



CITY OF ASTORIA

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MEMORANDUM • PUBLIC WORKS DEPARTMENT

DATE: JULY 20, 2026
TO: MAYOR AND CITY COUNCIL
FROM: SCOTT SPENCE, CITY MANAGER
SUBJECT: PUBLIC WORKS STATUS UPDATE

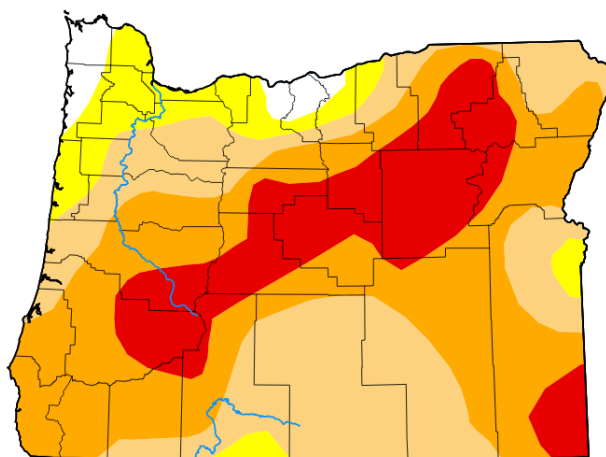
The following are summaries of the status of Public Works major projects and activities:

WATERSHED

- **Water Supply** as of this date – the City water supply is currently in a very good state with full storage within our raw water reservoir system. All three raw water storage reservoirs are at full capacity, which is very good for this time of year when they would typically be lower. The recent rainfall is the primary contributor. Our current water demand is normal with our two largest customers, Da Yang and Bornstein Seafoods, running two shifts and processing at peak levels. Recent news of drought impacting our state does not seem to be reaching us as indicated by the Oregon State Drought Monitor Map as shown below.

Oregon

[Home](#) / Oregon



Map released: Thurs. July 9, 2026

Data valid: July 7, 2026 at 8 a.m. EDT

Intensity

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data

Authors

United States and Puerto Rico Author(s):

[Curtis Riganti](#), National Drought Mitigation Center

Pacific Islands and Virgin Islands Author(s):

[Anthony Artusa](#), NOAA/NWS/NCEP/CPC

- The Public Works Director and Forester are working with the Lower Columbia Watershed Association on a conceptual project to supply Large Woody Debris (LWD) trees for their Bear Creek Habitat Improvement Project. Once vetted, staff will bring the project before Council for review and approval.

- Routine road maintenance – Our Water Source Operator has been conducting routine road system maintenance.
- Bear Creek Watershed Forest Carbon Project
 - The City of Astoria launched a voluntary forest carbon project in 2015 to generate revenue through the sale of carbon credits. To date, the project has generated approximately \$837,500 in net proceeds from two credit issuances. The project is currently undergoing its required five-year reverification under the American Carbon Registry (ACR), which could result in the issuance of up to 40,000 additional carbon credits. Council reviewed the FY 2025/26 Annual Operating Plan on April 7, 2025, which identified the carbon project as a key priority.
 - The carbon inventory phase is complete, and third-party onsite verification has been completed. The City is currently awaiting the final verification report, after which staff will begin marketing the available carbon credits. This work is being managed by David Ford (L&C Carbon), with verification services provided by Aster Global Environmental Solutions Inc.
- 2026 Timber Harvest
 - In accordance with the FY 2025/26 Annual Operating Plan, the City is proceeding with a 48-acre forest thinning project in the Bear Creek Watershed designed to improve long-term water quality, forest health, and resilience by reducing stand density and promoting structural diversity. In May 2026, City Council awarded the logging services contract to Teevin Bros. Land & Timber Co., LLC, and Hampton Tree Farms, LLC was selected as the purchaser for the Douglas-fir and western hemlock timber sorts. Work is expected to continue through the summer and into early fall 2026.
- Cedar Creek Bridge Project
 - City staff and the City Forester developed a concept to replace the deteriorating Cedar Creek crossing with a new bridge along the existing alignment. The existing three culverts under the road are failing.
 - Staff are now working with ODF and ODFW to identify a mitigation project to mitigate for a previous Spur 4 emergency culvert replacement. The new Cedar Creek bridge replacement may serve as a step in the mitigation requirements.
 - A more cost-effective option for the bridge crossing is under review and is expected to be brought before Council for authorization to award a contract this fiscal year.

