



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

3/11/2025 Board Meeting

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7-1

## Subject

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Award a \$407,740.66 procurement contract to Ireland Inc. (dba Core-Rosion Products) to furnish two sodium hypochlorite tanks for the Copper Basin Reservoir; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA

## Executive Summary

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The Copper Basin Reservoir has two 15,000-gallon fiberglass-reinforced plastic (FRP) tanks that store and continuously dispense sodium hypochlorite as part of a system to protect the Colorado River Aqueduct (CRA) system from quagga mussel infestation. Recent inspections of the tanks revealed significant degradation of the interior corrosion barrier in each tank. Failure of the tanks would disrupt the chlorination process, jeopardize quagga mussel control, and potentially disrupt CRA operations. Staff recommends award of the tank procurement contract at this time.

This action awards a \$407,740.66 procurement contract to Ireland Inc. (dba Core-Rosion Products) to furnish two 15,000-gallon FRP tanks for the Copper Basin Reservoir. See **Attachment 1** for the Allocation of Funds, **Attachment 2** for the Abstract of Bids, and **Attachment 3** for the Location Map.

## Proposed Action(s)/Recommendation(s) and Options

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### Staff Recommendation: Option #1

#### Option #1

Award a \$407,740.66 procurement contract to Ireland Inc. dba Core-Rosion Products to furnish two 15,000-gallon fiberglass-reinforced tanks for the Copper Basin Reservoir.

**Fiscal Impact:** Expenditure of \$590,000 in capital funds. All costs will be incurred in the current biennium and have been previously authorized.

**Business Analysis:** This option will enhance the reliability of the Colorado River Aqueduct and protect the system from quagga mussel infestation.

#### Option #2

Do not proceed with the project at this time.

**Fiscal Impact:** None

**Business Analysis:** This option would forego an opportunity to protect the Colorado River Aqueduct conveyance system from quagga mussel infestation.

## Alternatives Considered

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Staff considered relining the existing tanks. Upon inspection, it was determined that the interior corrosion barrier of the tanks had deteriorated, and relining would not significantly strengthen the structural integrity or extend the life span of the tanks. Further, the required extensive rehabilitation will result in a cost comparable to

replacement. The selected alternative will replace the tanks, providing long-term reliability and flexibility to ensure uninterrupted CRA water deliveries.

### **Applicable Policy**

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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

### **Related Board Action(s)/Future Action(s)**

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By Minute Item 53598, dated April 8, 2024, the Board appropriated a total of \$636.48 million for projects identified in the Capital Investment Plan for Fiscal Years 2024/2025 and 2025/2026.

### **California Environmental Quality Act (CEQA)**

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#### **CEQA determination for Option #1:**

The proposed action is exempt from CEQA because there is no potential for the activity in question to have a significant effect on the environment.

#### **CEQA determination for Option #2:**

None required

### **Details and Background**

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#### **Background**

The CRA is a 242-mile-long conveyance system that transports water from the Colorado River to Lake Mathews. It consists of five pumping plants, 124 miles of tunnels, siphons, reservoirs, 63 miles of canals, and 55 miles of cut-and-cover conduits. The aqueduct was constructed in the late 1930s and placed into service in 1941.

The Copper Basin Reservoir was constructed in 1938 and is located downstream of the Gene Pumping Plant. It holds 24,200 acre-ft of water. The reservoir stores water and controls flow along the CRA system. Quagga mussels were first encountered within the CRA system in 2007. Quagga mussels are invasive species that prolifically breed and grow in layers on surfaces. This can have a detrimental effect on the CRA conveyance system and the equipment within the pumphouses. A sodium hypochlorite storage and feed facility was constructed at Copper Basin Reservoir in 2008 to protect the CRA system from quagga mussel infestation. Continuous dosing with sodium hypochlorite is a proven mitigation method against quagga mussel growth.

This facility has two 15,000-gallon FRP tanks that store and dispense sodium hypochlorite in a controlled manner for maximum effectiveness. These FRP tanks were replaced in 2018. FRP tanks in sodium hypochlorite service generally have a life span of 8 to 10 years. During the 2024 CRA shutdown, Metropolitan staff performed inspections of the two tanks and found them in poor condition. The observed tank deterioration consisted of structurally compromised corrosion barriers, separation cracks, and exposed fiberglass. Due to the deteriorated condition of these tanks, staff recommends replacement of the tanks. The tanks will be installed by Metropolitan forces following their fabrication and delivery to the project site.

