THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

BOARD ACTION

- **Board of Directors**
  Engineering and Operations Committee

7/12/2022 Board Meeting

7-3

Subject

Authorize an agreement with Jacobs Engineering Group, Inc. for a not-to-exceed amount of $700,000 to perform final design of security upgrades at the Joseph Jensen Water Treatment Plant; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA

Executive Summary

Metropolitan safeguards critical infrastructure and personnel through a multi-layered combination of physical barriers, contracted security guard services, employee awareness, and a physical security system. A comprehensive assessment has identified the need for enhancements to the existing security measures at the Joseph Jensen Water Treatment Plant (Jensen plant). The planned improvements are consistent with Metropolitan's latest security and technology standards for essential facilities. This action authorizes a professional services agreement for final design to upgrade the security features at the Jensen plant.

Details

Background

The Jensen plant was placed into service in 1972 with an initial capacity of 400 million gallons per day (mgd) and expanded to its current capacity of 750 mgd in the 1990s. Located in Granada Hills, the Jensen plant normally treats water from the West Branch of the State Water Project and delivers it to Metropolitan's Central Pool and to exclusive service areas on the west side of the distribution system.

The Jensen plant site encompasses over 150 acres bounded by Balboa Boulevard and San Fernando Road to the north-east and north-west, and the Los Angeles Department of Water and Power property line to the south. The plant site boundaries are delineated by 13,000 linear feet of chain link fence, with 24-hour per day staffed entrances at Balboa Boulevard and San Fernando Road. Approximately 5,000 linear feet of security network cable support an array of video surveillance equipment and badge readers at plant entrances and sensitive areas. These devices were installed in the 1990s with the technology and bandwidth standards of the time.

In recent years, staff has conducted comprehensive threat and physical security assessments of the Jensen plant site and identified critical locations requiring additional video surveillance, lighting, and motion detection. Following these findings, staff initiated preliminary design to upgrade the Jensen plant site security system in accordance with Metropolitan's latest security and technology standards for essential facilities. The devices that require upgrades include video surveillance, lighting and motion detection, public address systems, security network infrastructure, physical barriers, entrances, and signage. Preliminary design of the security enhancements has now been completed, and staff recommends moving forward with final design.

In accordance with the April 2022 action on the biennial budget for Fiscal Years 2022/23 and 2023/24, the General Manager will authorize staff to proceed with the action described herein, pending board authorization of the agreement described below. Based on the current Capital Investment Plan (CIP) expenditure forecast, funds for work to be performed pursuant to this action during the current biennium are available within the CIP Appropriation for Fiscal Years 2022/23 and 2023/24 (Appropriation No. 15525). This project has been reviewed in accordance with Metropolitan's CIP prioritization criteria and was approved by Metropolitan's CIP evaluation team to be included in the Treatment Plant Reliability Program.

Jensen Plant Site Security Upgrades – Final Design

Throughout the Jensen plant, site security will be enhanced through the installation of new features including cameras with high-resolution capability to meet the latest bandwidth requirements; new LED lighting and perimeter motion detection at critical locations; public announcement system at both plant entrances for secure outside communication; additional badge readers for improved access control; break resistance film on exterior windows at the Administration Building; and perimeter landscape improvements to screen critical facilities of the plant.

Planned final design activities will be conducted with a hybrid effort of consultant and Metropolitan staff; consultant activities are described below. Metropolitan staff will plan and coordinate final design with the facility's users; perform structural and civil design; and provide environmental support, project management, and consultant oversight.

A total of $1,329,000 is required for this work. Allocated funds include $700,000 for final design by Jacobs Engineering Group, Inc., as described below. Allocated funds for Metropolitan staff activities include $210,000 for structural and civil design, and technical oversight and review of consultant's work; $219,000 for environmental support, project management, and project controls; and $200,000 for remaining budget. **Attachment 1** provides the allocation of the required funds.

As described above, final design will be performed by Jacobs Engineering Group and Metropolitan staff. Engineering Services' performance metric target range for final design with construction more than $3 million is 9 to 12 percent. For this project, the performance metric goal for final design is 12 percent of the total construction cost. The estimated cost of design is $910,000, which includes $700,000 for Jacobs Engineering Group and $210,000 for Metropolitan staff. The estimated cost of construction for this project is anticipated to range from $7.5 million to $8.5 million.

Engineering Services (Jacobs Engineering Group, Inc.) – New Agreement

Jacobs Engineering Group, Inc. is recommended to perform final design to upgrade the security features at the Jensen plant. Jacobs Engineering was prequalified through Request for Qualification No. 1215 and was selected based on the firm's expertise in security systems for large commercial/industrial properties including water treatment plants. Jacobs Engineering completed the preliminary design for this project under an existing agreement.