WATER SYSTEM

Slow Sand Filter Re-sanding Project 2025

- The project, awarded to Big River Construction, continues to progress. Both Cell 1 and 2 were re-sanded and are back online. Work is expected to continue on the other two cells beginning in November 2026.

- This project replenishes the filter media in the City's slow sand filters, ensuring their continued effectiveness and maintaining high-quality water treatment for the community.

Pipeline Road Waterline Resilience Project (ARPA Grant Project)

- Construction of this project is complete, and Staff is working on close-out administration.

16th Street Distribution Waterline Project (ARPA Grant Project)

- Construction on this project is complete, and Staff is currently working on close-out administration.

30th Street and Marine Drive Emergency Waterline Repair Project

- Public Works is currently working on an emergency restoration project that will include a short section of waterline replacement and surface restoration in the intersection. We anticipate construction starting in August 2026.
- A temporary repair was completed after a waterline break several months ago.

Irving Ave from 20th St to 28th St Waterline Project (Congressionally Directed Spending)

- *No status change since the last update.*
- The project will replace an existing 6-inch cast iron waterline that is nearly 100 years old with a new 12-inch pipe constructed of modern resilient materials.
- The City was notified by U.S. Senator Jeff Merkley's office that \$1.8 million in grant funding has been allocated for this project.
- Staff has obtained a waiver for the 25% match portion of this grant, resulting in a 100% grant-funded project.
- Staff will be working on the application submittal as time permits.
- Further updates and details will be provided to City Council as they become available.

Automated Water Meter Reading (AMR) System Project

- *No status change since the last update.*
- The Public Works Department has completed the installation and implementation of the new AMR system for downtown and large commercial customers.
- City Council approved a strategy to purchase and install AMRs over a 4-5 year period. We have budgeted \$200,000 for new meters this fiscal year and plan to allocate \$200,000 each fiscal year to install the meters over time.
- Residential AMR water meter replacement is underway.

Old Highway 30 – Emergency Waterline Relocation Project

- *No status change since the last update.*
- The Department of Labor will not be proceeding with landslide mitigation work along its roadway due to a lack of funding.

- Due to the continued risk in this area, the City still plans to move forward with a project to relocate the existing waterline away from the toe of the slope.
- We are working with the City Attorney to coordinate an agreement for the relocation of the utility with the Department of Labor. We have recently established an active dialogue and will be working on finalizing an agreement/easement for the waterline relocation.

Dam Safety Program Projects, Bear Creek Dam Emergency Spillway, Main & Wickiup Dam seismic Studies (Oregon Water Resources Grant Projects)

- At the August 19, 2024, City Council work session, the Public Works Director presented the current status of all activities involving the Oregon Dam Safety Program compliance efforts. Following is the status of all activities taking place within the program:
 - Emergency Action Plan – Completed in 2012.
 - Bear Creek Dam Seismic Study – Completed in 2016.
 - Design Inflow Hydrology Report/Probable Maximum Flood (PMF) determination – Completed in 2021.
 - Scour Analysis of flood overtopping dam – Completed in 2022.
 - Bear Creek Dam Leak Investigation & Repair – Completed in 2022
 - Design Study of Alternatives for Emergency Spillway – Completed in 2024.
 - Final Design of selected emergency spillway alternative – On hold pending funding source.
 - Seismic Study of Wickiup Lake Dam – In progress.
 - Seismic Study of Middle Lake Dam – In progress.
 - Repair of Wickiup Lake conduit and control structure – Planned to be completed within the next 2 years.
 - Repair of Main Lake conduit – Planned to be completed within the next 3 years.
 - The City has entered into a Consent Order with the State (approved at April 7th Council Meeting) which outlines the specific corrective actions and schedule for implementation.
- Staff has been actively working on the corrective actions identified in the consent order.

