



WASTEWATER TREATMENT FACILITY IMPROVEMENTS

Plummer, Idaho

CLIENT

City of Plummer

CONTACT

Donna Spier
City of Plummer
208.686.1641

YEAR COMPLETED

2010

USKH has completed construction phase services for new wastewater treatment facilities for the City on the site of a gravel pit on the north edge of the City. The new 0.32 mgd facility has been built with modular components to allow expansion to 0.63 mgd in the future. Other key features include phosphorus removal to levels equivalent to the lowest achievable with today's technology and treatment to Class "A" water reuse standards.

The new facility discharge is via a state-of-the-art discharge header buried in a rock-crib wetland; no outflow will be visible during even the lowest flow conditions in Plummer Creek, the receiving water. Located along the north side of the Trail of the Coeur d' Alenes, the new facility is visible to the public. Visual appearance, odor and noise control have been important components of the design.

The new facility has been designed and constructed with low maintenance and operations costs in mind. The primary and secondary treatment and sludge digestion are all part of an extended aeration package with integrated controls, equipment, and walkways. The headworks includes low-maintenance static screens that the operator merely sprays down occasionally and changes garbage carts in and out to remove collected solids. The disinfection system includes ultra-violet radiation channels with easy-to-change fluorescent tubes. The disinfection and sludge handling systems are located inside to ease maintenance in Plummer's severe winter weather.

The project required NEPA documentation for U.S. Department of Agriculture Rural Development (USDA-RD) financing. The environmental work was conducted in tandem with design.



1. Groundbreaking ceremony for new facility
2. Filling fermentation basin of advanced aeration system
3. Placing and finishing base slab for the advanced aeration system
4. Completed wastewater treatment plant