2020 Onsite Wastewater Conference Onsite System Workshop

1. EQUAL DISTRIBUTION USING PUMPS

Purpose and Advantages of Equal Distribution

- Goals
- Tools
 - Stone & pipe
 - Manufactured distribution products
 - Stone Substitutes
 - Passive treatment products
- Pumps and Controls choices

Design of Equal Distribution Systems

- With and without design spreadsheet
- Use of up to 4 design problems large and small

2. TRIAGE & TROUBLESHOOTING CONTROL PANEL PROBLEMS & ALARMS

The Alarm Call

- Asking the right questions
- Starting with the simple, progressing to the complex
- Common wrong assumptions

The Site Visit

- First steps data and observations
- Understanding and knowing how the panel SHOULD function
- Testing steps manipulation and observation
- Corrective actions start with the simple, progress to the complex

Case Scenarios

- What should you ask?
- What do you think the problem could be?
- What do you know is likely not the problem?
- Where would you look first?
- How would you test and find out?
- If that's not it, what would you do next?

3. <u>DESIGNING FOR NITROGEN REMOVAL</u>

Nitrogen forms in the environment

- Forms of N and risks they represent
- Sources of N in the environment
- Creating the circumstances for N conversion
- Creating the environment for N removal in our onsite wastewater systems

4. <u>HIGH STRENGTH WASTEWATER AND HOW IT AFFECTS OUR ONSITE SYSTEMS</u>

- Definition of HIGH STRENGTH Wastewater and its Impact on Onsite Systems
- Where is it found? Watch out for the pitfalls! Don't make assumptions!
- Treatment Systems designed for high strength wastes
- Drainfield sizing for high strength wastewater
- When should I get nervous?

5. CASE STUDIES WHERE ADVANCED TREATMENT HELPED SOLVE PROBLEMS