SANITARY SEWER SYSTEM

Wastewater Treatment Plant Improvements Project (ARPA Grant Project)

- Construction on this project is complete, and Staff is currently working on close-out administration.

Sewage Lift Stations Rehabilitation Project

- This project includes replacement of screw pumps and sluice gates, resurfacing the channels, and modernizing the control mechanisms at the City's three sewage lift stations.
- A combination of funding is being used for this project: 1) OSG grant amount of \$185,880, 2) OSG grant in the amount of \$370,001, and 3) DEQ CWSRF loan amount of \$3,204,028 with 50% principal forgiveness.
- Richwine Environmental is the engineering firm supporting this project.
- Emery & Sons Construction Group, LLC is the CM/GC contractor.
- Construction is anticipated in Summer 2027.

Melbourne Ave. Sanitary Sewer Replacement Project

- *No status change since the last update.*
- This project includes the replacement of approximately 120 feet of deteriorated sanitary sewer pipe on Melbourne Ave.
- This project has temporarily been placed on hold to accommodate other project priorities.

6th Street & Marine Drive Emergency Sanitary Sewer Repair Project

- This project is planned to replace approximately 15 feet of failed sanitary sewer pipe in the NW corner of the 6th Street and Marine Drive intersection.
- The work needs to be completed prior to the start of ODOT's ADA ramp project. Currently, start of construction is planned for early August 2026.

COVID-19 Wastewater Monitoring

- Staff continues to provide COVID-19 testing results from the City Wastewater Treatment Plant (WWTP) for the Oregon Health Authority (OHA) Program. OHA has launched a statewide COVID-19 wastewater-monitoring project to study the presence of the SARS-CoV-2 virus in more than 40 small- to medium-sized communities around the state. The project, which will include weekly wastewater testing over a 30-month period, will enable epidemiologists to better understand the circulation of COVID-19 in some of Oregon's communities. It will serve as an "early warning" system.
- Early warning systems are being developed. See the OSU Wastewater Surveillance Website: <https://research.engr.oregonstate.edu/owws/utilities>

COMBINED SEWER OVERFLOW (CSO) SYSTEM

CSO Program

- In October 2025, City Council adopted the Final Integrated Plan through Resolution 25-34.
- The approved Integrated Plan results in a program extension giving staff time to scope Phase 5 (last phase) of the CSO Program and pursue grant funding. DEQ

has approved the program extension that will be included in the City's future NPDES Permit.

- Request for Proposals for replacement of the CSO monitoring equipment is anticipated to advertise in the next couple of months.

TRANSPORTATION SYSTEM

17th Street Floating Dock Replacement

- Staff worked with a marine designer to prepare a Request for Proposals (RFP) for replacement of the existing floating dock, which is approximately 35 years old, has exceeded its useful life, and requires increasingly costly annual repairs. The project is funded through the 17th Street Dock Fund. At its June 1 meeting, City Council awarded the initial phase of the project to advance the dock design. Design details are currently being finalized, and staff anticipate returning to Council soon to request authorization for the remaining contract work.

Trolley Trestle Repair Project 2025

- Bergeman Construction was selected to complete this project.
- Repairs are currently underway and expected to be completed by the end of July 2026.

Trolley Infrastructure Maintenance Planning

- *No status change since the last update.*
- The City will work with the Riverfront Trolley Association (RTA) to update the operational agreement that guides the use of the tracks and associated infrastructure.
- The Riverfront Trolley Association (RTA) has worked diligently to repair several track deficiencies identified by the Oregon Department of Transportation (ODOT) Rail Division during their inspection. This effort has included replacing numerous deteriorated railroad ties. The City has partnered with the RTA to ensure that materials and equipment are available for maintenance work, yielding very positive results. Currently, no identified issues will prohibit the Trolley from operating.
- The City and the RTA are collaborating on a project to replace the 16th Street rail crossing to address both rail and roadway deficiencies. This is planned for Fall 2026.

