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

Sponsors: Kathy Millea

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Attachments: 1. Agenda Report, 2. 5-68 Professional Design Services Agreement, 3. File Summary

Date	Ver.	Action By	Action	Result
5/6/2020	1	OPERATIONS COMMITTEE		

FROM: James D. Herberg, General Manager
Originator: Kathy Millea, Director of Engineering

SUBJECT:

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

GENERAL MANAGER'S RECOMMENDATION

RECOMMENDATION: Recommend to the Board of Directors to:

- A. Approve a Professional Design Services Agreement with Dudek to provide Engineering Services for Newport Beach Pump Station Pressurization Improvements, Project No. 5-68, for an amount not to exceed \$542,988; and
- B. Approve a contingency of \$54,299 (10%).

BACKGROUND

The Orange County Sanitation District (Sanitation District) operates seven pump stations in the City of Newport Beach which, together with the sewer trunk lines and force mains, convey flows to Plant No. 2. 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

- 12 or fewer odor complaints per year under normal operating conditions in the collections system
- Operate and maintain facilities to minimize impacts on surrounding communities, including

- odor, noise, and lighting
- Comply with Government Code Section 4526: Select the “best qualified firm” and “negotiate”

PROBLEM

The pump stations have inadequate venting, which can lead to the escape of odor and hazardous gasses. At the Lido Pump Station, the gasses contributed to equipment failure that led to a sewage spill. 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

Implement Newport Beach Pump Station Pressurization Improvements, Project No. 5-68, which will install a passive venting system at each pump station to relieve the buildup of pressure. 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 collections 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.

RAMIFICATIONS OF NOT TAKING ACTION

The collections 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

Consultant Selection

The Sanitation District requested and advertised for proposals for Newport Beach Pump Station Pressurization Improvements, Project No. 5-68, on January 14, 2020. The following evaluation criterion were described in the Request for Proposals and used to determine the most qualified Consultant.

Criterion	Weight
Project Understanding and Approach	50%
Related Project Experience	20%

Project Team and Staff Qualifications	30%
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Two proposals were received on February 18, 2020 and evaluated in accordance with the evaluation process set forth in the Sanitation District's Purchasing Ordinance by a pre-selected Evaluation Team consisting of the following Sanitation District staff: Senior Engineer (Project Manager), Principal Environmental Specialist (Collections Staff), Engineering Supervisor, and Engineering Supervisor (Non-voting member).

The Evaluation Team also included one non-voting representative from the Contracts Administration Division.

The Evaluation Team scored the proposals based on the established criteria as summarized in the table below.

	Firm	Approach (max 50)	Related Exper. (max 20)	Team (max 30)	Total Score (max 100)
1	Dudek	43	17	26	86
2	Hazen Sawyer	35	15	22	72

Based on the scoring shown above, Dudek was selected as the most qualified Consultant.

The selected firm presented a clear understanding of the project's risks and associated approaches to address them in a simple manner. In addition, all their key staff are local, allowing for prompt and cost-effective coordination. Members of the proposed team are familiar with these pump stations and are experienced in odor control. The proposed team's experience, qualifications, and staff utilization best matched the Sanitation District's needs for this project.

Review of Fee Proposal and Negotiations

Proposals were accompanied by sealed fee proposals. In accordance with Sanitation District's Purchasing Ordinance, the fee proposal of only the highest-ranked firm was opened after approval of the Evaluation Committee's recommendation by the Director of Engineering.

Multiple meetings were held with Dudek to review, in detail, each project element, the assumptions regarding the project elements, the requirements of each task in the scope, and the basis for estimating the associated level of effort. Dudek had proposed a higher level of effort for several project elements. After meeting with the project stakeholders, staff, along with Dudek, determined several of the original project elements were not needed such as utility investigation effort, permitting assistance, equipment, instrumentation, and controls. Based on this review, assumptions were agreed upon, the Scope of Work was clarified, and the estimated level of effort substantially reduced.

	Total Hours	Total Fee
Original Fee Proposal	7,040	\$1,557,626
Negotiated Fee Proposal	2,801	\$542,988

The Consultant's fringe and overhead costs, which factor into the billing rate, have been

substantiated. The contract profit is 9.91%, which is based on an established formula included in the Sanitation District's standard design agreements.

Based on the above, staff has determined that the final negotiated fee is fair and reasonable for the level of effort required for this project and recommends award of the Professional Design Services Agreement to Dudek.

CEQA

This project is included in the Facilities Master Plan CEQA Program Environmental Impact Report, which will be completed and presented to the Board of Directors in September for certification.

FINANCIAL CONSIDERATIONS

This request complies with authority levels of the Sanitation District's Purchasing Ordinance. This item has been budgeted. (Budget Update FY2019-20, Appendix A, Page A-7) and the project budget is sufficient for the recommended action.

ATTACHMENT

The following attachment(s) may be viewed on-line at the OCSD website (www.ocsd.com) with the complete agenda package:

- Professional Design Services Agreement

TL:dm