SMALL SYSTEMS BULLETIN

MINNESOTA RURAL WATER ASSOCIATION
-April 2016-

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Dear Lori,

Welcome to this edition of the *Small Systems Bulletin*. The purpose of this bulletin is to keep you informed on issues concerning your water system. We issue this bulletin quarterly. Topics covered in the bulletin include: operation and maintenance, treatment, backflow/cross-connections, regulations, operator training, management, and many others. Dates and locations of future workshops are included.

If you have suggestions about topics that you would find helpful give us a ca 800-367-6792 or send us an email at kyle.kedrowski@mrwa.com or jennifer.koenig@mrwa.com. Maybe you had a unique experience at your wa system that you would like to write about and submit for the bulletin. We're always looking for volunteer writers! We hope this bulletin will be of assistar you in operating your water system. ***Watch for this quarterly newsletter we'll see you at a future small system training workshop!***

Water Softening for Small Water Systems

by Jennifer Koenig

Above: Water Sof

Most water softening at small systems is accomplished with an ion exchange unit (water softener) that removes hardness from water. Water softeners are typically installed to treat all or much of the water supply in a building. Dissolved calcium and magnesium cause hardness in water. An ion exchange unit uses a resin that exchanges sodium ions for calcium and magnesium ions as the water passes through. A brine (salt) tank provides the ion exchange unit the sodium required to regenerate the resin bed on a periodic basis: **Read more>>>**

The QUIZ SPOT

1. Polyphosphates should be fed at which point?
a. After the addition of chlorine.
b. Before the addition of chlorine.
c. Not at all if chlorine is fed.
d. After aeration.

2. A main break may cause low pressure in the distribution system, which in turn may result in:
a. Contamination of the system by backsiphonage.
b. Ice formation in the pipes.
c. Increase in chlorine residual.
d. Water hammer.
3. What are disease producing bacteria called?
a. Parasites.
b. New strain.
c. Sour type.
d. Pathogenic.

answers: 1-b, 2-a, 3-d

YOU MUST PRE-REGISTER FOR THESE CLASSES:

To register: Call our office at: 800-367-6792 - OR - Online at: www.mrwa.com

**All Class D & E training sessions are subject to cancellation because of low attendance.*

4 certification hours awarded for Class E training for full attendance and 8 certification hours awarded for Class D training for full attendance.

Upcoming Training Sessions

Class E Training (8am - Noon)

May 3, 2016 -
St. Peter Community Center
St. Peter Room, 600 South 5th Street, St. Peter, MN

May 10, 2016 -
City of Scandia Community Center
14727 209th Street North, Scandia, MN

Class D Training (8am - 5pm)

April 26, 2016 -
Minnesota Rural Water Association
217 12th Avenue SE, Elbow Lake, MN 56531

Sincerely,

Kyle Kedrowski & Jennifer Koenig
Minnesota Rural Water Association