



CITY OF EDMONDS

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WASTEWATER TREATMENT PLANT

200 2ND AVENUE SO. • EDMONDS, WA 98020
(425) 771-0237 • FAX (425) 771-0255

MIKE NELSON
MAYOR

August 2023

Subject: Carbon Recovery Project; Update #11

The Project

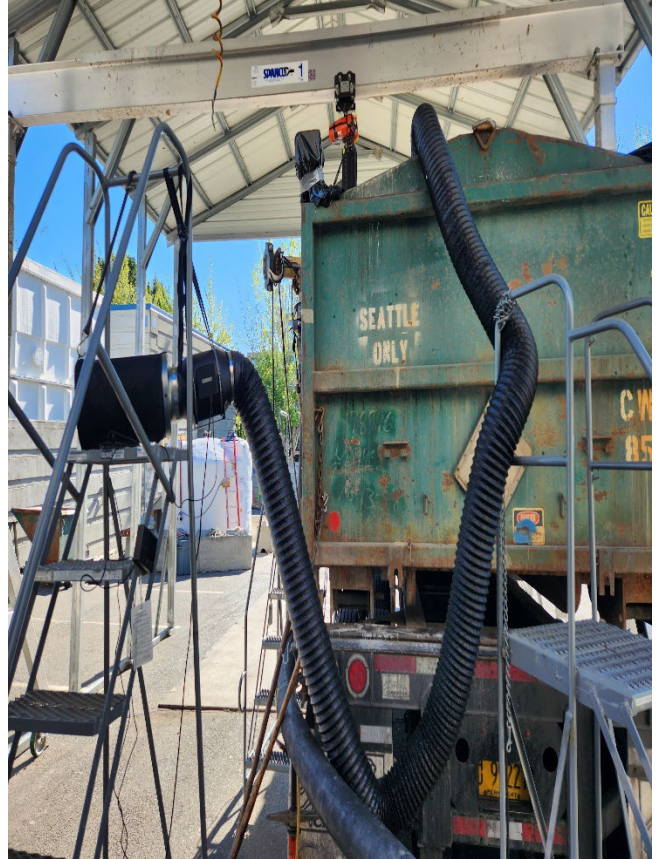
The Project's scope is to replace the City's existing solids handling system (incineration) with a new gasification system, upgrade ancillary components such as pumps and motors, and install odor control equipment. This phase of the project is complete.

The majority of construction was completed in April 2023, which allowed equipment startup and commissioning to commence. Commissioning is the process of operating / testing the system to verify that it performs as intended. The commissioning process started smoothly, but unfortunately the Design-Builder discovered multiple design issues, including one with the end-product conveyance system. These issues temporarily stopped the commissioning process. Fortunately, the Design-Builder has developed solutions to resolve these issues. The previous method to convey the end-product involved mixing water with the end-product prior to pumping it into the collection container. The mixture proved to be too heavy for the pump and there is not enough space to install a larger pump. The Design-Builder has decided to eliminate the water, thereby reducing the weight of the end-product, and then blowing the dry end-product through a pipe/hose system into the collection container. As this new conveyance system is being installed the City will continue to haul sludge. The City was hoping to end sludge hauling soon, but it appears that hauling must continue through the summer.

It is expected that this new conveyance system will be installed and operational by August 28, 2023. After that, the Design-Builder will once again start the commissioning process. The commissioning process consists of several startup/shutdown sequences of the new system while the system is being calibrated. The potential for noticeable smoke during the startup process exists and may occur; this is normal as the Design-Builder calibrates all the settings for the process. Once commissioning is complete the system is expected to have negligible or no smoke noticeable during start up.

Odor & Hauling

We hope to suspend sludge hauling for a period of time at the end of August when the dryer/gasifier are once again started up. Hauling may resume for short periods of time to allow the Design-Builder to correct any operational problems encountered with the dryer/gasification startup process. We are doing everything we can to mitigate unpleasant odors including the application of a biological odor reducing agent to the sludge before it is pumped into the containers and covering the sludge container while it is being filled as well as while it awaits pickup. We have also recently purchased a portable carbon scrubber unit that we leave on overnight in the trailer loading area to help filter foul air emanating from the trailer area.



Carbon Filtration at Sludge Hauling Container

Schedule

2022				2023				2024	
Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2
Construction									
				Commissioning					
							Measure & Verification		

Please feel free to contact me or Michael Derrick here at the treatment plant if you have other questions. We will be happy to discuss the project with you.

Ross.hahn@edmondswa.gov

Michael.derrick@edmondswa.gov

Yours truly,
 Ross Hahn
 Plant Manager,
 City of Edmonds Wastewater Treatment Plant