



Polson Water Resource Recovery Facility

Construction Progress Report

(November 2017)

TO: Mark Shrives, City Manager
106 First Street East
City of Polson, MT 59860

CC: Polson City Council
Ashley Walker, W/S Superintendent

FROM: Kevin Johnson, P.E.
Project Manager – DOWL

DATE: November 30, 2017

This construction progress report includes work for the month of November 2017.

Headworks Building: The upper concrete floor slabs were completed this month and the masonry walls are now completed. The propane tanks for this building were also set over the concrete pad and are ready for use with temporary heating equipment. The roof trusses are set and the roof sheeting is in process to provide a dried in building to continue with interior building and process plumbing, electrical, and HVAC work in both the upper and lower levels of this building. See Figures 1 and 2.

SBR Tanks: Three more concrete pours were completed on the SBR tanks such that only the center section of the south wall remains. The SBR concrete should be complete within the next two weeks. The structural steel walkways and supports can proceed on the SBR basins but not much else until backfill can be placed around the tanks. This cannot happen until the basins pass a leak test. Therefore, the work on the SBR may slow on account of the winter temperatures not conducive to leak testing. See Figures 3 and 4.

UV Building: The lowest concrete floor slab and walls of the lower valve and piping gallery are completed. The floor of the post equalization basin tank will be excavated and formed next, followed by the walls of this tank. As with the SBR tanks, the post equalization tank must pass a leak test before backfill can be completed around the tanks. See Figures 5 and 6.

Control Building: The roof decking is completed on this building and interior wall framing of the upper level is in place. Rough in for the heating and ventilation equipment and

roof openings is in process. The building mechanical, electrical and plumbing work will be ongoing in this building not that the building can be enclosed and heated. Further, the process mechanical piping and equipment in the basement will begin over the next month. See Figure 7.

Yard Piping: Utility water, chemical feed conduits and electrical conduit installation along the east access road and existing dike progressed between the control building and the existing blower building. See Photo 8.

Digesters: Little work was completed on the digester tanks this month. Both tanks are now empty and mitigation work continues on the few remaining areas where seepage was still occurring. The contractor will address these seeps from the inside of the tanks and later refill the tanks to again check for any further seeps. This work is weather/temperature dependent and cannot proceed while freezing temperatures prevail and/or if provisions for temporary heating become impractical.

Misc. – Equipment Delivery

Fluidyne, Inc. is scheduled to make a final delivery in December for the process aeration blowers and control panels. The control building is now dried in and will allow for unloading of the aeration equipment directly into the control building where they will be permanently installed.

Huber Technology will have a final equipment delivery of electrical panels in March, as was arranged with Swank Enterprises at the beginning of the construction project.

Schedule

Two of the three buildings are dried in to allow for work to proceed inside, and the concrete work on the post equalization basin and SBR tanks can proceed under colder conditions. Therefore, at this time we do not anticipate an extended shut down on account of weather. If one of the critical paths for the project cannot proceed on account of cold temperatures the contractor may request such a work suspension for the City's consideration. There will likely be a short suspension between Christmas and New Year's Day.

Overall Project Status Summary:

Contract Time: 532 Days to Substantial Completion of Treatment Facility

Days Expended: 227 (To Nov 30); (43%)

Original Contract Amount: \$12,213,000

Change Order #1 \$29,087

Change Order #2 \$2,542 (Pending)

Current Contract Amount: \$12,244,629

Total To Date: \$4,781,187; (39%)

Figure 1 – Headworks Building – Upper Floor Slabs



Figure 2 – Headworks Building – Masonry and Roof Trusses



Figure 3 – SBR Tanks – Center Wall Pour (1 of 2)



Figure 4 – Support





Figure 7 – Control Building Roof and HVAC Equipment Provisions



Figure 8 – Water Lines & Electrical Conduit Runs