

Our irrigation source is a lake that is plagued by clay, silt and other debris during the year. The lake is 1.12 acres, and over the past 10 years, it has silted in from a depth of 15 feet to its current depth of four feet. Hence, the need for dredging. Here's how we did it:

Prior to dredging, permits had to be granted from the Army Corps of Engineers, the Environmental Protection Agency, Department of Environmental Quality, Unified Sewage Agency, Division of State Lands, the City of Beaverton and Washington County.

The permit acquisition stage took us about 18 months!

Bids were then received from three dredging companies, and ranged from \$80,000 to \$250,000.

The winning bidder brought in two 80,000-pound cranes to set the dredge into the lake. Pipes were laid in the lake to a

settling pond about a quarter mile away.

A weir system was set up at the settling pond to allow silt and mud to settle out prior to returning the water into the lake.

Cutting heads on the dredge pumped mud and silt through the pipes to the settling pond for about three months.

During this same period, we were also installing a new irrigation system. The suction line for the intake to the irrigation system is a floating 18-inch screened head, placed in the middle of the lake. It needed at least three feet to set in and four-five feet of draw down. We elected to dredge the lake to a depth of 13 feet. According to our calculations, this depth would give us six days of irrigation resources without outside flow into the lake.

We pumped 7500 cubic feet of silt and mud out of the lake. Upon completing the dredging,

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Vinyl wall solves erosion problem

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Supers focus on greens fertility

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The grow-in: putting it all together

Dredge lakes for cleaner water, greater capacity

FORREST
GOODLING
Guest columnist

the contractor returned one year later to smooth out the silt/mud settling ponds used for storage. We now have cleaner water and a greater storage capacity.

Forrest Goodling is superintendent at Portland Golf Club, Portland, Ore.

Want to be a *Think Tank* guest columnist? We want to know about a project you recently completed, or how you solved a particular management problem. Mail an inquiry to: The Editors, LANDSCAPE MANAGEMENT, 7500 Old Oak Blvd. Cleveland, OH 44130. Fax to 440-891-2675. **LM**

[SUPERS ON COURSE]

Earl Millett is the new president of the MetGCSA. Millett is superintendent at Ridgeway Golf Course, and has been involved in the association for 21 years. "I started on the ground floor and worked my way up through the chairs," says Millett. "This has enabled me to see how—and what it takes—to run one of the finest superintendents associations in the nation."

José Garcia is the superintendent at Borrego Springs Resort & Country Club, which opened on January 2. Garcia was last with Caba del Sol, a Jack Nicklaus-designed course near Baja, Mexico. Borrego Springs has 100 acres of turf and four lakes, and is landscaped with native desert vegetation, including 350 mature date palm trees.