WE&RF Test Bed Network Directory

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Background on LIFT

LIFT is a WEF/WE&RF Initiative
Accelerating Innovation Into Practice
Utility Technology Focus Groups

1. Shortcut Nitrogen Removal
2. P-Recovery
3. Digestion Enhancements
4. Biosolids to Energy
5. Energy from Wastewater
6. Collection Systems
7. Green Infrastructure
8. Small Facilities
9. Odor Control
10. Disinfection
11. Water Reuse
12. Intelligent Water Systems
Technology Scans

LiFT® Technology Scans 3-Step Process

SCAN & SORT

BASIC TECHNICAL REVIEW

ASSESSMENT BY INTERESTED PARTIES
Technology Scans

69 Technologies
65 Companies
• Discover new technologies
• Connect with others with similar needs, technology interests, and desired expertise
• Collaborate on research and technology ideas, proposals, projects, demonstrations, and implementation

* Currently in beta, release expected fall 2016
Collaborations for RDD&D

- Universities
- NGOs
- Federal Agencies
- Technology Providers
- Utilities
- Consultants
- Others
- Financers
Identifying Test Bed Facilities

- **Level 1**: A university or research lab that can assist with bench-scale work but is not dedicated to piloting new technologies
- **Level 2**: A water resource recovery facility that is interested in innovation and willing to host a project, but does not have a dedicated test facility
- **Level 3**: A water resource recovery facility or research lab with a dedicated physical space available for piloting innovative water technology
- **Level 4**: A staffed facility dedicated solely to R&D/piloting of new technologies
Test Bed Facility Directory

- Level 1
- Level 2
- Level 3
- Level 4

45+ across North America

www.werf.org/testbeddirectory
Facility Details

Robert W. Hite Treatment Facility
Metro Wastewater Reclamation District

Type of Facility: Level 3. A wastewater treatment facility with a dedicated physical space available for piloting innovative water technologies.

Facility Contact:
James McQuarrie
Chief Innovation Officer
(303) 286-3374
JMcQuarrie@dmwrd.dur.co.us
http://www.metro wastewater.com/Make/default.aspx

Facility Address:
6400 York Street
Denver, CO 80229
United States

Facility Partners:
The Denver metro region is experiencing a significant increase in inter-agency alliances (e.g., city, water utility, wastewater utility, electrical utility) to maximize opportunities to work collaboratively on "One water" opportunities, and renewable energy opportunities.

Description of Test Facility:
The RWHTF is a 320 MGD rated facility, that serves roughly 1.8M people in the Denver metro area. This large facility serves a cold region where water is scarce. The receiving stream for the RWHTF is very small, so the river is predominantly effluent from the RWHTF. The facility achieves biological phosphorus and nitrogen removal, and is expected to get down to very low effluent nutrient limits. It has BMPs on the barge.

The District is in the process of installing a 3D neg secondary treatment train to facilitate demonstration scale evaluations of technologies and treatment approaches.

The District is staffed with an extremely capable group of employees, ranging from in-house process...
Thank You!

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