



Santa Clara Valley Water District

File No.: 18-0115

Agenda Date: 3/13/2018

Item No.: 3.4.

BOARD AGENDA MEMORANDUM

SUBJECT:

Update on the Condition of the Almaden Valley Pipeline Inspection and Rehabilitation Project, and Determine that the Condition of the Almaden Valley Pipeline Continues to Constitute an Emergency (San Jose, Los Gatos, Unincorporated Santa Clara County) (Districts 4 and 7).

RECOMMENDATION:

- A. Receive an update on the Almaden Valley Pipeline Inspection and Rehabilitation Project; and
- B. Determine by a four-fifths vote of the Board, that there is a need to continue the emergency action declared by the Chief Executive Officer (CEO) on December 5, 2017, pursuant to California Public Contract Code §22050, to repair the Almaden Valley Pipeline (San Jose, Los Gatos, Unincorporated Santa Clara County) (Districts 4 and 7).

SUMMARY:

According to Public Contract Code §22050, in order for the emergency action to remain in place, the Board must determine, by four-fifths vote at every regularly scheduled Board meeting until the emergency action is terminated, that there is a need to continue the emergency action; this agenda item recommends the Board make such a finding.

On December 5, 2017, the CEO declared that the condition of the Almaden Valley Pipeline (AVP) constituted an emergency condition pursuant to California Public Contract Code §22050, and that District staff may repair such pipeline, take any directly related and immediate action required by that emergency, and procure the necessary equipment, services, and supplies for those purposes, without giving notice for bids to let contracts. This declaration was continued by the Board at all regularly scheduled board meetings held since the emergency was declared. The emergency condition continues to exist as the repairs to the Almaden Valley Pipeline are not yet completed.

The AVP consists of approximately 12 miles of 72-inch to 78-inch diameter Prestressed Concrete Cylinder Pipe (PCCP) and welded steel pipe (WSP). The pipeline was constructed in two major segments: AVP Unit 1 was constructed in the 1960's, and AVP Unit 2 was constructed in the 1980's. The AVP is used to supply raw water to the District's water treatment plants and groundwater recharge facilities. In 2007 and 2008, staff completed inspection and rehabilitation projects on the AVP. In 2011, staff repaired a damaged section of PCCP that was identified during an inspection of the AVP. The damage to the pipe section was caused by increased stress from a newly-constructed

bridge abutment.

As part of the 10-Year Pipeline Inspection and Rehabilitation Program, AVP inspection and rehabilitation work was initiated on October 27, 2017. Because of the AVP shutdown, the Santa Teresa Water Treatment Plant (STWTP) was also taken offline. Following three weeks of dewatering, inspection activities were performed on November 21-22, 2017. Preliminary investigation results for Unit 2 indicate a large number of distressed PCCP sections between the Santa Teresa Force Main and Calero Reservoir. The District cannot return the AVP to safe and reliable service unless significantly distressed pipe sections are repaired, and an analysis is conducted to understand why such degradation of the pipe has occurred. Failure to return the pipeline to safe and reliable service would pose a significant risk to the District's ability to provide sufficient water to meet minimum water supply demands as the District's contractual obligations for water delivery increase from winter to spring.

District staff and contractor personnel have performed an emergency inspection, detailed forensic analysis, formulated a repair strategy, and the District has awarded a public works contract to the Structural Group, Inc. to perform the repair of the pipeline; repairs are well underway on the facility. The Santa Teresa Water Treatment Plant will have to remain offline for a greater-than-anticipated duration to allow the necessary AVP repairs to be completed. If the District should lose the ability to receive imported water from the State Water Project (via the South Bay Aqueduct), there would be an immediate and substantial curtailment of water services in the County.

Repairs to the facility are underway but not yet completed. Staff is therefore recommending that the Board determine, by a four-fifths vote, that there is a need to continue the emergency action declared by the CEO, to enable timely procurement of necessary construction contract services, and other public works and non-professional services, supplies and essential equipment, without a competitive procurement process.

FINANCIAL IMPACT:

Sufficient funding for the emergency repairs is allocated in the FY18 budget due to a budget adjustment approved by the Board at its January 23, 2018 regularly scheduled meeting. The Board approved a budget adjustment transferring \$4,523,942 to the 10-year Pipeline Inspection and Rehabilitation Project, Project No. 95084002, from the 5-Year Pipeline Inspection and Rehabilitation Project, Project No. 95084001.

CEQA:

Impacts associated with the repair and maintenance activities of the Almaden Valley Pipeline were evaluated by the Pipeline Maintenance Program and the Programmatic Environmental Impact Report (PEIR), certified and approved by the Board on November 13, 2007. The California Department of Fish and Wildlife and the Regional Water Quality Control Board were properly notified to address the issued permits for the Project. The permits have been modified to address work associated with the repair of the emergency conditions. All work will be performed deploying the Valley Habitat Plan conditions and avoidance and minimization measures to prevent impacts to sensitive habitat in the

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Project vicinity.

ATTACHMENTS:

Attachment 1: Emergency Declaration

UNCLASSIFIED MANAGER:

Kurt Arends, 408-630-2284