



# City of Stevenson

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To: Stevenson City Council  
From: Carolyn Sourek, Public Works Director  
RE: Sewer Plant Update  
Meeting Date: September 15, 2022

## **Executive Summary:**

This is an overview of items staff has been working on over the past month in line with the direction council gave to staff.

## **Overview of Items:**

The plant continues to operate within its permit limits for total suspended solids (TSS), biochemical oxygen demand (BOD), and bacteria for its effluent. We had an exceedance for TSS in early July, which caused the July weekly average to exceed permit limits. This was due to the dewatering efforts as part of the 2021 Collection System Improvements Project. We reported to Ecology, who were appreciative of the notification and follow up Report to File.

The WWTP Plant Upgrade project is in full swing. They too experience dewatering challenges associated with a high water table. They are currently excavating for the Anoxic Basin. The City is receiving equipment previously contracted for this project. Fine bubble diffuser delivery may be postponed due to vendor administrative issues. The UV chamber rail was returned last week due to a warped vertical bar. The bolts for the Vertical mixers are backordered but should come in time for installation. The City has requested a price for the contractor to install new drain pumps in the WWTP drain pump station. One has failed completely, and the plant has rented a secondary submersible pump to act as back up if we lose the other pump. Additionally, associated check valves are being reviewed for replacement as part of this change order. This project received a schedule update that shows a revised completion date of Spring 2024 from Fall 2023. This schedule is currently being reviewed and has not been approved.

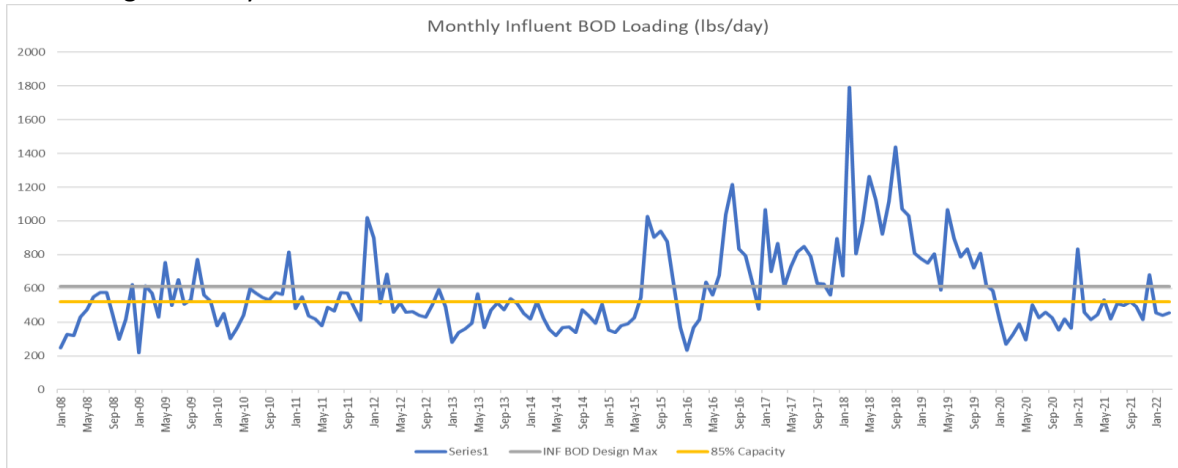
The 2021 Collection System Improvements Project is nearing completion. The interceptor laterals are being constructed this week and final concrete work and testing completed at the Rock Creek Pump Station. Final paving is schedule for the end of September and is the final item of work for completion.

The City and Wallis Engineering met with the PUD to discuss power needs at Kanaka, Cascade, and Fairgrounds pump stations. Cascade and Fairgrounds pump stations appear to continue to be fairly straight forward and no major design changes from 30 to 60% are proposed. The Kanaka pump station is located in an area with a major electrical junction box which will cause relocation of power and associated conduit potentially costing the project \$100-150k in electrical relocation alone. Additionally, we were informed that transformers continue to be an acquisition challenge, and could take 2-3 years from ordering to receipt.

Lastly, more koi fish were added to the north clarifier. The original fish have tripled or more in size over the summer. Note that the south clarifier was taken offline for cleaning.

**Plant Operations:**

The average monthly Influent BOD load since 2008 is in the chart below.



The current permit limit for Influent is 612 lbs/day and the current upgrades in the adopted General Sewer Plan call for a design max monthly BOD loading of 1,611 lbs/day.

**Funding:**

The \$2.5M in direct federal appropriations requested spring of 2021 is approved with the process being clarified this fall. The breakdown on all funding received for the project to date is below.

	Budget	Loan	Forgivable Principal	Grant
WW Upgrades Design	2,000,000	960,000	400,000	
WW Collection System Upgrades	5,100,000	873,000		4,125,000
WW Treatment Plant Construction	9,600,000	8,700,000	900,000	2,500,000*
Main D Extension	300,000	270,000	30,000	
<b>Totals:</b>	<b>17,000,000</b>	<b>10,803,000</b>	<b>1,330,000</b>	<b>6,625,000</b>
Amount of Funding:			42% Grant and Forgivable Principal	
*\$2.5M direct federal grant applied for to reduce the \$8.7M loan, or be applied to other WWTP phases				
Loan terms:	DOE Loan 1: 2.0% interest, 20-years, \$61k est. annual payment DOE Loan 2: 1.5% interest, 30-years, \$375k est. annual payment USDA Loan: 1.375% interest, 40-years, \$29k est. annual payment			

**Action Needed:**

None.