



# LAKEHAVEN UTILITY DISTRICT

31627 1st Ave. S. | PO Box 4249 | Federal Way, WA 98063-4249  
Federal Way: 253-941-1516, Tacoma: 253-927-2922 | [www.lakehaven.org](http://www.lakehaven.org)

**March - April 2008**

## **Commissioner's Corner**

**Don Miller**



HELLO NEIGHBORS!

As a customer of Lakehaven Utility District, you can be assured that you receive a level of service that reflects the best efforts of our staff. With help from agencies such as the American Water Works Association and the Water Environmental Federation, we are constantly evaluating the standards for water quality and effluent discharge. Many years ago, the District coordinated its efforts with other South King County water agencies, and the City of Tacoma, to develop a new source of supply that will guarantee a supply of water for our area for several generations into the future. With the Second Supply Pipeline (SSP) now essentially complete, the District is studying ways to further enhance the supply of water through a program called OASIS. This system involves injecting winter water from the SSP into the aquifer through injection wells. This water can be withdrawn later during the dry months. One well will accept up to 1,800 gallons per minute! Water can also be transferred between aquifers, which will enable the District to better manage water for peak demand, which typically occurs in the summer. Several injection wells are in various stages of development at this time.

In addition to ensuring a supply of water, we want to make certain that the supply we provide meets the standards for water quality. Filters are being installed at most of our well sites to make certain that water quality is maintained at high levels. Because of these efforts, you, your children and your grandchildren, will enjoy a reliable source of high quality water well into the future.

Also, all of us in the Puget Sound Area are concerned about the quality of the marine environment. To be responsible stewards of the public interest, the District is in the process of contracting to have the outfall line from the Redondo Wastewater Treatment Plant extended farther out into the Sound. The District is also participating with the Puget Sound Partnership to study the possible extension of the Lakota Treatment Plant outfall. The extension of the outfalls will move the point of discharge farther from the tidal areas and improve the dispersion of the effluent. Although these projects are expensive, we want to do our part to help preserve the Puget Sound for the enjoyment of many future generations to come.

This newsletter is our way of keeping in touch with you our customers, as well as your children (see the Kids Corner on the back of the newsletter). If you have suggestions for us, please call the main office at 253-941-1516 or email us at [www.Lakehaven.org](http://www.Lakehaven.org). We will reply as soon as possible.

Best Regards.

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**Leonard D. Englund**  
Commissioner

**Charles I. Gibson**  
Commissioner

**Timothy A. McClain**  
Commissioner

**Donald L.P. Miller**  
Commissioner

**Ronald E. Nowicki**  
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## **SEWER RATES FOR COMMERCIAL CUSTOMERS**

The District's sewer rates for commercial customers are based, in part, on the strength of the waste stream entering the sewer system. Significantly more treatment is required for discharges with higher levels of suspended solids and biological oxygen demand (BOD). Accordingly, commercial customers are rated according to the amount of these loading components discharged to the sewer system.

The District recognizes five Standard Industrial Classifications (SIC), with SIC 1 having the least amount of suspended solids and BOD and SIC 5 having the highest. By reducing the loading to the sewer system, customers can lower their rating by utilizing pretreatment practices. By lowering the strength of the discharge, a pretreatment program can save the District and customer money.

If you would like more information on your SIC rating and/or pretreatment, please contact Brian Asbury at 253-946-5407.

## **FILTRATION FOR WELLS 17, 17A & 17B**

In November, Lakehaven began construction of a new water filtration system for three more existing water production wells. The new Well 17/17A/17B filter system will have the capacity to treat 3.8 million gallons of water per day and is expected to remove approximately 95% of the manganese and 85% of the iron minerals that are naturally found in the groundwater from these wells. Left at elevated levels, these minerals have a tendency over time to precipitate and deposit in the distribution system and home plumbing systems creating aesthetic problems, such as fixture stains and discolored water. Having started building filtration facilities in 2003 to improve overall water quality, this will be the last of eight sites that the District had selected for iron and manganese reduction. This multi-year project is expected to reach final completion in the spring of 2008.

## **FAREWELL TO EMPLOYEES**

It is with sadness that we say goodbye to two District employees.

Dan Kuipers was hired in December of 1982 as a Maintenance Person and was assigned to field operations. He progressed through the ranks to become a Maintenance Electrician working with the Electrical & Instrumentation group. Dan was very respected by his peers and he will be greatly missed.

Jim Fleming was hired in June of 2005 as the Operations Supervisor overseeing day to day operations of the District's two treatment plants, the Maintenance Division, Lab Group, and Electrical & Instrumentation. We will miss Jim's professionalism and his warm sense of humor.

## **WELL 32 DRILLING OASIS PROJECT**

Lakehaven Utility District will be drilling its first aquifer storage and recovery (ASR) well named Well 32 this year. The project, as one portion of "OASIS", involves the development of a local aquifer called the "Mirror Lake Aquifer". The aquifer will eventually serve as an underground reservoir facility capable of delivering nearly 10 billion gallons of water during a high demand summer season.

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ASR is a type of groundwater recharge in which water is injected into an aquifer for storage and later extracted from the same well. The project relies on the injection of an equivalent amount of water during the lower water demand seasons to replenish water levels prior to the next production season.

The OASIS project is proposed for development in two 6-year pilot phases and then followed by six 6-year operational phases. The first phase portion of OASIS pilot testing program is scheduled between 2006 to 2012. Phase 1 will test the validity of the results of earlier ASR testing from the early and mid-1990s. One component of the OASIS project is the construction and testing of Well 32.

The Well 32 project began in 2007 with the development of technical specifications by the consultant firm of Robinson, Noble & Saltbush Inc. The well will be located on the District's office campus property at 31627 First Avenue South, Federal Way, Washington. Well 32 will be drilled to a depth of 700-feet with a 24-inch diameter steel casing. Upon completion, the well will be capable of injecting or producing a minimum of 3,000 gallons per minute (GPM).

Anticipated well completion should be in mid-summer. Once the well has been drilled, the well will be tested to establish the production and injection characteristics of the aquifer and to establish the background water quality. The project is estimated at \$500,000 and is funded through local funds.

If you have any questions, please contact Tim Osborne, Project Manager at (253) 945-1582 or [tosborne@lakehaven.org](mailto:tosborne@lakehaven.org).

## **KIDS CORNER - Make a Terrarium**



**Materials:** A jar or glass, plants, spray bottle of water, soil, sand, and small rocks.  
**Directions:** Fill jar or glass as shown and put in a sunny place. Mist the soil when it is dry.



## **TIPS TO SAVE/CONSERVE WATER**

- Install water saving faucet aerator and save an average of 5 gallons of water per day.

## **WATER CONSERVATION ACTIVITY**

Water Festival for 4th & 5th grade students on March 26th and 27th at Highline Community College.

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## *Your Board of Commissioners*

Ron Nowicki - President  
Chuck Gibson - Vice President  
Ed Stewart - Secretary  
Beverly J. Tweddle - Commissioner  
Don Miller - Commissioner

Regular Board of Commissioners meetings are held the 2nd and 4th Thursdays of each month.  
These meetings are held at the Lakehaven Center at:

Lakehaven Center  
31531 First Ave. S.  
Federal Way at 6 p.m.

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