

Wastewater Facility Update

December 1, 2016





Secondary Clarifiers – 11/9/2016

Forming and pouring of the secondary clarifiers took place one quarter at a time.



Process Bldg. – 11/9/2016

The roofing contractor was onsite from 11/7 – 11/11/16 to button up three roof sections in preparation for winter weather.



Filter Bypass Splitter – 11/9/16

Ironworkers from Chilstrom are busy tying rebar in preparation for pouring the walls. This structure will allow for the diversion of flow away from the filter cells if flow rates exceed filter capacity.



Filter Bypass Splitter – 11/29/16

The larger diameter pipe directs flow to the filter cells under normal conditions while the smaller pipe directs flow downstream of the filters so it can receive disinfection and aeration during high flow events.



Secondary Clarifiers – 11/14/2016

Contractors backfill in lifts to make sure there will be no issues with settlement at any point in the future. Material type is monitored continuously by the resident engineer.



Future Aeration Basin – 11/15/2016

The tank shown is currently used as a secondary clarifier. It will be repurposed as an aeration basin during this upgrade. This design saves additional cost that would have been necessary to construct larger basins.



Mixed Liquor Diversion Box – 11/16/2016

The picture above provides an example of the amount and size (42") of pipe that is necessary in order to provide flexibility in the treatment process.



Digester Bldg. – 11/16/2016

The motor control center (MCC) shown will eventually be replaced. Electricians are busy running conduit preparing for the new MCC.



Process Building - Electrical Room, 11/29/2016

Painters have been onsite since 11/15. First the building was heated to properly dry the masonry block. Then, a “block filler” or primer was applied in preparation for two final coats.



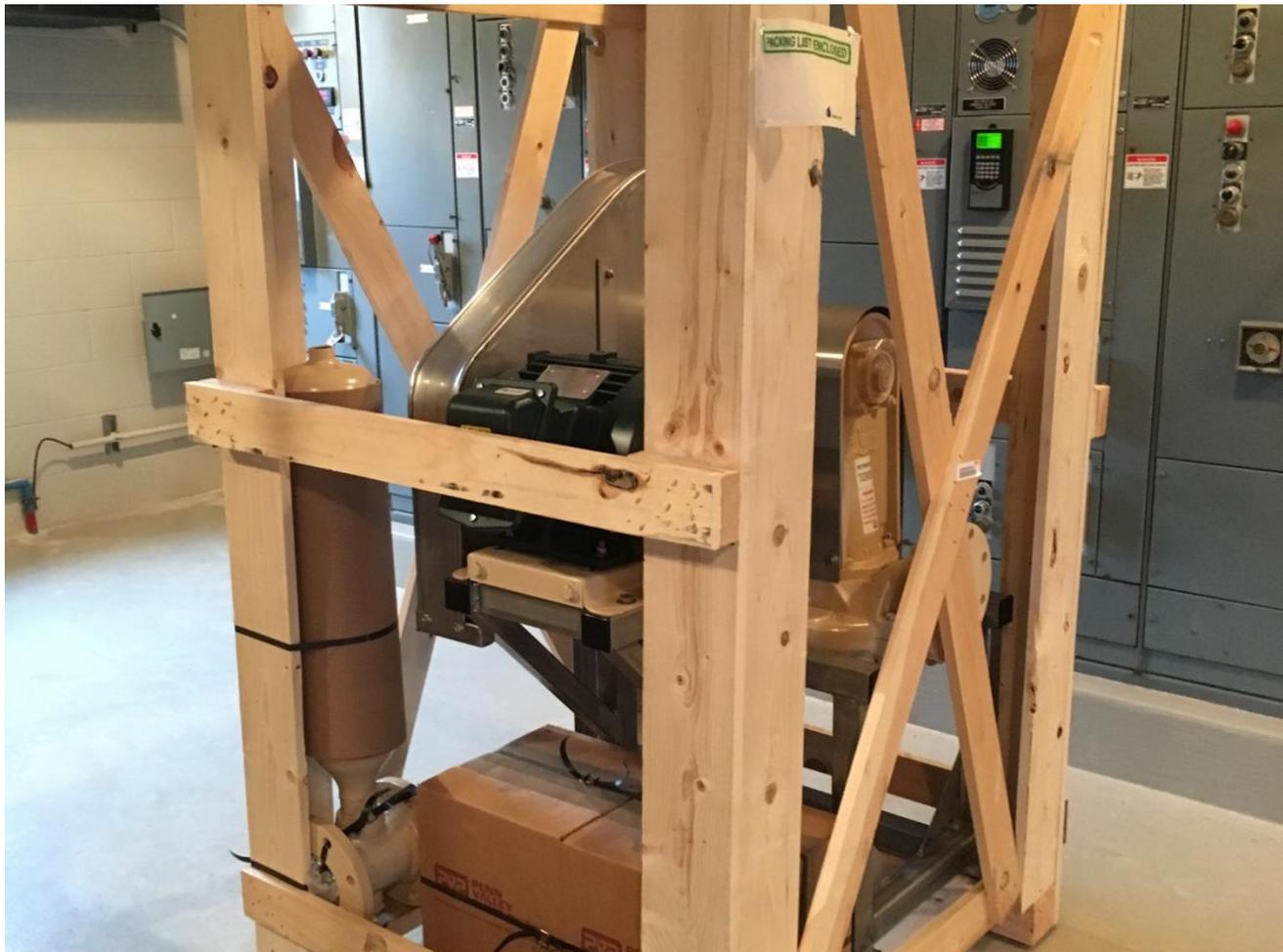
Aeration Basins – 11/30/2016

This overview shows the construction of the primary splitter box as well as the arrangement used to pump water in between tanks for leak testing.



Aeration Basins – 12/1/2016

The majority of the concrete has been poured for the aeration basins. However, rebar shown will tie into flow channels and walkways that are yet to be poured.



Future Primary Pumps – 11/30/2016

Equipment continues to be delivered as submittals are reviewed and approved. The utility was able to trial this exact style and brand of pump over the last 12 months to verify it would perform as necessary.



N. Secondary Clarifier – 12/1/2016

Leak testing has been completed in the selector and aeration tanks along with one secondary clarifier tank. Tanks cannot lose more than $1/10^{\text{th}}$ of 1% by volume or have visible exterior leaks.