

## DC Water's Biosolids Management Program

Tuesday, January 28, 2014

Hilton Arlington

950 North Stafford Street, Arlington, VA (by Ballston Station on the Orange Line)

Registration opens at **6 PM**; Plated dinner will be served at **6:45 PM**; Adjourn by **8:30 PM**.

DC Water is doing its part to help protect the Chesapeake Bay through a new Biosolids Management Program (BMP) currently underway at the Blue Plains Advanced Wastewater Treatment Plant. The BMP is part of DC Water's ten-year \$3.8 billion Capital Improvement Program. The Blue Plains plant is the largest of its kind in the world, serving over two million residents of Washington DC, Maryland, and Virginia.

The BMP will help achieve DC Water's goal of lowering operating costs, improving energy efficiency, and reducing its carbon footprint. One major component of the BMP, the Main Process Train, will be the largest thermal hydrolysis plant in the world.

The renovations to the Blue Plains Plant will bring about several significant benefits through reducing the quantity and improving the quality of the biosolids produced. The type of biosolids generated will have relatively fewer restrictions on land application and can be bagged and sold to the public as fertilizer. The hauling of biosolids, currently at 65 truck loads per day, will be cut in half. The biogas produced will generate 8-10 megawatts of power, sufficient to power one-third of the total energy used at Blue Plains.

The improvements to DC Water's facility reach far beyond its own walls. The residents of Washington DC and other surrounding areas will save \$20 million annually from decreasing power use and sludge disposal. Greenhouse gas emissions will be reduced by 40 percent, between the combination of reduced biosolids production and energy production. Finally, the new MPT will permit additional capacity in the future, allowing future growth that is simpler and sustainable.



Fig. 1: Blue Plains Advanced Wastewater Treatment Plant aside the Potomac River

### Speakers:

**Brent Christ** is the Construction Supervisor for DC Water and will provide insight on the project's background and its drivers; **Dave Schwartz**, VP of CDM Smith and Project Manager for the PC/CDM Joint Venture, will discuss the design-build process; and **Peter Loomis**, also of CDM Smith, and design manager for the MPT project, will discuss technical aspects of the project.

### Registration:

Please register by **January 15, 2014** by visiting <http://state.awra.org/natcap/events.html> or send an email to Jason at [natcapawra@gmail.com](mailto:natcapawra@gmail.com). Discounts are available to AWRA-NCR Section members and students who register by Wednesday, January 15<sup>th</sup>. Early registration is \$45 for members and \$15 for students (limited to 10 at this price). The cost is \$55 for non-members as well as all walk-ins (pending availability).

\*This is a joint meeting with the American Society of Civil Engineers' National Capital Section. Look for more details about this project in their January newsletter at [www.asce-ncs.org](http://www.asce-ncs.org).

And don't forget to mark on your calendars AWRA-NCR's next event:

**2<sup>nd</sup> Annual AWRA-NCR Water Resources Symposium \* April 4, 2014 \* University of the District of Columbia**

For Symposium details and registration information, visit our website at <http://state.awra.org/natcap/events.html>