

***City of Gooding
Wastewater Treatment Plant
Progress Report
October – November 2018***



Progress Report

The purpose of this report is to provide an update on the status of the Wastewater Treatment Plant (WWTP) Design. The schedule and financial data reflect the standing of the project as of the end of October.

Pre-Design Activity for October – November

- **Wastewater Treatment Plant Predesign – Preliminary Engineering Report**
 - Keller Associates is preparing a Preliminary Engineering Report (PER) that includes predesign of the new WWTP.
 - To complete the PER, inconsistency in the loading data (influent BOD₅ and TSS concentrations) needs to be resolved.
 - 2016 – 2017 sampling of wastewater influent into the headworks did not confirm the data collected in 2012 – 2015 (these data were used in the Wastewater Facilities Planning Study (WWFPS)). The results of the 2016 – 2017 sampling show spikes in influent BOD₅ and TSS concentrations. These high concentrations are very uncommon and are not representative of the wastewater influent composition in cities like Gooding (no large industries, mostly residential).
 - Keller Associates and the City continued to gather influent sampling data with the old and the new samplers.
- **Possible Causes of Spikes in BOD₅ and TSS Concentrations**
 - Return activated sludge (RAS) backs up into the sampling channel when the influent flows are low.
 - It is possible that during low flows, the sampler tube is sampling from the channel bottom lined with sediment.
 - Other possible interferences for the old/existing sampler:
 - Decant from the drying beds
 - Backup from the Oxidation Ditch
 - Discharge from septic trucks
 - Possible interferences for the new sampler located immediately after the screen:
 - Screen wash/compactor fluid discharging where sampling occurs
 - Discharge from septic trucks
 - Possible explanation of high influent concentrations in winter of 2016-2017:
 - City of Bliss emergency wastewater hauling to Gooding WWTP.
- **Surveying**
 - Surveying at the location of the new WWTP is 80% complete.
- **Geotechnical Investigation**
 - Geotechnical evaluation of the site is underway.

Scheduled Activity for November and December

- **Preliminary Engineering Report (PER)**
 - Keller Associates and the City continue to gather influent sampling data with the old and the new samplers.
 - Keller Associates will continue to prepare the PER.
 - Keller Associates will form cost estimates and base conclusions for wastewater treatment equipment outlined in the PER.
 - Keller Associates will provide draft copy to City Officials for review before submitting to Idaho DEQ for comment.
- **Wastewater Influent Sampling**
 - Move the new sampler upstream of the screen; place it immediately after the influent manhole in the headworks.
 - Flow pace sampling with the old sampler, if possible.
 - Alternatively, collect 12-hour composite samples avoiding sampling during low flows.

Keller and City Coordination Items

- Ongoing communication regarding sampling and other information pertinent for the PER.

Contract Status – WWTP Design and Construction

Contract Time

Start of Contract Time November 16, 2017

Budget Status

As of October 31, 2018

Original Contract Amount	\$1,530,000.00
Keller Invoices #1 - #4	\$248,450.00
Remaining Contract Amount	\$1,281,550.00