Wilsonville Wastewater Treatment Plant

Clean Water for Tomorrow

January 2012

Wilsonville Upgrades Its Wastewater Treatment Plant

Located at the southern edge of the Portland metro area, straddling I-5 and close to the I-205 junction, Wilsonville has experienced steady population growth over the past decade and now has over 19,000 residents. Local employment has grown, too, with the arrival of Xerox, Mentor Graphics, Flir Systems, Coca Cola, Sysco, Rockwell Collins and other employers.

Infrastructure and services – transportation, drinking water and stormwater facilities – have been stretched. The community's wastewater system is no exception.

Originally built in 1971, the City of Wilsonville wastewater treatment plant was updated in the late 70's, 80's and most recently 1998. Now, despite past investments and ongoing maintenance, many components are nearing the end of their expected life. This project will replace aged equipment and structures with current technology and processes capable of handling the community's current needs and future growth over the next 20 years. The facility has a history of generating odors that migrate off-site and impact neighbors. A primary project goal is to mitigate both on-site and off-site odors.

Tougher regulatory standards are also on the horizon. The facility discharges to the Willamette River and upgrading the wastewater plant will ensure Wilsonville can meet future water quality regulations. Another goal of the project is the ability to produce solid by-product which can be applied as fertilizer. Currently, the system produces a liquid by-product which is difficult and expensive to store and dispose of.

A project of this size and complexity could not be built without external funding. The city's outstanding financial rating allowed the city to secure $38 million in 20 year bonds at a very favorable 3.45 percent interest rate.

Built in 1971, Wilsonville's wastewater treatment plant is being upgraded to meet community needs and environmental regulations.

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Expert Team Will Build and Operate Wastewater Plant

Wilsonville is using a Design-Build-Operate (DBO) method of contracting. This involves hiring a firm with knowledge of and experience with both operation and construction of the latest wastewater treatment technologies.

After an intensive three year selection process, the multi-national engineering and construction company CH2M Hill was chosen by the city as the DBO contractor. CH2M Hill will be responsible for operating the plant for a minimum of 15 years, meeting set performance measures. The company will also design and construct the plant upgrades to future expansion thereby minimizing long-term life cycle costs. A key challenge for CH2M Hill is to operate the plant while constructing major improvements so there is little or no disruption in service.

The City of Wilsonville will continue to own the treatment plant and the community's other wastewater facilities. CH2M Hill will operate and maintain the upgraded treatment plant, along with eight pump stations. City Public Works Department will continue to manage and maintain the sewage collection system.

Operations at the wastewater treatment plant will follow the model already in place at the City's award-winning drinking water treatment facility.

Citizen Input

The City values citizen input. You are encouraged to ask questions and share your comments. The following are opportunities to participate:

- Attend a City Council meeting or hearing.
- Visit the project website at www.wilsonvillewwtp.com.
- Sign up for a tour of the plant by calling (503) 570-1502.
- Participate in upcoming community open houses.
- Submit questions and comments via Ask the City on the City website at www.ci.wilsonville.or.us. or at www.wilsonvillewwtp.com.
- Contact Dan Knoll, Communications Director at knoll@ci.wilsonville.or.us or (503) 570-1502.

Wastewater is treated to rigorous state and federal standards, before being discharged to the Willamette River.

Project Highlights

- ✓ Five new buildings, 11 new or expanded processes.
- ✓ $36 million design build price, two year construction schedule.
- ✓ Odor control improvements are a key project component.
- ✓ The upgraded wastewater plant will meet and exceed all current and anticipated future environmental regulations.
- ✓ As part of the project, liquid by-product sludge will be replaced with a solid by-product suitable for use as fertilizer.
- ✓ The improved wastewater treatment plant will increase capacity from 2.25 MGD to 4 MGD with provisions for expansion to 7 MGD.

Key Project Milestones

July 2011	Nov 2011	Sept 2011	Feb 2012	March 2014	2020 +/-	July 2026
Council approves DBO contract with CH2M Hill.	$38 million bond sale completed.	CH2M Hill assumes control of plant operations.	Design completed, Begin construction	Construction (Phase I - 4 MGD) completed.	Phase II (7 MGD) construction.	Operations contract expires, but is renewable.

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