



Newsletter

February 2021

Hartstene Pointe Water-Sewer District

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Pay Your Bill 24/7

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Billing Office Hours

Mondays: 9:00 am—2:00 pm

Tuesdays: 9:00 am—2:00 pm

Thursdays: 9:00 am—2:00 pm

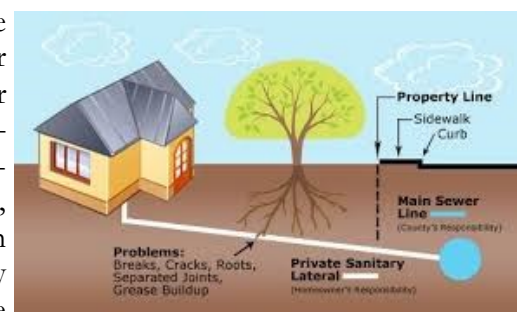
Board of Commissioners meetings are held on the 1st & 3rd Thursdays of the month at 1:00 pm in the District Office. All meetings are open to the public.

Hartstene Pointe Water-Sewer District is not associated with or governed by the Hartstene Pointe Maintenance Association. Please direct water-sewer service related questions to the District.

Hartstene Pointe Water-Sewer District is an equal opportunity provider and employer.

2021 Capital Improvements

2021 is an important year for Hartstene Pointe Water-Sewer District as this year marks the first step toward completing our 10-year underground infrastructure replacement project. As mentioned in past newsletters, this project will be completed in phases, beginning with a sewer collection system engineering report performed by Century West Engineering. This report will outline the scope of work to take place on the sewer collection system. To help lower overall costs, the District intends to perform all of the sewer lateral replacement in house which is expected to save an estimated \$3 million. After the worst of the laterals have been replaced, the sewer mains and manholes will be lined and rehabilitated. This project will add an additional 50 years of life to the sewer collection system and significantly reduce ground water infiltration, which continues to plague the District every year.



Water Line Replacement and Fiber Optic Internet



In 2022, the District will have Century West create an engineering report for the replacement of its water mains and laterals. These lines have all reached the end of their life spans and, much like the sewer laterals, are in need of replacement. During this stage of the 10-year capital improvement plan, the District will partner and coordinate with Mason PUD #3 to bring **Fiber Optic Internet Service** to every home within the community.

Great News about Huge Financial Savings!!

Initially, the District expected to be required to update both its sewer and water system plans prior to being eligible for outside funding. However, thanks to extensive investigation on the part of District staff, we now know that we will not have to update these plans in order to proceed with the project and procure funding. The District intends to solicit funding through USDA for both the initial planning and construction phases of this project.

Please stay tuned for more information by attending our regular board meetings via teleconference and through paying attention to our monthly newsletters.



Check out the District's new bulletin board for updates, located next to the sorting table in the mail room!

Interested in becoming a commissioner?

Positions #2 and #3 are up for election

Candidate filing open May 17-21



Contact the
Mason County Auditor's Office for
filing instructions and requirements

General Manager's Report



Rain, Rain & More Rain

January of 2021 was a challenging month for the District. Over the past 4 weeks we've recorded some of the highest flows I've ever witnessed coming into the wastewater treatment plant. The highest of which, 625,000 gallons, took place on Tuesday the 12th of January.

Jeff Palmer, my lead wastewater operator, and I spent the better part of 48 hours making sure none of our wastewater treatment basins overflowed. We narrowly avoided catastrophic failure the morning of the 13th as a brief power outage—in combination with the in-plant generator failing to run—put us at a high risk for total loss of the facility. Thankfully the power came back on in the nick of time and disaster was avoided.

As a result of the heavy rain, we expect to receive six daily flow violations (flows greater than 342,000 gallons per day), a violation of our monthly average effluent flow total (flows greater than 180,000 gallons per day) and a spill violation (30,550 gallons).

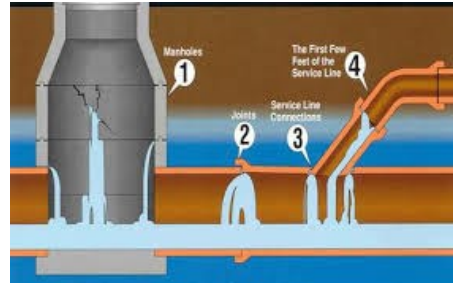
The spill violation occurred on January 12th because inflow exceeded outflow to such an extent that we had no other choice but to utilize an additional pump to help bring down the effluent channel levels to prevent overflow into the plant. This water was approximately 80% rain water and 20% treated effluent water. **It was NOT raw sewage**, but we did have to discharge a portion of effluent to the shoreline through a storm drain rather than the outfall line. This was a controlled spill, but still counts against us.

In conversations with the WA State Department of Ecology prior to pumping the effluent (treated wastewater) out to the beach area and it was agreed that there was no other option. Thankfully, beaches were already closed to shellfish harvesting, so there should be little to no long-term environmental impact.

What is Inflow & Infiltration and why does it matter?

Inflow & Infiltration (I&I) is when groundwater or rainwater makes its way into... *Continued on Next Column*

...our side sewers/lateral sewer lines. This water is an "uninvited guest" into the sewer collection system and adds to the overall flow to the wastewater treatment plant. This creates a number of problems, including the issues that we dealt with on the 12th and 13th of January.



Our Wastewater treatment plant is designed and permitted to process a maximum of 342,000 gallons of sewage per day. When flows exceed this number, our plant experiences bacterial "die-off" and "wash-away."

We rely on good bacteria to treat wastewater. Imagine a tsunami washing through a small town and you will have a good picture of how this impacts a treatment plant. Since we depend on these bacteria to break down the waste, losing them due to a high amount of inflow has potential to short circuit the wastewater treatment plant's natural process. This can result in removal violations and has potential to create displeasing or foul odors. Needless to say, this is something that we actively try to avoid through proper management and care. However, since we can't control the weather, we actively seek ways to reduce the annual load on the wastewater treatment plant through the reduction of Inflow and Infiltration (I&I).



At the bottom of the page is a graph that depicts the inflow verse rainfall for the month of January.

Thank you for your support and understanding as we endeavor to serve this amazing community.

- David Carnahan, General Manager

