



# Polson Water Resource Recovery Facility

## Construction Progress Report

(For Month of Sept 2018)

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**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:** Sept 30, 2018

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This construction progress report includes work for the month of September 2018.

### Headworks Building:

The roof is complete on this building. The only work remaining includes electrical supply to the building and completion of the boiler plumbing for the heating system. Final site grading has progressed in preparation to construct the road sections around this building.

### SBR Tanks:

The SBR inlet vault, process piping, and handrail is complete around this structure. Handrail and walkway platforms are complete across the length of the SBR and most of the handrail is complete on the south end of the tanks around the SBR and the outlet vault connected to SBR.

The equipment in the SBR is ready for checkout by the equipment manufacturer. The pumps, aeration headers, and decanters are complete. Electrical terminations and the respective electrical conduit runs are in process. See Figures 2, 3 and 4.

### UV Building & Post Equalization Tank:

The work in this building over the last month has included mostly electrical work and some final equipment installation for the UV disinfection system and the outlet control valve actuators. The south half of the roof was completed. See Figure 6. The buried electrical duct banks between the UV building, the main site switch gear and runs to the SBR and headworks building were nearly completed. See Figure 5.

### Control Building and Digesters:

The investigation of the settlement below the control building floor was completed in September as was the mud jacking to fill the void under this floor. Report of findings to the City

is forth coming. The pipe trenches leading under the building were excavated south of the building so trench plugs could be installed to eliminate this possible flow path of water under the building. The floor drain plumbing is under repair and the concrete floor will be repaired in the coming week or two.

The basement has been dry for over a month, and all process piping is completed and tested in the basement. The digesters will be refilled again as soon as possible to again check for leaks and verify water that was present in the basement before was not influenced by the water in the digesters.

The laboratory and office cabinet installation is in process.

Yard Piping & Earthwork:

The 24-inch effluent pipe to the river is complete. The Riverside Force Main flow meter vault is in place and ready for final connections to the existing system. Two more flow meter vaults are yet to be installed. These include the meter vault on the 7<sup>th</sup> Avenue Lift Station force main and the Ducharme Park Lift Station force main. The remaining yard piping also includes some gravity sewer drain pipe from the drying beds and the utility water line to the same. See Figures 1, 4, 7 and 8.

Final earthwork and grading of the site is in process. Installation of geotextile and gravel for the paved road areas will progress in the next few weeks along with final restoration of the overall site.

Overall Project Status Summary:

Contract Time: 573 Calendar Days to Substantial Completion of Treatment Facility

Days Expended: (543); (94.7%) (Sept 25, 2018)

|                           |                                   |
|---------------------------|-----------------------------------|
| Original Contract Amount: | \$12,213,000                      |
| Change Order #1           | \$29,087 (2 Calendar Days)        |
| Change Order #2           | \$2,542                           |
| Change Order #3           | \$25,004                          |
| Change Order #4           | \$223,210 (15 Calendar Days)      |
| Change Order #5           | \$50,956 (1 Calendar Day)         |
| <u>Change Order #6</u>    | <u>\$55,996 (4 Calendar Days)</u> |
| Current Contract Amount:  | \$12,599,795                      |

Total To Date: \$10,742,340; (85.3%)



Figure 1 - Riverside Lift Station; Flow Meter Manhole (1 of 3 vaults)



Figure 2 - SBR Inlet Vault; Flow Control Valve Housing



Figure 3 - Process Piping Inside SBR Inlet Vault



Figure 4 - Influent Pipe Connection to SBR Inlet Vault



Figure 5 - Electrical Duct Banks; Concrete Encased



Figure 6 - UV Building - Roof Complete





Figure 7 - 24" Effluent Pipe to River



Figure 8 - Temporary Pipe Support; 24" Eff. Pipe Below