



Polson Water Resource Recovery Facility

Construction Progress Report

For Month of May 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: May 26, 2017

This construction progress report includes work starting on the date of the notice to proceed (April 17, 2017) through May 26.

The major work in progress includes foundation preparation for the aerobic digesters, control building and the sequencing batch reactor (SBR) tanks.

Preparatory Work: The wet spring conditions and existing native clay soils have slowed the start of the project as it related to earth moving and excavation within and around the existing lagoon cell #1. Work had to stop on multiple occasions to avoid doing more harm than good in regards to the excavation work. This has delayed progress on the initial foundation work but Swank Enterprises is working to adjust the work sequence to maintain the overall project schedule.

Digesters/Control Building: The foundation work for these structures included limited excavation below existing grades and installation of engineered aggregate piers to support these structures. After a slow start including multiple equipment breakdowns the pier subcontractor has installed approximately 250 of the 400 required piers. At a rate of approximately 25 per day, another one to two weeks will be required to complete these pier installations. Upon completion, a layer of compacted gravel will be placed over the piers and then the floor slab rebar and concrete forming of the digester can proceed.

SBR Excavation: As of May 23 the excavation of the SBR has reached the required bottom elevation. This work was halted for some time while the northeast corner of the existing lagoon was stabilized with shoring protection to prevent further sloughing of the existing embankment. The sheet pile shoring was completed May 22 allowing excavation for the SBR basins to continue to completion.

One Month Look Ahead:

Work over the next month will include completion of the engineered aggregate piers, completion of the SBR excavation, installation of structural fill foundation material for both the SBR and the digesters and initial concrete forming and rebar installation for these structures.



Figure 1 - Engineered Aggregate Pier Installation



Figure 2 - Engineered Aggregate Pier Installation



Figure 3 - SBR Basin Excavation



Figure 4 - Required Load Testing of Pier

Overall Project Status Summary:

Contract Time: 532 Days to Substantial Completion of Treatment Facility

Days Expended: 39

Total Contract Amount: \$12,213,000

Total To Date: \$650,000