

The Drain Report

Primary Clarifiers 3&4 Undergo Major Overhaul

Primary Clarifiers 3&4 were originally built in 1982 to provide additional treatment for a growing community. The clarifiers have served the community well and now it's time for an overhaul.

Each basin contains a flight scraper system that mechanically collects sludge and heavy materials at one end (sump) for removal and additional processing, while allowing the liquid stream and any suspended solids to pass through the clarifier for additional treatment. The existing flight scraper system contains fiberglass flights, HDPE drive chains, steel wheels, sprockets, and cogs, and mechanical drive motors to turn the cogs and operate the equipment.

Since the equipment has been in near constant operation since its installation in 1982, all of the mechanical equipment is at or near the end of its useful life. Furthermore, many of the individual components exhibit signs of wear, corrosion, and/or damage, and acquiring replacement components is becoming extremely difficult, time-consuming, and costly. The project has an estimated cost of \$2.5 million and a projected completion date of Fall 2024.

Rate Increase for 2024

Midway Sewer will have a rate increase for 2024. The current rate is \$34.00/month, and the rate in 2024 will be \$37.00/month. Midway Sewer bills on a 60-day billing cycle, so for our residential customers, the flat rate will go from \$68.00 to \$74.00 per billing period.

Our commercial customers are billed on water consumption. The rate will be \$.04933 per c.f. per billing period.

We have customers in the Cities of Des Moines, Kent, Burien and Federal Way, that are billed a Franchise Fee or Utility Tax in addition to the Midway Sewer rate.

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Special points of interest:

- Midway Sewer District has one of the lowest monthly rates in the state.
- The Board meets the 2nd and 4th Wednesday of each month. Please contact the office for the meeting time.
- Midway serves the Cities of Des Moines, SeaTac, Kent, Federal Way, Normandy park, Burien, and the Port of Seattle's SeaTac Airport.
- We have been part of this community since 1946.
- You can expect fast personal service when you need it.
- Our employees care about their customers.
- We have a single focus of providing quality sanitary sewer service.

Out With The Old And In With The New

By: Vine Koester



The Midway Sewer District is in the finishing stages of designing a replacement Ultraviolet Disinfection system (UV) to replace the previous UV system installed in 1998. Safe and environmentally friendly, UV is the most effective way to disinfect wastewater. It provides a broad spectrum protection against a wide range of pathogens, including bacteria, viruses and chlorine-resistant protozoa.

UV disinfection is a physical process that instantaneously neutralizes microorganisms as they pass by UV lamps submerged in the effluent. The process adds nothing to the water but UV light and, therefore, has no impact on the chemical composition or the dissolved oxygen content of the water. The inherent safety benefits also are among the reasons why a growing number of wastewater treatment plants in North America now utilize UV disinfection systems instead of chlorine.

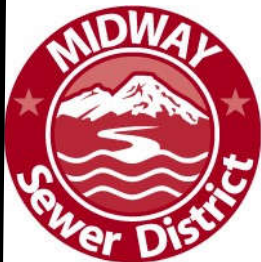
Now for the upgrade.

The replacement system was designed to fit into existing channels and chlorine, all without major modifications to the channel depth or width; this is a huge benefit for the district. The new UV system will be significantly more energy efficient with the bulbs having a longer life cycle. The new UV System was also designed to make the operator's job easier. Lamp change-outs and cleaning solution replacement are done while the UV banks are in the channel.

The project has an estimated cost of \$6 million and a projected completion date of fall 2024.



Board of Commissioners



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