING WATER STATION & SAMPLE SITE LOCATIONS
 1st FLOOR (SOUTH)



Conditionally
APPROVED
 SEE CORRESPONDENCE



NOTES

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 CONFIDENTIAL
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 manner without the express written authorization
 of
 McCain Foods USA, Inc.
 Plover, WI

NO.	DATE	REVISION

DWG. NO.	DWG. TITLE

McGraw Hill
 PREPARED BY: NOT FOR CONSTRUCTION
 APPROVED FOR CONSTRUCTION
 APPROVED BY: ALL REVISIONS ISSUED

McCain Foods USA, Inc.
 P.O. Box 1000
 Plover, WI 53075
 Phone: (715) 423-0000 Fax: (715) 423-7816

McCain Foods Limited - Plover, WI

DWG. TITLE: Drinking Water Station &
 Sample Site Locations 1st Floor (South)

DSN BY: D/Rab/MS DATE: 08/20/2015

SHEET NO.: 11417 SCALE: 1"=25'

PROJECT NO.: 250- DATE: 1st Flr South

SHEET NO. OF

