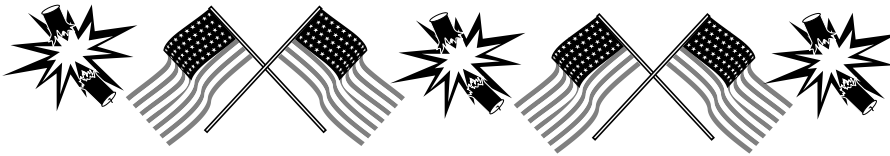


# GRANITE STATE OPERATOR

Spring 2006

GRANITE STATE RURAL WATER ASSOCIATION NEWSLETTER



## WELCOME TO OUR FIRST NEWSLETTER!

We would like to thank everyone who has helped make our transition successful, we could not have done it without you. We look forward to working with all of you as we continue to grow.

-The Staff of GSRWA



Front row: Scott Clang, Jack Shields  
Back row: Vinnie Melendez, Heidi Brannon, Angie Alexander,  
Donny Boynton, Jay Matuszewski

### Who We Are

Since 1982, the staff of Granite State Rural Water Association has supported water and wastewater systems across the state. We provide many services including training, source water protection planning and onsite technical assistance.

### Contact us

322 Village Street  
Penacook, NH 03303  
603-753-4055  
603-753-0031 fax  
info@gsrwa.com  
www.gsrwa.com

### Board of Directors

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Normand Provencher, Pembroke Water Works  
Dave Bernier, North Conway Water Precinct  
Paul Whittemore, Pembroke Water Works  
Robert Fagnant, Woodsville Water & Light

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## Executive Notes

Life is full of changes; it is how we handle changes that define our personal lives. Do we embrace change and move smoothly to opportunity? Or do we resist change and condemn ourselves to frustration? It's our choice.

Associations change too and our attitude to change is also a choice. We have a new name, office, board and mission. We have some new staff and some old staff. We have new untried ideas and we have the old tried and true solutions. We must take the best of both the new and old to make an association that is relevant to today's water operator. We want to take advantage of this opportunity to radically change our association to something new, something just for New Hampshire.

How will we know if we are successful? We're successful if we meet the needs of the operator to perform their job and help them to provide good quality drinking water to the system users. We're successful if we have managed to develop good working relationships with our regulatory agencies DES and EPA, with our funding sources USDA and NRWA and with our Associate Members who provide the products and services we use to do our work.

Part of our success will rest with you. Do you support us by being a member? Have you recommended us to other systems for help? Have you spoken to our federal and state legislators about the job we do for you? That is important to our success too.

2006 will be a challenging year. A year of many firsts including, I am sure, some first mistakes. But attitude is what counts, we go on from here and we make this the best organization it can be. GSRWA is all about change because it's all about opportunity.

Jack Shields

*"When you are through changing, you are through."*

Bruce Barton

## TRAINING EVENTS

### Line Locating & Leak Detection

Date: April 11, 2006  
At: Boscawen Congregational Church  
Cost: \$60 non-members  
\$48 GSRWA members

### "One Plan" Integrated Contingency Plan

Date: April 11, 2006  
At: Conway Fire Station  
Cost: \$60 non-members  
\$48 GSRWA members

### NH Campground Series

Date: April 18, 2006  
At: Raymond Fire Station  
Cost: \$40 non-members  
\$32 GSRWA members

### NH Campground Series

Date: April 20, 2006  
At: Conway Fire Station  
Cost: \$40 non-members  
\$32 GSRWA members

### Basic Electrical Workshop

Date: May 4, 2006  
At: Enfield DPW Training Room  
Cost: \$60 non-members  
\$48 GSRWA members

### "One Plan" Integrated Contingency Plan

Date: May 9, 2006  
At: Mt. Sunapee Lodge  
Cost: \$60 non-members  
\$48 GSRWA members

### Basic Water/Wastewater Math

Date: June 1, 2006  
At: Enfield DPW Training Room  
Cost: \$50 non-members  
\$40 GSRWA members

### Collection System Blueprint Reading

Date: June 6, 2006  
At: Lancaster NH Area (TBA)  
Cost: \$50 non-members  
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Call 603-753-4055 for updated listing of training events.

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## Quiz Corner

### Multiple Choice

- For regulatory purposes, a \_\_\_\_\_ sample is taken for fecal coliform analysis.
  - composite
  - grab
  - manual composite
  - composite of grabs of 1 per shift
- What is the BOD of the following sample, using 25 mls of sample in a 300 ml bottle?  
Initial DO = 9.20  
Final DO = 2.10
  - 28 mg/l
  - 85 mg/l
  - 58 mg/l
  - 106 mg/l
- What is the term for the process by which water vapor passes into the atmosphere from living plants?
  - transpiration
  - percolation
  - hydrologic cycle
  - condensation
- What is the term for using treated municipal wastewater to supplement a community's drinking water supply by blending the wastewater with raw water resources?
  - nonpotable reuse
  - indirect potable reuse
  - direct potable reuse
  - direct nonpotable recycling
- A primary sludge pump is pumping 5% solids at 250 gal/min. If the pump operates for 65 mins in a 24 hr period, how many pounds of solids are pumped?
  - 1948 lb/d
  - 4828 lb/d
  - 6776 lb/d
  - 9742 lb/d
- A tank is 30ft x 20ft x 10ft deep. Calculate the pumping rate if the pump fills the tank in 4 hours.
  - 255 gal/min
  - 515 gal/min
  - 187 gal/min
  - 287 gal/min
- Polishing ponds are an example of \_\_\_\_?
  - aerated lagoons
  - aerobic lagoons
  - facultative lagoons
  - anaerobic lagoons
- Stabilization lagoons are generally used for populations.
  - less than 100 people
  - less than 20,000 people
  - less than 80,000 people
  - less than 100,000 people
- The acceptable oxygen level range for confined spaces set by OSHA is?
  - 19.5% to 23.5%
  - 19.5% to 22%
  - 17.5% to 23.5%
  - none of the above

