



Nutrient Treatment Technology Symposium

OCTOBER 21, 2013 | 8:00 am to 4:00 pm

Why is this Important?

Historically, the San Francisco Bay (Bay) has not been adversely affected by nutrients (nitrogen and phosphorus). Consequently, discharge regulations for most of the wastewater facilities discharging to the Bay do not include nutrients. However, the San Francisco Regional Water Quality Control Board (RWQCB) is in the process of developing nutrient watershed permit(s) for the Bay. The RWQCB is planning to issue the watershed permit(s) in 2014. As part of the permit, the RWQCB may require Wastewater agencies in the Bay Area to assess alternatives for optimizing and/or upgrading their wastewater plants to reduce nutrients in the future.

Who Should Attend?

This Symposium is applicable to all BACWA member agencies, regulatory and resource agencies (e.g. RWQCB and EPA staff), environmental consulting firms, university and research organizations, and environmental non-governmental organizations (NGOs).

When, Where, Cost

The Symposium will be held from 8 am to 4 pm at the office of SPUR, located at 654 Mission Street, San Francisco, CA. It is located a few blocks from the Montgomery Street BART station. Continental breakfast and lunch will be provided. The cost for the Symposium is \$12 per person.

Please RSVP to Lorien Fono,
lfono@pmengineers.com
no later than 5 pm Monday,
September 16, 2013.

Symposium Overview and Program

The one-day Symposium is organized into four segments as follows:

- **Segment 1: Conventional Treatment Technologies:** Summary of conventional biological, physical and chemical processes commonly employed by most agencies, and their adaptability to nutrient reduction.
- **Segment 2: Optimization of Existing Facilities:** How to get the most out of your existing treatment processes to meet potential future nutrient requirements.
- **Segment 3: New Approaches, Technologies, and Research:** Overview of new developments, Bay-Area ReNUWI research update, and nutrient mining.
- **Segment 4: Bay-Delta Regional POTW Nutrient Activities Update:** Updates from local member agencies on current and planned studies/activities related to nutrient treatment.

Symposium participants include nationally recognized leaders in nutrient treatment technologies and research. Participants include: Dr. David Jenkins (*UC Berkeley*), Dr. Denny Parker (*Brown and Caldwell*), Dr. JB Neethling (*HDR*), Dr. James Barnard (*Black & Veatch*), Bry' Sarte (*Sherwood Engineers*), Dr. Alex Ekster (*Ekster & Assoc.*), Dr. Beverley Stinson (*AECOM*), John Fraser and Andre Gharagozian (*Carollo Engineers*), Dr. David Sedlak (*UC Berkeley*), and Steve Wirtel (*Ostara*).

Bay-Delta POTW's participating include: EBMUD, CCCSD, SFPUC, SRCSD, EBDA, and SJ/SC Regional Wastewater Facility. The format includes presentations and open panel discussions allowing interactive participation.

Save the Date