

Nutrient Control Workshop for Efficient Wastewater Treatment

October 16 – 18, 2012 • Bridge Conference Rooms C & D • Sam Nunn Atlanta Federal Center • 61 Forsyth Street, SW • Atlanta, GA

Draft Agenda

Nutrient Control Workshop for Efficient Wastewater Treatment

October 16 – 18, 2012

Day 1 — Nutrient Control and the Challenges Ahead

- 11:30 a.m.** **Check-In and On-Site Registration—Lunch (on your own)**
- 1:00 p.m.** **Welcome and Introduction to the Workshop**
Jim Giattina, Director, Water Protection Division—USEPA Region 4

National and Regional Nutrient Challenges

- 1:30 p.m.** **The National Nutrient Challenge**
Dr. Ellen Gilinsky, Senior Policy Advisor—USEPA Office of Water
- 2:15 p.m.** **The State of Our Waters in the Southeast**
Gail Mitchell, Deputy Director, Water Protection Division—USEPA Region 4
- 3:00 p.m.** **Break**

Nutrients and the Challenge of Sustainability

- 3:15 p.m.** **TBD**
Dr. Elizabeth Booth, Georgia Environmental Protection Division
- 3:45 p.m.** **Diverting Nutrients from Discharge to Reuse**
Steve Wirtel, Ostara Nutrient Recovery Technologies, Inc.
- 4:10 p.m.** **Wastewater Scalping Using Membrane Bioreactors**
Kiera Fitzgerald, TSG Technologies
- 4:35 p.m.** **Panel Discussion and Audience Questions—Nutrients and the Challenge of Sustainability**
- 4:50 p.m.** **Day 1 Wrap-Up**
- 5:00 p.m.** **ADJOURN FOR THE DAY**

Day 2 — Optimizing Nutrient Control at Wastewater Treatment Plants

8:30 a.m. Welcome and Introduction to Day 2

Nutrient Removal in Small Systems

8:45 a.m. Small Systems
Dr. Larry Moore, University of Memphis

9:15 a.m. Small Systems Case Study
Bob Freeman, USEPA Region 4
Jennifer Dodd, Tennessee Department of Environmental Conservation

9:45 a.m. Panel Discussion and Audience Questions—Nutrient Removal in Small Systems

10:15 a.m. Break

Optimizing Nutrient Control by Existing Treatment Systems

10:30 a.m. The Use of Supervisory Control and Data Acquisition (SCADA) and Programmable Logic Control (PLC) Systems to Improve Efficiency
Brad Blais, Quentin L. Hampton Associates, Inc.

11:00 a.m. Medium-Sized System Optimization Case Study— 5-Stage A/O with Methanol Addition Joseph Pearce, Triangle Wastewater Treatment Plant, Durham, North Carolina (12 mgd; 5.2 mgd reclaimed)

11:30 a.m. Panel Discussion and Audience Questions—Optimizing Nutrient Control at Existing Treatment Systems

12:00 p.m. Networking and Exhibits and Lunch (on your own)

Retrofitting for Efficient Nutrient Control

2:30 p.m. Medium System Retrofit Case Study—3-Stage AS BNR Retrofit
Jeff Knight, North Oconee Water Pollution Control Plant, Athens-Clark County, GA (6.77 mgd)

3:00 p.m. Small Plant Retrofit Optimization Case Study—Phased Isolation Ditch Upgrade for Reliable Nitrogen Reduction Mark Drake, Kruger, Inc.*

3:30 p.m. Break

3:45 p.m. TBD

4:15 p.m. Panel Discussion and Audience Questions—Retrofitting Treatment Systems for Efficient Nutrient Control

4:45 p.m. Day 2 Wrap-Up

5:00 p.m. ADJOURN FOR THE DAY

* Invited

Day 3 — Working Together to Meet Nutrient Challenges

8:30 a.m. Welcome and Introduction to Day 3

Nutrient Control Regulatory Framework and Implementation Options

8:45 a.m. Panel Discussion—Regulatory Framework for Nutrient Control

Moderator—Maryjo Bragan, USEPA Region 4

Panelists—

- *Water Quality Standards*—Joel Hansel, USEPA Region 4
- *TMDLs*—William Melville, USEPA Region 4
- *Nonpoint Sources*—Rich Budell, Florida Department of Agriculture and Consumer Services
- *NPDES Permits*—Mark Nufer, USEPA Region 4
- *Compliance*—TBD

10:15 a.m. Break

10:30 a.m. Panel Discussion—Financing Nutrient Control

Moderator—Maryjo Bragan, USEPA Region 4

Panelists—

- *Financing Mechanisms*—Jeff Hughes, UNC Environmental Finance Center*
- *Finance Options*—Gregory Mason or Kevin Kelly, Georgia Environmental Finance Authority
- *State Revolving Fund*—Sheryl Parsons, USEPA Region 4
- *Energy Management*—Brendan Held, USEPA Region 4

11:45 a.m. Workshop Wrap-Up

12:00 p.m. ADJOURN