PISCATAWAY BIOENERGY PROJECT UPDATE

FALL 2021 NEWSLETTER



The WSSC Piscataway Bioenergy project reached another milestone with the construction of the solids building. The 12,400-square foot building will house both the pre-and post-dewatering presses, chemical storage tanks, a laboratory and electrical and control rooms. Work is nearing completion on two 1.5 million gallon anaerobic digesters, which were highlighted in previous project updates. These digesters are a key component in our ability to produce bioenergy and critical to making our next chapter of technology and sustainability a reality. These tanks have been coated and are currently undergoing leak testing for manufacturer certification.

The thermal hydrolysis pretreatment (THP) process is a new technology that allows WSSC to process its solid waste into a biosolid free of pathogens. Nine trucks delivered the system components over three days in July. The specialized crew constructed several tanks along with walkway platforms and piping connecting the system. Additional THP components will be delivered and installed later this year to ensure continuous operation during maintenance and inspection periods.

What is thermal hydrolysis pretreatment (THP)?

Thermal hydrolysis pretreatment is a process similar to pressure cooking that uses high temperatures to break down solids and remove pathogens during the wastewater treatment process. Thermal hydrolysis pretreatment makes the solids digestion process within the digester tanks more efficient.





Since our last update:



Digester structures installed and coated; leak testing is underway



Air piping is being installed into the sidestream tanks now that leak tests are complete



Solids building fully constructed

Gas treatment area under construction

What's next at the Piscataway WRRF?

- Complete installation inside of the Digester Control Building
- Complete duct banks to install power and controls wiring
- Finish roofing on the newly installed precast facilities
- Start interior piping for chemical and process support
- Complete earthwork grading around new structures

PROJECT TIMELINE



PLANNING Completed June 2018

DESIGN Completed February 2020

DEMOLITION AND UTILITY RELOCATION Completed December 2020

CONSTRUCTION Underway – 36% Complete Began June 2020

TESTING Underway

COMPLETION Late 2024

The Piscataway Bioenergy Team

Your WSSC Water Piscataway Bioenergy Team includes:



www.wsscwater.com/bioenergy