7th – 11th Street Cathodic Protection System Repair Project

- Primary construction is complete with only several minor repair items remaining.
- The Contractor will be returning to test the system to ensure it is working properly 30 days after the installation.

City and Hwy 30 Chairwall Issues

- *No status change since the last update.*
- The City of Astoria has a downtown where the roadways are supported by a wall system commonly referred to as a Chairwall system built in 1919 and 1922.
- US Hwy 30 through town is supported by the wall system between 5th Street and 17th Street.
- There are two locations where the wall system supporting Highway 30 is failing. The first location is on Marine Drive between 9th and 10th Streets, and the second location is between 16th and 17th Streets.
- Staff has communicated with ODOT regarding the need to repair the failing wall segments supporting the highway. ODOT has informed staff that they will route oversized loads away from the wall segments through their oversized freight traffic permit process.

ODOT ADA Ramp Project

- The City of Astoria is working on a number of coordination items with ODOT to accommodate their upcoming ADA ramp improvements throughout Astoria.
- This work necessitates pre-project utility relocation work at 5 locations. Operations staff have completed relocation work at 3 locations.
- The project IGA was approved at City Council and covers both phases of the project.
- Coordination efforts have started on Phase 2 of the project and additional relocation work for Phase 1 is currently being evaluated.

SANITATION

Landfill Post-Closure Activities

- *No status change since the last update.*
- Household Hazardous Waste Facility: Staff will continue to work with County staff on DEQ gas monitoring requirements.
- Staff is continuing to work with the Oregon Department of Environmental Quality (DEQ) on post-closure activities, including gas and groundwater monitoring. A final permit has been issued, and staff is currently working on the final document requirements for the site. Once all operation manuals are complete, staff will proceed with required annual reporting for the term of the post-closure period.
- During periodic utility inspections, it was determined that a critical stormwater pipe through the site showed signs of failure. Staff is developing a plan to replace the pipe and will monitor its condition in the meantime. Funding for this project has not yet been identified.
- Staff have completed the Landfill Closure Permit renewal process with DEQ. The term of the permit renewal is ten years so it will expire on December 31, 2035.

Recycling Modernization Act (RMA)

- *No status change since the last update.*
- Local Funding Authorization Form to authorize Recology Western Oregon to receive the funding on the City's behalf was approved by City Council on April 21, 2025.
- Staff has prepared and City Council has approved a lease amendment with Recology that will provide a small amount of additional space for recycling facilities at the transfer station.

FACILITIES

- No significant projects are currently underway

LANDSLIDE RESPONSE AND UTILITY REPAIR

Irving Avenue at 27th Street Emergency Road Repair

- Project includes temporary repairs to the damaged roadway on Irving Avenue near 27th Street that was caused by land movement which led to the road being closed in December 2025. Repairs are intended to restore vehicular traffic.
- The City has requested FHWA funds administered through ODOT for this project due to the declared Statewide emergency from the extreme rain event that triggered this localized land movement.
- Big River Construction completed this work in May, and Staff is currently working on project close-out administration.



Irving Avenue Emergency Road Repair

27TH Street and Grand Avenue Landslide

- Engineering Division staff are currently working with a consultant on a design to restore infrastructure in the area. Impacts from additional landslide movement during this last winter are being updated in the design.
- Stop-gap repairs have been completed on the sanitary sewer pipe and storm drain flume system.

- The scope of work is currently being evaluated with respect to recent and continued land movement in the area.

