



City of Stevenson

Leana Kinley, City Administrator

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To: Stevenson City Council
From: Karl Russell, Public Works Director and Leana Kinley, City Administrator
RE: Sewer Plant Update
Meeting Date: June 18th, 2020

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:

Plant Operations: Through networking with the Department of Ecology, we have been put in contact with an individual that deciphers the microbiology of biosolids, Victor Cruz. He was willing to take a look at a sample that was taken from our oxidation ditch and give his opinion on what may be causing the lack of settling we are experiencing. Two types of filamentous bacteria were identified that are contributing to “bulking issues” (settling issues). We are currently following guidelines given by Victor Cruz and D.O.E. to remove/reduce these bacteria from our waste water treatment process. We started mitigation of these bacteria on 05/28. We have not seen any measurable results as of 06/11 but we don’t expect to see results right away. Results will vary depending on the number of bacteria and the amount of “food” in the system. The results of the examination are included in the council packet.

The plant continues to see marked improvement with the side streaming efforts of Backwoods Brewing, Walking Man and LDB, Inc. Walking Man has decided to temporarily halt brewing operations. They will evaluate whether to continue brewing in Stevenson, or arrange for some other option either off-site or contracted going forward.

The average monthly Influent BOD load has been:

2018

- January 675 lbs/day – No Effluent Violations
- February 1,793 lbs/day – No Effluent Violations
- March 1,099 lbs/day – BOD and TSS Effluent Violations
- April 991 lbs/day – BOD and TSS Effluent Violations
- May 1,265 lbs/day – BOD and TSS Effluent Violations
- June 1,124 lbs/day – No Effluent Violations
- July 920 lbs/day – Low pH Violation (one day)
- August 1,113 lbs/day – No Effluent Violations
- September 1,439 lbs/day – Low pH Violation (one day)
- October 1,072 lbs/day – No Effluent Violations
- November 1,032 lbs/day – No Effluent Violations
- December 807 lbs/day – No Effluent Violations

2019

- January 776 lbs/day – Solids washout from clarifiers on 29th and 30th, TSS and BOD Effluent Violations
- February 749 lbs/day – Solids washout from clarifiers on the 18th.
- March 803 lbs/day – Solids washout from clarifiers on March 13th, TSS Effluent Violation
- April 589 lbs/day – Solids washout from clarifiers on April 1st
- May 1,067 lbs/day – No Effluent Violations
- June 897 lbs/day – No Effluent Violations
- July 785 lbs/day – No Effluent Violations
- August 833 lbs/day – No Effluent Violations
- September 720 lbs/day – No Effluent Violations
- October 810 lbs/day – No Effluent Violations
- November 620 lbs/day – No Effluent Violations
- December 588 lbs/day- No Effluent Violations

2020

- January 417 lbs/day- No Effluent Violations
- February 270 lbs/day- No Influent/Effluent Violations Inf Flow Total 7.532 Mil/Gal.
- March 324 Lbs/day No Influent/Effluent Violations Inf Flow Total 4.223 Mil/Gal.
- April 389 Lbs/day No Influent/Effluent Violations, Inf Flow Total 3.852 Mil/Gal.
- June 295 Lbs/day No influent/Effluent Violations, Inf Flow Total 3.315 Mil/Gal.

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.

WWTP Design:

Final design of the WWTP will be delivered to D.O.E. in June of this year. D.O.E has 60 days to review and approve the design. We are currently at 50% design. 50% design for the Rock Creek Lift Station is complete and under review.

Funding:

Both applications for USDA and EDA for the lift station project are moving forward. The EDA application is in the final review process at the state level. Once complete it will move on to DC and we should have an answer in July. The total project amount is \$5,068,000 and 80% would be covered by the grant and the remaining 20% will be covered by a USDA loan. The city received and signed off on the Letter of Conditions and is awaiting final obligation of funds.

The Department of Ecology loan for the design of the upgrades expires on June 30, 2020. Our extension request has been approved and we are awaiting final paperwork for council approval.

Compliance:

The draft amendment to the Administrative Order is still in process. When it is finalized it will require additional testing.

The contracts with Significant Industrial Users are still in process. They have been reviewed and approved by Ecology. The contract with Backwoods is on the agenda for council approval.

Action Needed:

None