



AGENDA STAFF REPORT

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Agenda Number: C
File ID: 0022.114.32 and 0564.02

Section Name: Engineering
Project ID: DW2301

MEETING DATE: August 13, 2024

SUBJECT: Approve Task Order No. 1 to the Professional Services Agreement with West Yost & Associates, Inc. for \$1,146,978 and Adopt Budget Amendment Resolution 24-25-001 for the Hexavalent Chromium Treatment Evaluation Project

TO: BOARD OF DIRECTORS

FROM: ENGINEERING/WATER RESOURCES DIVISION, CARRIE OLIPHANT

GENERAL MANAGER RECOMMENDATION:

RECOMMENDATION:

Authorize the General Manager to execute Task Order No. 1 to the Professional Services Agreement (PSA) with West Yost & Associates, Inc. in the amount of \$1,146,978 to Implement the Workplan for the Stannous Chloride Addition Implementation Plan Amendment (Bench-Scale and Pipe Rig Study) in the ID No. 8 public water system. It is also recommended that the Board authorize the following additional expenditures in the amount of \$225,849:

1. Contingency (5%) - \$57,349
2. Project management - \$20,000
3. District labor - \$75,000
4. Chemicals - \$10,000
5. Materials, supplies, and shipping - \$27,500
6. Laboratory analyses - \$36,000

It is further recommended that the Board adopt the attached Budget Amendment Resolution No. 24-25-001, to increase the Final Budget for Fiscal Year 2024-2025 by \$1,372,827 to fund the total cost of this request.

BUDGET IMPACT:

The total cost of Task Order No.1 is estimated to be \$1,372,827, including 5% contingency, project management, district labor, chemicals, materials, supplies and shipping, and laboratory analyses, as shown above. All costs are expected to be incurred in the fiscal year (FY) 2024-2025.

Task Order No. 1 will add additional work to the Hexavalent Chromium Treatment Evaluation Project (DW2301).

Funding of \$678,243 for Project DW2301 was included in the Domestic Water Fund FY 2024-2025 Capital Improvement Budget, as shown in the table below. A budget amendment to increase the Domestic Water Fund FY 2024-2025 Capital Improvement Budget by \$1,372,827 is being requested to cover the total cost of the work.

Job	Cost	Board Approval	FY 2024-2025 Funding
PSA with West Yost - Evaluation of Options to Comply with California's Proposed Hexavalent Chromium Maximum Contaminant Level	\$1,228,251	January 1, 2024	\$678,243 was included in the Domestic Water Fund Capital Improvement Budget
Task Order No 1 – Implementation of the Workplan for the Stannous Chloride Addition Implementation Plan Amendment	\$1,372,827	Pending Approval	Budget amendment in the amount of \$1,372,827 is being requested

PROCUREMENT METHOD:

X Other

If other, please explain: Procurement for the PSA with West Yost was through a formal RFP and selected in accordance with CVWD procurement guidelines. The RFP advertised through PlanetBids stated that the costs of the pipe rig study would be negotiated at the time of the State Water Board's approval of the workplan as an amendment to the awarded PSA.

BACKGROUND

On April 17, 2024, the State Water Resources Control Board (State Water Board) adopted the proposed regulation for hexavalent chromium (Cr-6) establishing a maximum contaminant level (MCL) for drinking water of 10 ug/L. The compliance period to meet the MCL is two years for water systems with $\geq 10,000$ service connections and three years for water systems with 1,000 to $<10,000$ service connections. CVWD operates two public water systems impacted by the adopted Cr-6 regulation – the Cove Community and the ID No. 8 public water systems. The compliance periods are two years for the Cove Community and three years for ID No. 8.

The Cr-6 regulation identified three treatment technologies as Best Available Technologies (BATs): ion exchange, reduction/coagulation/filtration (RCF), and reverse osmosis; but also recognized that there are conditions in which other means of compliance may be available, including the use of stannous chloride (SnCl_2) to reduce Cr-6 to Cr-3 without filtration. In its Initial Statement of Reasons for the Hexavalent Chromium Maximum Contaminant Level (MCL) Regulation (ISOR), the State Water Board acknowledged that there may be conditions in which SnCl_2 could be a viable treatment technology. The State Water Board explained that for SnCl_2 without filtration to be considered as an option, additional information on the capability of the technology would be necessary, including information on reoxidation in the distribution system, the ability to meet the MCL without exceeding the tin (Sn) NSF 60 maximum use level (MUL) of 0.063 mg/L, as well as the fate of all forms of chromium (Cr) throughout the system. The ISOR stated that the State Water Board intended to request additional evaluation if this technology is proposed to meet the MCL.

On September 27, 2023, State Water Board issued a conditional approval for CVWD to extend a full-scale demonstration project in the ID No. 8 system to gather more data to address areas of uncertainty regarding the use of SnCl_2 without filtration to meet the Cr-6 MCL, including the fate of Sn and Cr-6 in the distribution system. State Water Board conditioned the approval on the submittal of a workplan by March 31, 2024, adding premise plumbing monitoring protocols and a pipe rig study to evaluate Sn and Cr accumulation on different pipe materials representative of the distribution system and premise plumbing.

The Workplan for the Stannous Chloride Addition Implementation Plan Amendment (Amendment Workplan), prepared under the PSA with West Yost, was submitted to the State Water Board on March 29, 2024, and formally approved on May 17, 2024. CVWD must implement the activities in the Amendment Workplan to support State Water Board's potential approval of the use of SnCl_2 without filtration as a treatment technology to meet the Cr-6 MCL. CVWD seeks to amend the PSA with West Yost to add Task Order No. 1 to complete the work in the Amendment Workplan, including bench-scale testing, fabrication of a pipe rig, and implementation of the pipe rig study.

PRIOR BOARD ACTION:

On January 23, 2024, the Board of Directors approved a PSA with West Yost in for \$1,141,191 to evaluate options to comply with the Cr-6 MCL, including development of the Amendment Workplan and an update to the 2015 Domestic Water System Source of Supply/Treatment Study to evaluate other treatment and non-treatment options to comply with the Cr-6 MCL. The total request approved by the Board, including 5% contingency and project management costs, was \$1,228,251.

DISTRICT STRATEGIC PLAN GOAL(S)/OBJECTIVES(S):

Approval of this Project aligns with the CVWD core value of Water Quality and Environmental Leadership

ENVIRONMENTAL IMPACT:

This is not a project as defined by CEQA; therefore, approval does not require any CEQA action.

PUBLIC NOTICE REQUIRED

N/A

LEGAL REVIEW

N/A

ATTACHMENTS

Att 1 – Presentation

Att 2 – FY 2024-2025 Budget Amendment Resolution

Att 3 – Task Order No. 1 to the PSA with West Yost

Att 4 – State Water Board Approval of Amendment Workplan