PUBLIC WORKS ENGINEERING

Development Review Workload

- In calendar year (CY) 2026, the Engineering Division anticipates a sustained and significant development review workload, driven largely by construction coordination for several large commercial projects approved in previous years. While overall permit intake has declined, the complexity, scale, and coordination demands of current projects remain high. We are working on ways to increase review efficiency and minimize impacts on Public Works priorities. However, work associated with development review is expected to substantially impact staff resources available for capital improvement projects this year.
- Within the next year, Staff anticipate coordinating, reviewing, and overseeing construction associated with nearly \$200 million in private development. These projects require extensive staff involvement for plan review, inspection coordination, utility connections, traffic control, and compliance oversight throughout construction.
- Unpermitted work continues to place an increasing burden on Public Works resources. When work, such as utility connections, sidewalk repairs, grading/excavation, or driveway installations, is performed without the required permits or inspections, staff must shift from planned priorities to response efforts. This often involves site investigations, coordination with property owners, enforcement measures, and, in some cases, removal or correction of work that fails to meet City standards or creates safety concerns. These unexpected demands disrupt daily workflows, delay progress on capital and maintenance projects, and divert resources from development review and other essential services. Unpermitted work also undermines the City's efforts to maintain consistent infrastructure standards and protect the long-term reliability of its public systems.

GIS Updates

- GIS staff continue to make database and data management improvements. User experience improvements have been made to our desktop and mobile applications for both City staff and public use.
- GIS staff developed a UAS (Uncrewed Aircraft Systems)/Drone program to add aerial imagery and other associated resources to the City. This has already been used for natural resource monitoring, infrastructure inspection, and construction monitoring. Over 50 missions have been conducted to date.
- GIS staff migrated Automated Meter Reading (AMR) data collection to an electronic form. Additionally, fire hydrant flushing and flow testing data collection has been migrated. This provides an accurate location of assets along with validated data collection. Workflows have been developed to create products used by Public Works and Finance staff that are regularly updated and sourced from a single, authoritative dataset.

- Operations staff are using tablets and centimeter accurate GNSS (GPS) receivers in the field, which makes their access to GIS data more accurate and insightful. Their use is expanding with AMR, fire hydrant, and other utility asset data collection. A second GNSS (GPS) receiver was purchased to increase the amount of data collected. Efficiency in field work and accuracy of asset locations are increasing, improving the knowledge and understanding of the various utility systems.

PUBLIC WORKS OPERATIONS

The following items highlight some of Operation's recent work:

Personnel and Training:

- Public Works experienced several staffing changes during the quarter, including the retirement of Weekend Water Operator Ken Johns after nearly 12 years of service and the hiring of a new Wastewater Treatment Plant Supervisor, Utility Worker I, and two temporary seasonal workers. Recruitment continued for the vacant Weekend Water Operator position, and backup wastewater operator training was initiated to strengthen operational coverage. Two employees earned Water Distribution I certifications. Staff completed a broad range of professional development and safety training, including CPR/First Aid, chlorine safety, hazard analysis and OSHA response, hearing protection, ladder and respiratory safety, sweeper operation and maintenance, flow monitoring and manhole repair, basic electrical systems, procurement, software systems, and emergency vehicle technician testing. Public Works also celebrated National Public Works Week in May.

Water:

- Water operations focused on system maintenance, reliability, and preparation for upcoming infrastructure improvements. Crews repaired 15 water leaks and main breaks, including a major leak on an 8-inch main at 27th Street and Marine Drive, and replaced 117 aging water meters with AMR units. Fire hydrant flushing and flow testing were completed for 2026, and three water service installations or upgrades were completed. Crews also began preparations for ODOT's ADA ramp project, including relocating a gate valve and installing temporary service infrastructure at 4th Street and Marine Drive. Additional work included cleaning all sand filter cells at Headworks, maintaining pumps and flow-monitoring equipment, cleaning reservoir covers, repairing large water meters, and responding to water quality complaints.

Sewer:

- Sewer operations focused on system reliability, lift station rehabilitation, wastewater treatment plant maintenance, and investigation of system deficiencies. Crews completed extensive entry and rehabilitation work at Lift Stations 3, 4, and 5, totaling more than 190 documented worker hours, following safety and entry coordination with the Astoria Fire Department. At the Wastewater Treatment Plant, Big River completed construction of the Headworks

structure, DEQ conducted a facility inspection, and staff rebuilt and installed mixers and blowers, installed lagoon baffle curtains, maintained the PISTA grit system, and cleaned the contact chamber. Crews also conducted extensive CCTV inspections and dye testing to support the 2026 paving project and investigate sewer conditions, private sewer failures, backups, and capped laterals. Additional repairs included removal of a blockage from an 8-inch sewer main at 20th and Commercial Streets and sewer repairs along Grand Avenue.

