

Olympic Water and Sewer, Inc. 2024 Annual Townhall Meeting

Follow-ups, Highlights, & 2025 Forecast

October 31, 2024

Meeting Outline

- Welcome and Introductions
 - Port Ludlow Village Council – Utility Committee (PLVC-UC)
 - Olympic Water & Sewer, Inc. (OWSI)
 - Port Ludlow Associates (PLA)
- Follow-ups
 - Water System Plan
 - Water Use Efficiency
 - Discolored Water
 - Flushing
 - Pigging
- 2024 Highlights
 - Sanitary Survey
 - Lead Line Inventory
 - WWTP Performance Award
 - Collection System Annual Cleaning
 - Capitals
 - Certifications/Apprenticeship
- 2025 Forecast
 - Capitals/R&M
 - Washington Utilities & Transportation Commission (WUTC) Rate Case
 - Wastewater Treatment Plant (WWTP) & Lift Stations
 - Shellfish Proposal
- Questions

Water System Plan (WSP)

- Submitted to Washington Department of Health (DOH) in May 2024
 - go to review.
 - Share with other regulatory agencies for comment.
 - Punchlist of items to address.
- HDR & OWSI currently preparing second submittal.

Water Use Efficiency (WUE) – Set Goals @ Townhall 2023

- Prior goals
 - Maintain leakage at <10% of production
 - Maintain average day single-family use (ERU) at <185 gpd/ERU
 - New goals
 - Maintain leakage at <9% of production
 - Maintain average day single-family use (ERU) at <170 gpd/ERU
 - Recent trends
 - Leakage
 - Currently at 9.4%
 - Water use per ERU
 - 1999-2004: 185 gpd/ERU
 - 2007-2012: 160 gpd/ERU
 - 2013-2022: 155 gpd/ERU
- Future projections assume 175 gpd/ERU (to be conservative, for capacity planning purposes)

Water Use Efficiency (WUE)

- 2024
 - Decrease in metered sales
 - System loss (leakage or unaccounted water) currently 2024 average of 6.7%

Discolored Water

- Causes
 - Iron & Manganese Historical Deposits
 - Changes in water chemistry.
- Concern
 - Contaminant MCLs
 - Health Impacts of High Doses of Manganese
- PLVC Utility Committee Independent Study
 - Findings

Manganese

Manganese Levels of Concern in Drinking Water

In 2004, EPA set health advice for manganese in drinking water to keep people safe (0.3 mg/L) and a lower aesthetic standard (0.05 mg/L) to prevent staining and a bad smell or taste in the water. Both standards are voluntary, and it's up to individual water systems to test for or treat manganese in drinking water. The table below shows health advice and aesthetic standards set for manganese by various agencies.

Manganese concentration	Recommendation / Action Levels
0.02 mg/L	ODW (2023) recommends water systems maintain this level or less at entry point to the water distribution system after treatment.
0.05 mg/L	ODW (2023) recommends treatment for manganese removal at levels greater than 0.05 mg/L. EPA Secondary Maximum Contaminant Level (SCML) based on aesthetic effects.
0.08 mg/L	World Health Organization (2021) provisional health-based guidance value for bottle fed infants. Also protective of the general population.
0.1 mg/L	Minnesota Dept of Health (2018) recommended limit for water fed to infants during their first 12 months of life. This is health-based advice to protect infants from learning and behavioral problems.
0.12 mg/L	Health Canada (2019) maximum acceptable concentration (MAC) for drinking water. Set to protect infants, also protective of the general population.
0.3 mg/L	EPA Health Advisory Level (2004): <ul style="list-style-type: none">• Applies to short-term consumption (10 days) for infants less than 6 months old.• Applies to lifetime consumption for general population. ODW recommends that water systems issue public notice to users when manganese level in drinking water is above this level.
1.0 mg/L	EPA Health Advisory Level (2004) for short-term exposure (10 days) for children 6 months and older and for adults.

Discolored Water

- Treatment
 - Flushing via Fire Hydrants
 - Unilateral directional flushing.
 - Ice Pigging
 - American Pipeline Solutions
 - Ice Pigging Surcharge
 - \$325,000 estimate with a 30/70 split
 - Estimated surcharge to recover \$227,500 in one year.
 - Monthly surcharge would be \$10.71. Your Bi-monthly billing would show \$21.41 per household



ICE PIGGING

AMERICAN PIPELINE SOLUTIONS

84 Johnson Avenue, Suite A
Hackensack, New Jersey 07601-4824
201-525-0088

www.americanpipelinesolutions.com

Re: Ice Pigging – Port Ludlow Water Distribution System

Our Ref: APS-IP-194

Thank you for the opportunity to provide you with pricing for performing ice pigging to clean the North & South sections of the water distribution system at Port Ludlow, WA.

