

East Bay Municipal Utility District Oakland, California

I. Respondent: Jim Smith, Superintendent of Water Treatment

II. Treatment Plant Characteristics:

Water Treatment
1,300,000 people served
1,750 employees

III. Innovation:

A. Description

East Bay Municipal Utilities District (EBMUD) installed an Aqua Metrology Systems THM-100 on-line THM in March 2013. It was installed at the Orinda WTP since this plant receives raw water from all three Mokelumne Aqueducts and the Briones Reservoir. The data from the analyzer is on-line so staff can compare how raw water changes and process changes at the plants impact THMs. The EBMUD goal is to never exceed a TTHM of 40 ppb, which is half the MCL.

B. Type of Innovations

New on-line water quality instrument

C. Motivation for Innovations

To decrease disinfection by-products

D. Barriers/Challenges

The ASM THM-100 is a new technology and EBMUD ran a 90-day trial with multiple split samples before it purchased the unit.

E. Benefits

EBMUD has a better understanding of how changes in source waters and process changes at the plant impact disinfection by-products.

F. Lessons Learned

With any new piece of equipment, it is helpful to run a 90-day trial before purchasing.

IV. Information Sharing:	Yes	No
Willing to host on-site tour		X
Willing to visit another regional water/wastewater facility to provide presentation on innovation		X
Willing for staff member from other utility to conduct a follow-up visit to learn more about innovations	X	
Interested in on-line forum to discuss water/recycling/wastewater treatment issues		X