Stormwater:

- Stormwater crews performed targeted inspections, repairs, and maintenance to improve drainage performance and address localized system deficiencies. Work included repairing a storm lateral damaged by utility construction, using CCTV equipment to inspect a 30-inch clay storm line and catch basin laterals, and repairing a degraded catch basin and associated sinkhole at Hyten Court and Dawson Court. Crews also removed trees obstructing a storm inlet and inspected CSO outfalls and signage.

Transportation:

- Street operations focused heavily on paving preparation, roadway maintenance, pavement markings, signage, and grounds maintenance. Crews installed valve cans and catch basin components, retrofitted manhole lids and risers, completed ditch backfilling, and constructed a retaining wall on West Bond Street in preparation for the 2026 paving project. Crews repaired potholes throughout the city and addressed major sinkholes at Commercial Street and Marine Drive and near the foot of 14th Street on the Riverwalk. New thermoplastic crosswalks, parking markers, and stop bars were installed at multiple locations, while street signs were washed, repaired, and replaced as needed. Staff also completed approximately 212 hours of machine mowing, 210 hours of street sweeping, and 260 hours of grounds maintenance during the quarter.

Shop and Yard:

- The Shop and Yard division supported operations through facility improvements, equipment maintenance, and interdepartmental services. Flooring was removed for asbestos abatement at the main Public Works shop building, the craft shop was relocated and reconstruction initiated, and the former craft shop was repurposed as a locker room for field staff. Staff completed second-quarter safety inspections and provided 170 hours of vehicle maintenance support to other City departments. Significant maintenance and repairs were also completed on the street sweeper and mower, each requiring more than 90 hours of work during the quarter.

Miscellaneous:

- Public Works staff provided ongoing maintenance and support for City facilities and community assets. Work included improvements at Fire Station No. 1 and the Public Safety Building, replacement of a streetlight outside the Police Department, and a variety of maintenance activities at City Hall and the Astoria Public Library. Staff also performed electrical safety inspections and general

maintenance at the 17th Street Dock, assisted with the disposal of a sea lion carcass near the Riverwalk, and completed monthly inspections at Heritage Square.

BY: JEFF HARRINGTON, PUBLIC WORKS DIRECTOR

SUMMARY OF INFRASTRUCTURE GRANTS AWARDED

Staff has dedicated many hours of hard work to securing and administering grant funding for projects that would have otherwise been funded by incurring debt service, resulting in subsequent rate increases. Since 2006, Public Works has secured or assisted with approximately \$50 million in grant funding for the City.

Staff met the American Recovery Plan Act (ARPA) grant requirements for the following projects:

- OR202 Waterline Replacement Project - \$1,772,000
- Wastewater Treatment Plant (WWTP) Improvements Project - \$4,860,000 (ARPA Grant) + \$425,000 (OBDD Grant) + \$4,959,232 (OBDD Loan)
- Pipeline Road Waterline Resilience Project - \$2,930,000
- 16th Street Distribution Waterline Project - \$2,790,000

Staff met the FEMA and IFA Pre-Hazard Mitigation grant requirements for the following project:

- Pre-Disaster Landslide Storm Drainage Project - \$902,487.50 (75% or \$676,875 FEMA grant funded with 25% or \$225,615 City match funded by IFA)

GRANT FUNDED Bear Creek Dam Spillway Pre-design - \$140,000

The second phase of the spillway study will eventually result in meeting a requirement of the Oregon State Dam Safety Program that requires our High Hazard Dam to have the capability of passing a probable maximum flood event over the dam without causing damage to the dam and without reducing the dam's seismic stability.