Pricing is based upon the information that you (Owner) provided to American Pipeline Solutions, Inc. (APS), it is inclusive of a one-day (500 mile) mobilization and assumes the project will take place in 2025. The prevailing wage category that applies to this project is **to be determined and may affect this price.**

The water network is approximately, **104,000 LF of 6, 8, 10 & 12-inch AC pipe.**

The primary goal of this project is to remove the sedimentation that has been deposited within the pipeline.

Based on the data provided, APS estimates this project will take approximately **twenty full loads** (10-ton capacity) of ice to complete the cleaning of this network. **(To be confirmed following closer inspection of the water network data and maps).**

APS's estimate total price for the above referenced project is; **\$315,107** *pre sales tax

Additional loads = \$14,000 per load.

Example of Ice Pigging Samples



Example of Ice Pigging Samples



2024 Highlights

- Sanitary Survey
- Lead Line Inventory
- WWTP Performance Award
- Collection System Annual Cleaning
- Capitals
- Certifications & Apprenticeship

Sanitary Survey & Lead Line Inventory

- Sanitary Survey w/ Dept. of Health Regional Engineer
 - No significant findings.
 - Suggestion for telemetry on reservoirs A&C.
 - 5 year waiver.
- Lead Line Inventory
 - No lead service lines or pigtails found during inventory.
 - Individual letters to all lot owners.
 - Meter replacement and backfills almost complete.

Wastewater Treatment Plant (WWTP) Performance

- Department of Ecology
 - Outstanding Performance Award
 - 1999, 2001, 2002, 2003, 2004, 2007, 2008, 2012, 2018, 2019
 - 2023!
- OWSI Performance Goals
 - Laboratory Accreditation
 - Outstanding performance for consecutive years.



Collection System

- Completed 1/5th of the system annual cleaning
 - On track to jet all of the sewer mains every five years.
 - Found four manholes needing serious repair.
 - Found one large root intrusion.
- Lift Station #11
 - Fully operational.
 - Awaiting final L&I inspection.

Capital Spending 2024

- Water
 - Walden Booster Pump
 - Excavator & Triple Axle Trailer
- Sewer
 - Camera System
 - LS#8
 - WWTP Instrumentation
 - YSI Sensor Net
 - Dissolved Oxygen Probes

Operator Certifications

- Washington Department of Health (DOH) Certifications
 - Water Treatment Plant Operator-WTPO
 - Water Distribution Manager-WDM
 - Cross-Connection Control Specialist-CCS
- Washington Department of Ecology (DOE) Certifications
 - Wastewater Treatment Plant Operator-WWTPO



Apprenticeship Program

- Evergreen Rural Water of Washington (ERWOW)
 - 4,000 hours of on-the-job training
 - 288 hours of related instruction
 - Periodic worksite checks
 - Documented onsite work hours
 - Expert State Association mentoring
- Labor & Industries Registered Apprenticeship Standards
 - This exciting venture is in response to the growing demand for skilled operators as more and more operators are reaching retirement age.



2025 Forecast

- Capitals / R&M (Repair and Maintenance)
- WUTC Rate Case
- Wastewater Treatment Plant (WWTP)
- Lift Stations
- Shellfish Proposal

Capitals / R&M

- Water
 - Reservoir Telemetry
 - Meter Replacement Program
 - Fire Hydrants
- Sewer
 - Lift Station #9
 - WWTP Instrumentation
 - WWTP Headworks Planning

WUTC Rate Case



UTC

Washington Utilities
and Transportation
Commission

- Filing of the rate case
 - Proposed increase of 17.5% for 2025
 - First billing increase will be in April 2025
 - Washington Utilities & Transportation Commission will audit our worksheet and review requested increase
 - The 2023 rate case allowed for greater increase than OWSI requested.
- Communication
 - Customer Letter sent in October Billing
 - Website <https://ows-inc.com/news/october-2024-notice/> on October 24th
 - Additional Customer letter will be included in the December billing and posted on the website.

Wastewater Treatment Plant (WWTP) & Lift Stations

- WWTP
 - Major expansion in 1989, and minor in 2011.
 - Infrastructure upgrades and overhauls.
 - Biosolids Program
 - Forestry partner with Rayonier
- Lift Stations
 - 11 Total with new OT2 Phase 2
 - 7 of small to moderate size, 3 large
 - Our plan is to rehab 1 per year over the next 10 years.

Shellfish Grant Proposal

- **Overview**

- Application submitted on October 23, 2024
- Shellfish has at least \$5.3 million to award of [EPA Puget Sound Geographic Program funds](#).
- Project duration is 2-2.5 year.
- Investment Priority D – Integrate shellfish growing area classification priorities in wastewater treatment plant operation, planning and/or upgrades.
- **Future Grants... do you have an idea?**

Questions

- These slides will be available on our website.
- If you have NOT YET signed up for our notification system, please visit sign-up online at **ows-inc.com** or scan QR code below.

