

City of Folsom

Water Treatment Plant Backwash and Recycled Water Capacity Project

Notice of Exemption

PROJECT DESCRIPTION

The City of Folsom is proposing to upgrade the Decant Pump Station and Reclamation Backwash Basin within the existing Folsom Water Treatment Plant. The project is located on 194 Randall Drive in Folsom, California within the fence line of the Folsom Water Treatment Plant. The project objective is to upgrade existing “reclaimed backwash water” (RBW) infrastructure to improve operation resilience. The project would upgrade three elements of the RBW system: 1) Increase decant pump station (DPS) pumping capacity, 2) install DPS controls, and 3) construct new branch piping below ground to deliver RBW to the south side of the RBW Basin.

Increased DPS Pumping Capacity

The project would involve increasing the DPS capacity from 1.9 million gallons per day (MGD) to 5 MGD. To address the first project component, the existing pumping arrangement at the DPS requires three duty pumps at high flows leaving no backups in case of a pump failure. This project would replace existing pumps with new larger pumps. The larger pumps would allow the DPS to run in a two-duty pump arrangement at high flows and leave a spare pump in case of an emergency.

New DPS Controls

The new pumps would require larger conductors, therefore, a ductbank would be installed from the existing Power building going to the DPS. This ductbank would provide bigger conduits for larger conductors. The flow from the existing DPS pumps is currently controlled using a manual control valve. The plant staff would like to automate the flow control; therefore, the new pumps would utilize variable frequency drives (VFDs) to control the pumped flow based on preset flow parameters by plant staff.

New Branch Piping to the RBW Basin

Lastly, this project would add valving and branch piping on the RBW line which feeds the bifurcated RBW basin. The RBW basin is comprised of a north and south pond. Currently, the RBW piping only feeds the north side of the basin. This arrangement presents maintenance challenges because city staff is not able to isolate the north basin for maintenance. This project would add a second feed pipe on the south side of the RBW basin to allow maintenance access to the north side of the basin.

Figure 1 shows the project location and vicinity in addition to the project disturbance footprint. All work will be performed within the plant fence line. Figure 2 shows the general overall site plan.



0 37.5 75 150 Feet
1 in = 75 feet

- TREATMENT PLANT PROPERTY LINE
- PROJECT DISTURBANCE FOOTPRINT

Project Location and Vicinity
FIGURE 1

Figure 1. Project Location and Vicinity

