Bringing the First Reclaimed Water to Our Community

LOTT’s central Budd Inlet Treatment Plant houses the Budd Inlet Reclaimed Water Plant, the first of several planned reclaimed water plants within the Lacey-Olympia-Tumwater urban growth area. This plant is designed to clean water to Class A Reclaimed Water standards so it can be made available for reuse.

How it Works

At the Budd Inlet Treatment Plant, wastewater receives advanced secondary treatment, including nitrogen removal and ultraviolet disinfection, before the treated water is discharged to Puget Sound. A portion of that treated and disinfected water is now diverted to the Reclaimed Water Plant to be filtered through continuously backwashing sand filters. A sodium hypochlorite solution (bleach) is used to further disinfect the reclaimed water. This additional disinfection is required in order to maintain a chlorine residual throughout the distribution pipelines.

The Budd Inlet Reclaimed Water Plant can produce up to one million gallons of reclaimed water daily. The actual volume produced each day varies to match demand for reclaimed water. Storage for 120,000 gallons of reclaimed water is available on-site. As the stored water is drawn down, more reclaimed water is produced. Pipelines leaving the facility, color-coded purple, carry the Class A Reclaimed Water to sites where it is put to use.

High Profile Users

The City of Olympia Water Utility provides distribution services for reclaimed water from the Budd Inlet Reclaimed Water Plant. Current uses of reclaimed water include:

- Irrigation at the State’s Heritage Park and Marathon Park
- Irrigation at City park facilities along Percival Landing
- Irrigation along Marine Drive, and dust suppression at the Port of Olympia
- Fountains, ponds, and toilet flushing at LOTT’s new Administration/Education Center and the East Bay Public Plaza
- Irrigation, pumpseals, and cleaning at LOTT’s Budd Inlet Treatment Plant
- Pump house and wetwell cleaning at LOTT’s Capitol Lake Pump Station

Planned future uses include:

- Irrigation at the Tumwater Municipal Golf Course and other park sites
- Toilet flushing at the new Hands On Children’s Museum
- Boat washing and constructed ponds at the Port of Olympia
- Irrigation at the State Capitol campus
Facility Costs and Pipelines

The construction cost of the Reclaimed Water Plant was about $2.8 million. LOTT’s construction of a 12-inch distribution line between the plant and Heritage Park cost an additional estimated $923,000.

In a cost-share arrangement with the City of Olympia, the Port of Olympia installed a pipeline from the Reclaimed Water Plant north through the Port peninsula. As future reclaimed water customers are identified, those individual customers and the City will have responsibility for constructing the needed distribution infrastructure.

The Future of Reclaimed Water at the Budd Inlet Treatment Plant

LOTT’s Budd Inlet Treatment Plant Master Plan, completed in 2006, envisions the possibility of even more reclaimed water production in the future. In 2005, LOTT received a new permit from the Department of Ecology that reduced allowable discharges of treated water to Budd Inlet during the summer months. Treating that water to reclaimed water standards, so it can be used for irrigation and other purposes, helps LOTT address these more stringent permit limits. To maximize that benefit, more reliable uses for the water will be needed.

During 2006, LOTT began a study to evaluate alternatives for distributing and using more reclaimed water from the Budd Inlet Reclaimed Water Plant. The study looked at pipeline alternatives for moving the water to other locations, potential uses for the reclaimed water in Olympia and Tumwater, and groundwater recharge options in Tumwater and the south Deschutes area.

For More Information...

For more information about production of reclaimed water or LOTT’s reclaimed water projects, please contact:

**LOTT Clean Water Alliance**
500 Adams Street NE
Olympia, WA 98501-6911
(360) 528-5719

For more information about distribution and uses of Class A Reclaimed Water, please contact:

**City of Olympia**
PO Box 1967
Olympia, WA 98507-1967
(360) 753-8793

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A Reclaimed Water Filling Station at the Budd Inlet Treatment Plant allows trucks to load Reclaimed Water for dust suppression, pressure-washing and irrigation of parks and other landscaped areas.