**Answers on Page 4.**

References:  
 NEWEA Wastewater Laboratory Study Guide  
 WEF/WE&T Operations Forum  
 J.J. Keller & Associates, Inc, Confined Space Handbook

# Value added service from EJP.



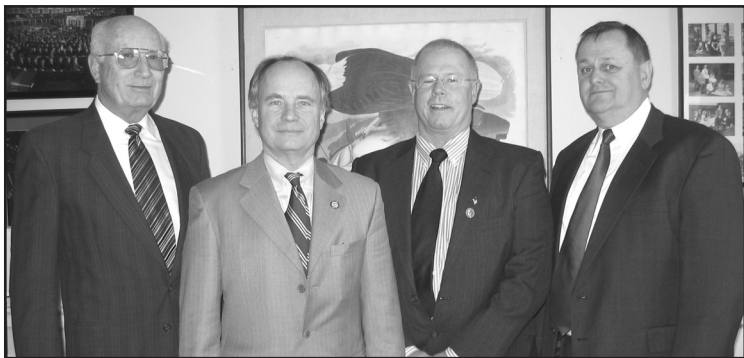
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**February 2006: Working in Washington, DC**  
 Left to right: Rob Leigh, Bow, Rep. Charles Bass, R-NH,  
 Jack Shields, GSRWA, Bruce Bond, Center Harbor.

### Quiz Corner Answers

- |  |  |
|--|--|
| 1. B-Grab  | 6. C-187 gal/min, 30ft x 20ft x 10ft<br>= 6000 cu/ft x 7.48 gal/cuft =<br>44880 gals divided by 240 min =<br>187 gal/min |
| 2. B-(Initial DO-Final DO) x 300 ml<br>bottle divided by ml of sample,<br>(9.2-2.1) x 300 divided by 25 = 85<br>mg/l | 7. B-Aerobic lagoons   |
| 3. B-Indirect potable reuse  | 8. B-Less than 20,000 people   |
| 4. A-Transpiration   | 9. A-19.5% to 23.5%  |
| 5. C-6776 lb/d, 250 gal/min x .05 =<br>12.5 gal/min of solids x 65 min/d x<br>8.34 lb/gal = 6776 lb/d                |  |

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Bennington Water  
Berlin Water Works  
Birchwood Terrace MHP  
Blue Berry Hill MHP  
Bunker Lane Condo Assoc.  
Camp Deerwood  
Camp Merrowvista  
Canaan Water  
Cardigen Mountain School  
Central Hooksett Water  
Charlestown Water Works  
Chalk Pond / Acton  
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Chester College of New England  
Cogswell Spring / Henniker  
Colebrook Water Works  
Conway Village Fire Dist.  
Coos County Facilities  
Crotched Mountain Resort  
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Emerald Lake Village Dist.  
Enfield Water  
Hairhaven MHP  
Farmington Water & Wastewater  
Fisherfield Townhouses  
Fitzwilliam Village Water  
Franklin Water  
Glenciff Home  
Gorham Water & Sewer  
Governor Wentworth Reg. School Dist.  
Grandview Estates of Rochester  
Granliden on Sunapee  
Green Valley MHP  
Greenville Estates Coop.  
Grey Ledges Condo Assoc.  
Hampshire County School  
Hanover Water Works  
Hinsdale Water Works  
Hinsdale WWTP  
Hooksett Village Water  
Hopkinton Village Precinct  
Jackson Water Precinct  
Jaffrey DPW – Water/Wastewater  
Kilnwood on Kanasatka  
Lake Shore Park  
Lampighter MHP  
Lancaster Water Dept.  
Lebanon Utility Operations  
Ledges at Newfound  
Lincoln Water Works  
Lisbon Water/Wastewater  
Littleton Water & Light

Long Island Bridge Campground  
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Meredith Water Dept.  
Meriden Village Water  
Merrymeeting River MHP  
Milford DPW  
Milton Water Works  
Monadnock Tenants Coop  
Monroe Water  
Mountain Lakes Water  
New Hampton Village Precinct  
New London Sewer Dept.  
New London-Springfield Water  
Newport Water Works  
North Country Village Coop  
North Haverhill Water & Light  
North Walpole Village Dist.  
Northumberland Water Works  
Patrician Shores Assoc.  
Pembroke Water Works  
Penacook-Boscawen Water  
Peninsula @ Winding Brook  
Peterborough Water Works  
Pickpocket Woods Well Assoc.  
Pine Haven Campground  
Plymouth Village Water & Sewer  
Raymond Water  
Rochester Water  
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Rye Water District  
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Taskers MHP  
Troy Water Works  
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Village Dist. Of Eastman  
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Warner Village Water  
Waterville Estates Village  
Waterville Valley Water  
West Swanzey Water  
Whitefield Water  
Wilton Water Works  
Winchester Water  
Winchester WWTP  
Winnstock Condos  
Wolfeboro Water Works  
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### EJ Prescott, Inc.

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### Ferguson Waterworks

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### FR Mahony & Assoc.

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### Natgun Corporation

11 Teal Rd, Wakefield, MA 01880  
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## Publication Information

Granite State Operator is the official publication of GSRWA. It is published quarterly for distribution to operators, managers and board members of water and wastewater systems in New Hampshire, as well as to associate members, regulators and other friends. Opinions expressed in the newsletter do not necessarily reflect the views and policies of GSRWA.

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