**Funding source for the above project: Oregon Department of Water Resources*

GRANT FUNDED Irving Avenue (20th - 28th St.) Waterline Resiliency Project - \$1,894,662

This project will upgrade 2,800 LF of old 6-inch cast-iron water pipe to new resilient 12" HDPE pipe from 20th Street to 28th Street along Irving Ave. and will provide a critical alternate route for over a mile of the City's 21-inch transmission main that connects Reservoirs 2 and 3 through several landslide-susceptible areas. The existing pipe was installed in 1928 and 1970 and is aligned through several mapped landslide areas.

**Funding source for the above project: Congressional Directed Spending*

GRANT/LOAN FUNDED Sewer Lift Stations Rehabilitation Project - \$3,670,000

The City has three sewage lift stations that convey sewage around Astoria, starting on the Young's Bay side of town and heading to the wastewater treatment plant on the east side. Built in the early 1970s, these lift stations are in dire need of an overhaul, with breakdowns occurring periodically and costly repairs burdening our budget.

For the design phase, DEQ awarded a \$185,880 grant through their Sewer Overflow & Stormwater Reuse Municipal Grant (OSG) program and a loan of \$119,920 with 50% forgiveness (grant) through their Clean Water State Revolving Fund (CWSRF). For the construction phase, DEQ awarded a loan for \$3,370,000 and half of the loan (\$1,685,000) amount is forgivable loan (grant) and an additional \$370,001 OSG grant.

**Funding source for the above project: Department of Environmental Quality (DEQ)*

PROJECT SHORT LIST FOR FUTURE GRANT/LOAN REQUESTS

AWAITING FUNDING OPPORTUNITY Water System Clearwell Project - \$6,000,000

This project would improve operations at the water treatment facility and provide updated laboratory facilities. A study was completed in 2018 identifying the project's purpose, scope, cost and benefits.

AWAITING FUNDING OPPORTUNITY Phase 5 CSO Program Projects - \$18,000,000

Grant funding for the remaining CSO program projects would reduce the length and amount of future CSO surcharge rates for the ratepayer. While this amount of grant funding is not highly likely, we will continue to look for funding opportunities.

AWAITING FUNDING OPPORTUNITY Irving at 33rd Street Bridge - \$14,200,000

Public Works staff has applied for funding for our last of nine City-owned bridges three times but have not been awarded funding for this existing timber bridge built in 1951. Past bridge funding from ODOT Local Bridge Program consisted of 90% grant and 10% City match. Staff will continue to submit an application to this program for each STIP cycle.

AWAITING FUNDING OPPORTUNITY Denver and Alameda Sidewalk Project - \$960,000

This project is a transportation safety project identified in the City Transportation System Plan (TSP) as a priority sidewalk project linking neighborhoods above Tapiola Park and the Astoria High School to the Hwy 202 sidewalk corridor.

AWAITING FUNDING OPPORTUNITY City of Astoria Little Bear Creek Waterline Replacement Project - \$3,400,000

This funding would allow the City to replace approximately 3,200 feet of our only drinking water transmission main providing water to the City of Astoria and multiple outlying water districts. This waterline was built in 1963 and is a 21-inch reinforced concrete cylinder pipe. The alignment of the water transmission main traverses through undeveloped forest land and crosses multiple landslides along the way. At this location the waterline crosses a creek where it has become exposed and is vulnerable to damage. The water transmission main has experienced failure caused by land movement at this location.

AWAITING FUNDING OPPORTUNITY City of Astoria 16th & Jerome to 18th & Irving Waterline Resilience Project - \$1,000,000

This funding would allow the City to replace approximately 1,100 feet of our drinking water distribution main providing increased water volume to the central part of town and providing backup (resilience) for the 21-inch waterline from Reservoir 3 to Reservoir 2.

AWAITING FUNDING OPPORTUNITY City of Astoria Wastewater Collection System Assessment & Master Plan - \$1,500,000

This funding would allow the City to complete a much-needed assessment of our wastewater collection system and complete a Collections System Master Plan which the City has never had. Much of the City's combined sewer/storm system is between 50-100+ years old. This work would allow the City to plan and implement repairs much more efficiently and focus on system repairs that will support future housing.

AWAITING FUNDING GRAND TOTAL: \$45,060,000