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## HOBAS® Project of the Year 2005: Leave it to Beaverton (USA)

This year's topic of the annual HOBAS® Project of the Year Award was "System Solutions". Numerous HOBAS® Organizations submitted their projects that portray HOBAS® as a System Supplier to an internal jury of this 4th international award. We now proudly present the winning project of this tight competition: "Leave it to Beaverton" by HOBAS Pipe USA.



Beaverton in Oregon is a city that devotes 400 ha to 100 parks, so one is within 800 m of every home. With this emphasis on green space, Clean Water Services, the regional wastewater and storm water utility, set the highest priority on reliability in planning a sewer upgrade through Tualatin Hills Park and Recreation District's 90 ha nature park. According to Steve Lampert, one of Clean Water Services' project managers, "the main consideration was we didn't want to have to go back out to the wetlands to make repairs." A corrosion resistant product that would remain leak-free for years to come was exactly what they were looking for.

The specifications included 2.5 km of pipe – approximately 0.5 km DN 1200, about 1 km of DN 1500 and around 0.5 km of DN 1700. The alternatives were profile wall polyethylene and HOBAS® CC-GRP Pipe Systems. Neither of these is affected by hydrogen sulfide.

The contractor, John L. Jersey & Son, Inc. of Portland, bid the job with HOBAS® CC-GRP Pipe Systems. John F. Kalkhoven, P.E., Jersey project manager, said that strength and durability were two of the important reasons his firm chose HOBAS®. The trench details for HOBAS® did not require filter fabric and needed bedding only up to the spring line.

In order to accommodate the many changes on the sewer line Jersey installed manholes. It wasn't uncommon to have a series of manhole runs of only 30, 20, 40 and then 150 m. "The custom-made manholes simplified this task," Kalkhoven said. HOBAS® manufactured each manhole with the correct miter and couplings so that they were easily joined. "For the first 600 m of pipe, we were limited to an easement 9 m wide," explained Kalkhoven. "Since the excavation for the DN 1700 was 2.4 m wide, we had a 3 m path to bring everything in. All the pipe and bedding had to come from behind but this was no problem. We'd lay the pipe, then install the teebase manhole and proceed to the next joint. After the manhole bases were installed, we put the risers in place and added the cover. The risers were delivered complete including fiberglass ladders."

The DN 1200 HOBAS® Manhole Risers were reduced to a standard DN 600 top. HOBAS® also made the manhole covers, which were attached with a gasket and bolts ensuring they would be watertight as the summer water levels rise. "HOBAS® supplied a complete package," Lampert continued. By providing the pipe, manhole tee bases, risers and lids, HOBAS® CC-GRP Pipe Systems make jobs convenient for the contractor.



Lampert said that despite the actual cost of HOBAS® Pipes being higher, it was the less expensive option on a total installed cost basis. According to Jersey and Son, the cost of the cloth liner, extra bedding and additional labor for a more difficult installation clinched the decision. "Also, it would provide an end product that Clean Water Services could be comfortable with", said Lampert.

### HOBAS Pipe USA



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Both Lampert and Kalkhoven visited the HOBAS<sup>®</sup> Plant in Houston and were impressed by the quality process, so, even though they had never used it before, Jersey based their bid on HOBAS<sup>®</sup> CC-GRP Pipe Systems. “The quality control is just phenomenal,” Lampert exclaimed. “The computer controlled systems and state-of-the-art manufacturing process assures that the pipe is of consistent high quality.”

“It is a good application,” Lampert said, “HOBAS<sup>®</sup> Pipe really excels in large diameters and is a good option when future repairs would be difficult to make.”

Overview	
Year of Construction	2002
Length of Pipe	2.5 km
Pressure Class	PN 1
Diameter	DN 1200, 1500, 1700
Stiffness Class	SN 5000
Installation Method	Direct Bury
Application	SewerLine <sup>®</sup>
Client	Clean Water Services for Beaverton, Oregon
Contractor	John L. Jersey & Son
Advantages	Leak tightness, rugged construction, long life