#### **Copper Basin Reservoir Sodium Hypochlorite Tanks Replacement - Procurement**

This procurement contract will provide two sodium hypochlorite storage tanks, each 14 feet in diameter and 17 feet tall, with a storage capacity of 15,000 gallons. The tanks are constructed with thicker fiber-reinforced plastic and resin corrosion barriers, which provide improved structural properties and life spans. Metropolitan forces will receive, offload, and replace the existing tanks with the newly purchased tanks.

A total of \$590,000 is required to perform this work. In addition to the amount of the procurement contract described below, the allocated funds for Metropolitan staff include \$49,000 for factory fabrication inspection; \$15,000 for Metropolitan force construction to receive and offload at the site; \$47,000 for submittals review and responding to manufacturer requests for information; \$56,000 for contract administration and project

management; and \$15,259.34 for the remaining budget. **Attachment 1** provides the allocation of the required funds.

***Award of Procurement Contract***

Specifications No. ME-5547 for furnishing two 15,000-gallon FRP tanks was advertised for bids on December 13, 2024. As shown in **Attachment 2**, five bids were received and opened on January 22, 2025. The bid from Ireland Inc. (dba Core-Rosion Products) in the amount of \$407,740.66 complies with the requirements of the specifications. This amount includes delivery and all sales and use taxes imposed by the state of California. The other bids, including taxes, ranged from approximately \$432,000 to \$703,000.

This action awards a \$407,740.66 procurement contract to Ireland Inc. dba Core-Rosion Products to furnish two 15,000-gallon FRP tanks for the Copper Basin Reservoir. As a procurement contract, there are no subcontracting opportunities, and no Small Business Enterprise participation level was established for this contract.

***Project Milestone***

September 2025 – Delivery of tanks

	2/25/2025
_____ Mai M. Hattar Interim Chief Engineer Engineering Services	Date

	2/25/2025
_____ Deven Upadhyay General Manager	Date

**Attachment 1 – Allocation of Funds**

**Attachment 2 – Abstract of Bids**

**Attachment 3 – Location Map**

Ref#es12702337

### Allocation of Funds for Copper Basin Reservoir Sodium Hypochlorite Tanks Replacement

	<b>Current Board Action (Mar. 2025)</b>
Labor	
Studies & Investigations	\$ -
Final Design	-
Owner Costs (Program mgmt., envir. monitoring)	56,000
Submittals Review & Record Drwgs.	47,000
Construction Inspection & Support	49,000
Metropolitan Force Construction	15,000
Materials & Supplies	-
Incidental Expenses	-
Professional/Technical Services	-
Right-of-Way	-
Equipment Use	-
Contract	-
Ireland Inc. dba Core-Rosion Products	407,740.66
Remaining Budget	<u>15,259.34</u>
<b>Total</b>	<b><u><u>\$ 590,000</u></u></b>

The total amount expended to date to replace the Copper Basin Reservoir sodium hypochlorite tanks is approximately \$100,000. The total estimated cost to complete the procurement and installation of the Copper Basin Reservoir Sodium Hypochlorite Tanks including the amount appropriated to date, funds allocated for the work described in this action, and future construction costs, is anticipated to range from \$1,100,000 to \$1,300,000.

**The Metropolitan Water District of Southern California**  
**Abstract of Bids Received on January 22, 2025, at 11:00 A.M.**  
**Specifications No. ME-5547**  
**Chemical Storage Tanks Fiberglass Reinforced Plastic**

The work includes furnishing and delivery of two 15,000-gallon fiberglass reinforced plastic tanks for Copper Basin Reservoir.

Budgetary range estimate: \$400,000 – \$450,000

<b>Bidder and Location</b>	<b>Total<sup>1,2</sup></b>
Ireland Inc. dba Core-Rosion Products Signal Hill, CA	<b>\$381,984.00</b>
Blue Angel International LLC Berkeley, CA	\$400,930.00
Environmental Water Solutions Inc. Gardena, CA	\$643,351.92
MISCOwater Foothill Ranch, CA	\$650,824.00
DXP Enterprises Inc. Anaheim, CA	\$652,255.00

<sup>1</sup> Excludes delivery and taxes of 7.75 percent imposed by the state of California. The total award amount for the low bid is \$407,740.66.

<sup>2</sup> As a procurement contract, there are no subcontracting opportunities.

Location Map

