

CASE STUDY NORDIPIPE™

EAGLE CREEK, US
DN910 (36 in), 95 m (311.7 ft)



The remote site and inaccessibility of the pipe required the installation equipment to be drastically offset from the installation structure.

Old welded steel pipes with a new lining

The United States Fish and Wildlife Service at Eagle Creek Fish Hatchery near Estacada, Oregon was faced with a severe problem. The 914 mm (36 in) welded steel pipe for the main water supply, located approximately 2,74 (9 ft) underground, was the oldest element of the facility and badly in need of rehabilitation. The pipe continuously brings fresh water from Eagle Creek into the fish hatchery. To guarantee the water supply, the manager of the United

States Fish and Wildlife Service, embarked upon the rehabilitation project of the 914 mm (36 in) steel pipe in June, of 2011. Although most sections of the pipe could be excavated and replaced utilizing open cut construction, one part of the pipe was extremely difficult to excavate due to its integration into the main concrete intake structure. Additionally, this section was directly adjacent to Eagle Creek and tied into a sand filtration basin that further limited the access to the pipe section.



Michels experience and SEKISUI's product were the perfect combination to finish this challenging project.



Team members install the CIPP over a hillside to access the pipe.

The solution

Because of the limited access and sensitive nature of the project location, an environmentally friendly approach was needed. Michels Pipe Service, a licensee of the SEKISUI SPR Group in America, along with the hatchery, determined that NORDIPIPE™ was the perfect trenchless rehabilitation technology for this pressure pipe requirement. The construction window was limited due to the amount of water needed for critical hatchery operations. Because the only access to the lining site was the right-of-way to the pipe that was being excavated, the installation of the NSF 61 approved NORDIPIPE™ needed to be closely coordinated with the general contractor. Michels Pipe Service started the challenging installation of the 94,18 m (309 ft) of NORDIPIPE™ liner at 7 a.m. on Monday, June 13 and ended the rehabilitation process with the curing phase by noon on Tuesday, June 14. Just one day later the AWWA Class IV fully structural NORDIPIPE™ liner was pressure tested and put back into service supplying water to the hatchery.

“The cured-in-place pipeline rehabilitation which was recently accomplished here at Eagle Creek National Fish Hatchery was quite an impressive process with extremely effective results,” said Hatchery Manager Larry Telles. “We were especially pleased with the short curing time of the liner resin and the fact that our salmon displayed absolutely no ill effects from the process. We were also deeply impressed by the minimal impact of the procedure on the environment.”

Length of section:	94,18 m (309 ft)
Diameter of the pipe:	914 m (36 in)
Test Pressure of the pipe:	150 psi

info@sekisuispr.com
www.sekisuispr.com



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