

Escalona Monitoring Well Description

The Escalona Monitoring Well is anticipated to be completed to a depth of approximately 920 feet. The well will be constructed of four-inch diameter PVC well casing with screened casing anticipated to be installed between 865 and 880 feet below ground surface.

The Escalona Monitoring Well (SC-3) is strategically located to be part of Soquel Creek Water District's seawater intrusion monitoring system as called for in the Mid County Groundwater Association (MGA) Groundwater Sustainability Plan. The water level and water quality of the well will be periodically monitored to look for indications of seawater intrusion into aquifers used to supply potable water to the District. Data collected from the monitoring well will be used by the District and also shared with the MGA.

The well is located within the public right of way in front of 709 Escalona Drive. The well will be located to the west of three existing monitoring wells. See the attached Photo 1 for approximate location of the well.

Project Scope and contractor responsibilities include:

- Mobilization/Demobilization & Cleanup including disposal of drill cuttings and drilling fluid additives in accordance with all applicable laws and regulations
- Install a minimum 13.5-inch diameter mild steel temporary surface casing. Drill by air rotary casing hammer methods to minimum depth of 40-feet bgs.
- Drill by direct mud rotary methods a maximum 10 5/8-inch diameter exploratory borehole from the bottom of the temporary surface casing to depths indicated in Table 1.
- Perform Downhole Geophysical Surveys: Spontaneous Potential, Single-Point, 64-inch Long and 16-inch Short Normal Resistivity, Focused (Guard) Resistivity, and Gamma Ray.
- Conduct caliper survey.
- Furnish and install 4-inch SCH80 PVC machine slotted well screen (0.040-inch slot).
- Furnish and install 4-inch SCH80 PVC blank casing.
- Furnish and install hard, water-worn, at least 90 percent silica filter sands of 8x16 gradation, including 5-foot thick 3/8 bentonite pellet transition on top of filter pack.
- Furnish and install grout seal.
- Perform well development by airlift, swabbing and pumping.
- Perform a color video camera survey
- Complete capping
- All work will be conducted within normal construction working hours of 7:30AM to 5:30PM
- Anticipated duration is 18 business days.

Construction Operation and Mitigation Plan

The Escalona Well borehole will be drilled using direct mud rotary methods. Once the borehole is drilled, geophysics will be performed, and the well will be constructed in the borehole. The well will be developed after it is constructed. This construction process is anticipated to take approximately 15 business days. Drilling cuttings and fluids will be contained on site during the drilling operation and disposed of offsite at an appropriate facility once the well has been constructed.

See below construction plan details:

Work Days and Hours: Monday through Friday between 7:30 AM and 5:30 PM.

Anticipate 18 business day duration of construction

Work to take place after March 2022 and before October 2022.

Site Plan: The construction equipment (drill rig, and shaker) will be installed at the site and will remain in place for the duration of construction, including nights and weekends. Site will be secured with temporary fencing. See attached site plan.

Location/Access: All construction activities and staging would take place within the public right of way near 709 Escalona Avenue. The well location is to be west of the three existing monitoring wells as shown in Photo 1. Also attached is a survey completed by Bowman and Williams in 2013 for the project area. The approximate location of the SC-3 monitoring well is shown in red on the survey.

Contractor will access the site via Escalona Avenue. Contractor parking during work hours would be along Escalona Avenue. Number of vehicles would be no more than five.

Construction Noise Mitigation: Notification letters will be sent out to all residents within 200 feet of the project site notifying them of the upcoming construction activities and will provide a noise complaint hotline phone number to call with any questions or complaints.

During construction, the project site will be secured with 6' - 8' tall temporary fencing and the contractor will install sound dampening blankets over the fencing to help reduce noise impacts to direct neighbors.

As stated above, all construction will take place within City Noise Ordinance construction hours.

Tree Removal: The contractor would like to remove one existing plum tree from the project area. Please see the attached Photo 2.