The planned final design activities will include: (1) development of final design drawings and specifications; (2) equipment procurement support; and (3) preparation of an engineer's cost estimate.

This action authorizes an agreement with Jacobs Engineering Group, Inc. for a not-to-exceed amount of $700,000 for final design to upgrade the security features at the Jensen plant site. For this agreement, Metropolitan has established a Small Business Enterprise participation level of 25 percent. Jacobs Engineering has agreed to meet this level of participation. The planned subconsultant for this work is DRP Engineering.

Alternatives Considered

Alternatives considered for completing final design activities for the Jensen plant site security upgrades included assessing the availability and capability of in-house Metropolitan staff to conduct this work. Metropolitan's staffing strategy for utilizing consultants and in-house Metropolitan staff has been: (1) to assess current work assignments for in-house staff to determine the potential availability of staff to conduct this work; and (2) for long-term rehabilitation projects when resource needs exceed available in-house staffing or require specialized technical expertise.

In the case of this project, Metropolitan staff maintains the core competencies and technical capabilities to perform the design work for civil and structural project elements. The consultant will be relied upon to design the specialized security equipment, supporting infrastructure, and related electrical and instrumentation components. In this manner, in-house staff will continue to address a baseload of work on capital projects, while the professional services agreement will be relied upon to perform work that falls outside of the core competencies of in-house staff. This approach will allow for the efficient and timely completion of this project.

Summary

This action authorizes an agreement with Jacobs Engineering Group, Inc. for a not-to-exceed amount of $700,000 to perform final design for security upgrades at the Jensen plant. See **Attachment 1** for the Allocation of Funds; and **Attachment 2** for the Location Map.

Project Milestone

May 2023 – Completion of final design of security upgrades at Jensen

Policy

Metropolitan Water District Administrative Code Section 5108: Appropriations

Metropolitan Water District Administrative Code Section 8121: General Authority of the General Manager to Enter Contracts

Metropolitan Water District Administrative Code Section 11104: Delegation of Responsibilities

By Minute Item 52778, dated April 12, 2022, the Board appropriated a total of $600 million for projects identified in the Capital Investment Plan for Fiscal Years 2022/23 and 2023/24.

California Environmental Quality Act (CEQA)

CEQA determination for Option #1:

The proposed action is categorically exempt under the provisions of CEQA and the State CEQA Guidelines. The overall activity involves the funding, studying, carrying out preliminary design, and preparing and processing environmental documentation for the proposed action. These activities consist of basic data collection and resource evaluation activities that do not result in a serious or major disturbance to an environmental resource. This may be strictly for information gathering purposes, or as part of a study leading to an action, which a public agency has not yet approved, adopted, or funded. Accordingly, the proposed action qualifies for a Class 6 Categorical Exemption (Sections 15306 of the State CEQA Guidelines).

CEQA determination for Option #2:

None

Board Options

Option #1

Authorize an agreement with Jacobs Engineering Group, Inc. for a not-to-exceed amount of $700,000 to perform final design for security upgrades at the Jensen plant.

Fiscal Impact: $700,000 in capital funds. Approximately $700,000 in capital funds will be incurred in the current biennium and has been previously authorized.
Business Analysis: This option will bring the plant site security features up to the latest industry and Metropolitan standards.

Option #2

Do not proceed with an agreement at this time.
Fiscal Impact: None
Business Analysis: This option would forego an opportunity to enhance the Jensen plant site security and improve protection for critical infrastructure and personnel.

