# PISCATAWAY BIOENERGY PROJECT UPDATE

# SUMMER 2021 NEWSLETTER





# **Progress Taking Shape: Sidestream Deammonification Tanks Constructed**

The sidestream deammonification tank is the next major concrete structure taking shape on the Piscataway Bio-Energy Project. Deammonification will be a critical component of the bio-energy process and treats ammonia-rich waste before it is returned to the head of the plant for further treatment.

Work on this tank began in January 2021 at the Dutchland's Gap, Pennsylvania facility where crews poured and cured precast panels for the tank. The panels were then trucked to WSSC Water's Piscataway Water Resource Recovery Facility (WRRF) for installation, after the base slabs were placed and cured on site.

Crews have been on site since late April 2021 constructing this tank. Here is a snapshot of their work:

## **APRIL 2021**

#### **JUNE 2021**

Poured three base slabs, each sitting on a different elevation.

Began constructing the 89 wall panels that form the tank as well as the 30 additional beams, walkways, roofs and floor panels. Once all panels have been built, large steel tendons will be pulled through the panels and tensioned to ensure structural integrity and watertightness.

## **AUGUST 2021**

The sidestream deammonification tank will be completed and ready for a watertightness test.



## What is deammonification?

Deammonification is a nitrogen removal process that treats wastewater that has high levels of ammonia. A growing number of WRRFs are using deammonification because it is a more sustainable energy option. Ammonia is a form of nitrogen and can be introduced to wastewater through stormwater or agricultural runoff. Water quality suffers if ammonia is not removed from wastewater before it is cleaned and returned to a water body.







# The Piscataway Bioenergy Team

Your WSSC Water Piscataway Bioenergy Team includes PC Construction, Design-Builder, Stantec/Hazen, Lead Engineers, and HDR Engineering, Program Managers.

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