



Agenda Report

File #: 2023-2785, Version: 1

FROM: Robert Thompson, General Manager
Originator: Kathy Millea, Director of Engineering

SUBJECT:

NEWPORT BEACH PUMP STATION PRESSURIZATION IMPROVEMENTS, PROJECT NO. 5-68

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION:

- A. Receive and file Bid Tabulation and Recommendation for Newport Beach Pump Station Pressurization Improvements, Project No. 5-68;
- B. Award a Construction Contract to Innovative Construction Solutions for Newport Beach Pump Station Pressurization Improvements, Project No. 5-68, for an amount not to exceed \$937,500; and
- C. Approve a contingency of \$93,750 (10%).

BACKGROUND

The Orange County Sanitation District (OC San) operates seven pump stations in the City of Newport Beach coastal region which, together with the sewer trunk lines and force mains, convey flows to OC San Plant No. 2 in Huntington Beach. Air with significant concentrations of odorous, corrosive, and potentially hazardous gasses is also transported in the trunk lines. These pump stations were designed 15-50 years ago by different design consultants.

RELEVANT STANDARDS

- Comply with California Public Contract Code Section 20103.8, award construction contract to lowest responsive, responsible bidder
- 12 or fewer odor complaints per year under normal operating conditions in the collection system
- Operate and maintain facilities to minimize impacts on surrounding communities, including odor, noise, and lighting
- Commitment to safety & reducing risk in all operations

PROBLEM

The pump stations have inadequate venting, which can lead to pressurization of odor and hazardous gasses. When pressurized, these odors and gasses can escape via plumbing in the onsite bathroom facilities and any other connections to the wet wells, which can cause an unsafe condition for staff within the pump station and can also corrode the existing facilities. As an interim measure, staff has sealed all suspected leakage points, including bathroom facilities, but there is a continuing risk of gas leakage and hazardous gas buildup. In addition, more staff time is needed to monitor and address the buildup of hazardous gasses.

PROPOSED SOLUTION

Award a construction contract for Newport Beach Pump Station Pressurization Improvements, Project No. 5-68. The project will install a passive venting system at six of the pump stations to relieve the buildup of pressurized odor and hazardous gasses (the seventh pump station is being addressed by a separate pump station replacement project). The odorous air will be treated by adsorption media prior to being released into the atmosphere. Additionally, provisions will be added at the 15th Street Pump Station for a vendor-operated and maintained chemical feed system to mitigate the downstream generation of hydrogen sulfide in the Balboa Trunk Sewer.

TIMING CONCERNS

If the project is delayed, the collection system and pump stations will continue to see pressure buildup issues. This may cause the uncontrolled release of corrosive and hazardous gasses in the pump stations and odor complaints from the surrounding areas, which can cause a safety issue and can also further deteriorate existing equipment at the pump stations.

RAMIFICATIONS OF NOT TAKING ACTION

The collection system and pump stations will continue to see pressure buildup issues. This may cause the uncontrolled release of corrosive and hazardous gasses in the pump stations and odor complaints from the surrounding areas.

PRIOR COMMITTEE/BOARD ACTIONS

N/A

ADDITIONAL INFORMATION

OC San advertised Project No. 5-68 for bids on September 27, 2022, and seven sealed bids were received on November 15, 2022. A summary of the bid opening follows:

Engineer's Estimate	\$1,412,000
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<u>Bidder</u>	<u>Amount of Bid</u>
Innovative Construction Solutions	\$937,500
Tharsos, Inc.	\$1,034,000

T.E. Roberts, Inc.	\$1,241,370
Environmental Construction, Inc.	\$1,320,819
Mehta Mechanical Co. Inc. dba MMC Inc.	\$1,374,000
Arnaz Engineering Contractors, Inc.	\$1,945,000
Austin Kazoni Inc dba Kazoni Construction	\$3,173,021

The bids were evaluated in accordance with the OC San's policies and procedures. A notice was sent to all bidders on December 22, 2022, informing them of the intent of OC San staff to recommend award of the Construction Contract to Innovative Construction Solutions.

Staff recommends awarding a Construction Contract to the lowest responsive and responsible bidder, Innovative Construction Solutions, for a total amount not to exceed \$937,500.

CEQA

The Project is included in the Facilities Master Plan 2020 Program Environmental Impact Report, State Clearinghouse Number 2019070998.

FINANCIAL CONSIDERATIONS

This request complies with authority levels of OC San's Purchasing Ordinance. This item has been budgeted (Adopted Budget, Fiscal Years 2022-2023 and 2023-2024, Section 8, Page 28, Newport Beach Pump Station Pressurization Improvements, Project No. 5-68) and the budget is sufficient for the recommended action.

ATTACHMENT

The following attachment(s) may be viewed on-line at the OC San website (www.ocsan.gov) with the complete agenda package:

- Construction Contract Agreement

AB: jw