

BACWA - Information Sharing Group  
Meeting Minutes  
November 19, 2008  
10:00-2:00 at EBMUD

**ATTENDEES**

Alan Weer, CCCSD  
Dave Livingston, USD  
Dave Frietas, EBMUD  
John Hake, EBMUD  
Stephanie Chen, EBMUD  
Talyon Sortor, FSSD  
Brian Hawley, FSSD  
Greg Baatrup, FSSD  
Mick Berklich, SRWTP  
Chris Finton, CMSA  
Mike Barnes, WBA

**DISCUSSION ITEMS**

**08-3.1 Climate Change Issues for WWTPs**

John Hake and Stephanie Chen gave a presentation of regulations and activities related to climate that will impact wastewater treatment agencies. The Powerpoint file of the presentation is included with these minutes.

**08-3.2 Alternative Energy Projects**

EBMUD. Their waste-to-energy project has doubled their digester gas production. They now receive approximately 150,000 gpd of high strength waste. Food wastes are one of the better waste products since they are over 90% organic, and are digested to produce mostly digester gas with relatively few solids.

USD. Will proceed with a 2.4 mW fuel cell project. It needs to be completed within 18 months to receive the anticipated state grant. They produce enough digester gas to produce about 1.7 mW of electricity, and will need to supplement this with natural gas to meet the fuel cell capacity.

FSSD. Wind turbines have been installed. They should start up soon.

Mick noted that he installed Solar Bees for pond mixing while at Rancho Murietta, and the payback in energy savings was only 18 months.

**08-3.3 USD PRI-SC System**

Dave Livingston distributed a handout that describes their peroxide regenerated iron sulfide system to control odors in their force mains and treatment plant. This is a proprietary system by Siemens/US Peroxide. After testing peroxide injection at several locations, they now just add it at the plant headworks. It costs about \$500,000 per year, which is slightly more than ferrous chloride injection alone; however the odor control is much better. They are currently dosing ferrous at 18 mg/l at their Irvington Pump Station, which is sufficient to reduce the H<sub>2</sub>S content in the digester gas to about 80 mg/l. They have noticed a 40% improvement in SS removal in the primaries with the system, with effluent concentration decreasing from 120 to 80 mg/l. There has been no change in BOD removal by the primaries. Before using the peroxide to regenerate the ferrous, they were dosing at 36 mg/l ferrous. At this high dosage, their centrifuge cake solids increased to 28-29%. The cake solids are about 26% with the current 18 mg/l ferrous dosage.

CMSA is using a similar approach with the Bioxide system, which consists of calcium nitrate addition in the collection system and peroxide at the plant.

EBMUD has had recent success with an odor control product by Polidyne.

#### **08-3.4 Solids Disposal**

EBMUD. Next year they project that their cost for ADC at the Altamount Landfill will be equivalent to their cost of land application in Merced. They have a contract with Synagro for hauling and disposal, with a minimum of 20% of the sludge being land applied. The cost of hauling is approximately \$30/ton.

SRWTP. They first store sludge in storage basins that they dredge and then land apply the sludge on their dedicated on-site land. Their land disposal site is lined.

CMSA. For 7 months they land apply sludge on a site off Lakeview Highway. For 5 months the sludge is used as ADC in Novato. Their contract hauler is TWS, and they are unaware of any competing hauler. It costs about \$27/ton to dewater their sludge.

FSSD. Sludge is disposed of as ADC at the Potrero Landfill. The landfill is seeking approval to expand since it may run out of capacity within 5 years.

USD. Contract with Synagro for hauling 100% of their sludge for beneficial reuse. The cost is \$45/ton for Class A disposal; \$30/ton for Class B. They have a fuel surcharge in their contract. Their dewatering and disposal cost was \$202 and \$207/ton in 2007 and 2008 respectively. Their polymer dose for dewatering has been about 25#/DT.

CCCSD. They dispose of their ash at Scott Soil, which takes it for free and mixes it with manure for sale as fertilizer. Their hauling cost is about \$28/ton.

#### **08-3.5 Transition Issues at Shift Turnover**



Linda S. Adams  
Secretary for  
Environmental Protection



Arnold Schwarzenegger  
Governor

The group discussed how each addresses the challenge of transferring information from one shift to the next. Shift schedules, shift overlap, and lunch integration into schedules were discussed.

### **08-3.6 Chlorine Residual Rule**

Dave Frietas noted that he has not heard anything further on the proposed strict requirements that the RWQCB was previously considering for chlorine residual. Dave Livingston will contact Chuck Weir to see if he has heard anything about this.

#### **ACTION ITEMS**

- Dave Frietas to email the Climate Change presentation to Mike
- Mike B. to distribute the chemical commodity spreadsheet to request updates after including the recent updates from FSSD and USD.
- Dave Livingston will contact Chuck Weir to see if he has heard anything about the chlorine residual rule.

#### **NEXT MEETING SUGGESTION ITEMS**

- Grease to Power, grease to energy projects (SD 8/08)
- Screw Press projects (FSSD, Sausalito Marin City Sanitary District)
- Digester Cleaning
- Spill reporting (Dale email of 3/7/08)
- Impacts of water conservation (MP 7/07)
- Others?

#### **NEXT MEETING**

- February 25, 2009 at CCCSD