

Project Description:

The proposed Project consists of construction and operation of a new groundwater well, to replace an existing well, a raw water pipeline, and a new water treatment facility.

Well 25: The Well 25 component of the proposed Project consists of the design, drilling, construction, and operation of a new community groundwater well, known as Well 25. Well 25 is proposed to be approximately 16 inches in diameter and drilled to a depth of approximately 200 feet below ground surface with a target production capacity of 1,500 GPM. Well 25 would be equipped with a 75 to 150 horse power (hp) electric motor. The wellhead and approximately 200 linear feet of above-ground piping (including valves) would be constructed on top of a concrete pad. Site improvements also include an approximately 400 square foot (SF) electrical building to house the electronics to operate the well; SCADA antenna, standby backup diesel generator installed on a concrete pad in a waterproof sound attenuation enclosure; a Southern California Edison (SCE) meter and transformer, both installed on concrete pads; and driveway access to the site from Mission Boulevard. The Well 25 Site would be developed with a paved surface area, small detention basin for site runoff and well discharges, and an interior block wall enclosure for sound attenuation. For security purposes, the Well 25 Site would be enclosed with an 8-foot tall CMU wall. Access to the site will be via a locked wrought iron gate from Mission Boulevard. Minimal landscaping is anticipated.

As part of the construction of Well 25, an approximately 12-inch diameter pilot bore hole would be drilled to the expected final depth of the well. Following drilling of the bore hole, the larger diameter well would be drilled. As part of the design of the electrical building and other site improvements, two shallow geotechnical borings would be done at the Well 25 Site. These borings would be filled.

Raw Water Pipeline: The Project also includes approximately 2,640 linear feet of raw water pipeline from the wellhead at the Well 25 Site to the proposed water treatment facility. This pipeline would be constructed within public rights-of-way (ROW) within Mission Boulevard, Daly Avenue, and 34th Street. An encroachment permit from the Jurupa Valley would be required to construct this pipeline.

Water Treatment Facility: The Project also includes expansion of the existing treatment capacity for RCSD. The new treatment facility would be constructed at either the Potential Thompson Expansion Site, the Thompson Facility, or the Mahnke Facility. The treatment facility would consist of new treatment vessels and piping for either an IX or GAC water treatment system to treat the anticipated contaminants of manganese and PFAS/PFOS. The current plants have capacity to treat the District's other wells in the local area for similar contaminants. Either new treatment vessels and piping would be constructed at the Thompson Expansion Site or additional treatment vessels would be added and piping configured within the footprints of the Thompson Facility or Mahnke Facility, which would result in a net increase of treatment capacity by 1,500 GPM to accommodate planned and expected growth within RCSD's water service area and offset projected degradation in water quality to maintain system reliability.