Staff Recommendation

Option #1

6/22/2022
John V. Bednarski *Date*
Manager/Chief Engineer

6/28/2022
Adel Hagekhalil *Date*
General Manager

Attachment 1 – Allocation of Funds

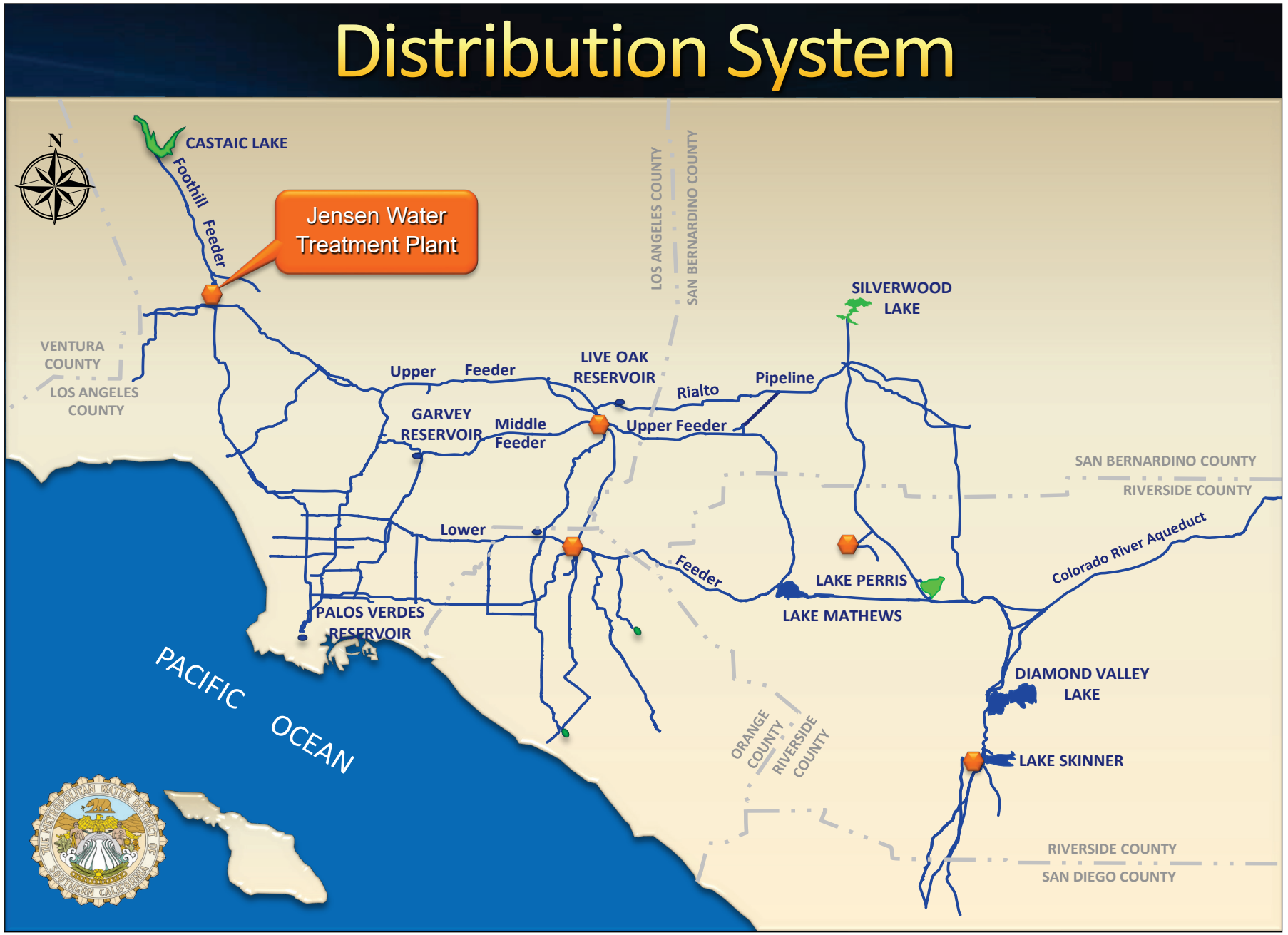
Attachment 2 – Location Map

Ref# es12682474

Allocation of Funds for Jensen Plant Site Security Upgrades

	Current Board Action [1] (July 2022)
Labor	
Studies & Investigations	$ -
Final Design	210,000
Owner Costs (Program mgmt., envir. planning)	219,000
Submittals Review & Record Drwgs.	-
Construction Inspection & Support	-
Metropolitan Force Construction	-
Materials & Supplies	-
Incidental Expenses	-
Professional/Technical Services	
Jacobs Engineering Group	700,000
Right-of-Way	-
Equipment Use	-
Contracts	-
Remaining Budget	200,000
Total	**$ 1,329,000**

1 The total amount expended to date to upgrade the Jensen plant site security system is approximately $900,000. The total estimated cost to complete the project, including the amount allocated to date, current funds requested, and future construction cost, is approximately $9.5 million.


Distribution System
N
CASTAIC LAKE
Foothill Feeder
Jensen Water Treatment Plant
LOS ANGELES COUNTY
SAN BERNARDINO COUNTY
SILVERWOOD LAKE
VENTURA COUNTY
LOS ANGELES COUNTY
Upper Feeder
LIVE OAK RESERVOIR
Rialto Pipeline
GARVEY RESERVOIR
Middle Feeder
Upper Feeder
SAN BERNARDINO COUNTY
RIVERSIDE COUNTY
Lower Feeder
Colorado River Aqueduct
LAKE PERRIS
LAKE MATHEWS
PALOS VERDES RESERVOIR
PACIFIC OCEAN
DIAMOND VALLEY LAKE
ORANGE COUNTY
RIVERSIDE COUNTY
LAKE SKINNER
RIVERSIDE COUNTY
SAN DIEGO COUNTY