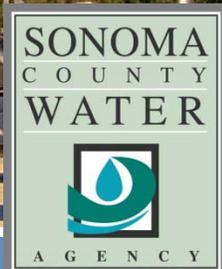


Russian River County Sanitation District



Ultraviolet Disinfection FAQs

What is the purpose of the UV project?

The Ultraviolet (UV) disinfectant project is designed to replace the current, chlorine-based disinfectant used at the Russian River County Sanitation District. This project will be capable of disinfecting peak, wet-weather flows of up to 3.5 million gallons of treated wastewater per day. By switching to a UV-based disinfectant system, the District will be able to reduce the amount of chlorine-based disinfectant used to treat wastewater.

What is UV disinfection?

An Ultraviolet disinfection system transfers electromagnetic energy from a mercury arc lamp to an organism's genetic material (DNA). When UV radiation penetrates the cell wall of an organism, it destroys the cell's ability to reproduce. UV radiation, generated by an electrical charge through mercury vapor, penetrates the genetic material of microorganisms and retards their ability to reproduce.

Why are we developing this project?

The District is developing the UV Disinfection system in cooperation with the North Coast Regional Water Quality Control Board. The wastewater treated with this program will allow the District to continue to meet California Code of Regulations, Title 22 requirements for reuse and National Pollutant Discharge Elimination System permit requirements for river discharge.

How will this program improve District operations?

Although the chlorine-based system will still be available for emergencies, the new UV Disinfection system will enhance the District's ability to protect the environment by eliminating the use of chlorine during normal operations.

What is the UV program going to cost?

The UV Disinfection system is budgeted to cost just over \$4 million. The District estimates that the new UV system will have approximately the same Operations and Maintenance costs as the chlorine-based system. The cost of the project will be paid by a loan from the State Water Resources Control Board, which will be factored as Debt Service into the RRCSD's future budgets.

Construction schedule

Construction will begin in May 2011 and the facility will be in service in 2012. An Environmental Impact Report is not required because the facility will be built on land already owned and developed by the District. A Notice of Exemption (NOE) was prepared for the project and filed with the County Clerk and State Clearinghouse.