



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

10/13/2020 Board Meeting

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7-2

**Subject**

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Award \$276,373 contract to Minako American Corp. for rehabilitation of the wave attenuator at Diamond Valley Lake; the General Manager has determined that the proposed action is exempt or otherwise not subject to CEQA

**Executive Summary**

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The floating wave attenuator at Diamond Valley Lake was constructed in 2006 and has deteriorated after 14 years of operation. In order to continue to protect boats and the launch ramp from wave action, staff recommends that the existing wave attenuator be rehabilitated at this time. This action awards a contract to rehabilitate the existing floating wave attenuator at Diamond Valley Lake.

**Details**

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**Background**

The Diamond Valley Lake east marina provides public access for private boat launches and rentals. Wind-generated waves on the lake can create challenging conditions for boaters in launch areas and pose a risk of property damage. In 2006, a floating wave attenuator was constructed to diminish the impact of wind-generated waves traveling across the lake in a manner that protects the boat ramp launch operations.

The floating wave attenuator consists of 16 reinforced concrete box segments, which are connected with post-tensioned cables running throughout its length. The attenuator is 800 feet long by 8 feet wide with a depth of 8 feet and includes a metal skirt system extending down below the waterline. The floating wave attenuator is located in the lake approximately 1,300 feet away from the boat ramp and is held in place with a system of anchors and cables.

Since its initial installation, the existing wave attenuator has reliably provided this protective function. However, after 14 years of service in a harsh environment, the wave attenuator has suffered significant damage, including cracked concrete sections with exposed reinforcing bars. In addition, some of the post-tensioned cables are broken and no longer connect the concrete box segments, resulting in a non-rigid and structurally inefficient structure. Under its current condition, the wave attenuator has a reduced ability to dampen waves during periods of high winds and waves. If the wave attenuator is allowed to deteriorate further, visitors may not be able to safely maneuver and berth boats at the docking facilities.

In accordance with the April 2020 action on the biennial budget for Fiscal Years 2020/21 and 2021/22, the General Manager will authorize staff to proceed with the rehabilitation of the Diamond Valley Lake floating wave attenuator, pending board award of the construction contract described below. Based on the current Capital Investment Plan (CIP) expenditure forecast, funds for the work to be performed pursuant to this action during the current biennium are available within the CIP Appropriation for Fiscal Years 2020/21 and 2021/22 (Appropriation No. 15517). 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 Distribution System Reliability Program.

### **Diamond Valley Lake Wave Attenuator Rehabilitation – Construction**

The scope of the construction includes replacing 900 feet of cable tendons that link the 16 reinforced box segments; replacement of polyurethane spacers that separate and buffer the reinforced box segments; and replacement of damaged concrete.

A total of \$440,000 is required for this work. In addition to the amount of the contract described below, other funds to be allocated include \$28,000 for construction inspection; \$65,000 for submittal review, technical support during construction, responding to requests for information, and preparation of record drawings; \$38,000 for contract administration and project management; and \$32,627 for remaining budget.

**Attachment 1** provides the allocation of the required funds. The total estimated cost to rehabilitate the Diamond Valley Lake wave attenuator, including the amount allocated to date and funds allocated for the work described in this action, is approximately \$615,000. Approximately \$175,000 has been expended on this project to date.

#### ***Award of Construction Contract (Minako America Corp.)***

Specifications No. 1979 for the rehabilitation of Diamond Valley Lake wave attenuator was advertised for bids on July 9, 2020. As shown in **Attachment 2**, two bids were received and opened on September 1, 2020. The low bid from Minako America Corp., in the amount of \$276,373, complies with the requirements of the specifications. The other bid was \$886,624.82, while the engineer's estimate for this project was \$348,000. For this contract, Metropolitan established a Small Business Enterprise participation level of at least 25 percent of the bid amount. Minako America Corp., has committed to meet this level of participation. The sole subcontractor for this contract is Dywidag Systems International USA, Inc.

This action awards a \$276,373 contract to Minako America Corp., for refurbishment of the Diamond Valley Lake wave attenuator.

As described above, Metropolitan staff will perform construction management and inspection. The total cost of construction for this project is \$276,373. For this project, the performance metric goal for inspection is 10.1 percent of the total construction cost. Engineering Services' performance metric target range for inspection of projects with construction less than \$3 million is 12 to 15 percent.

#### **Alternatives Considered**

During the study phase of this project, staff considered replacing the existing Diamond Valley Lake wave attenuator with a new attenuator. However, the process to design and install a new attenuator would take more than two years to complete. Since a functional attenuator is needed for continued recreation, staff recommends refurbishment of the existing attenuator at this time. Subsequent staff efforts will focus on a long-term solution that considers both updated attenuator designs and expansion of the attenuator system to account for possible future marina improvements.

#### **Summary**

This action awards a \$276,373 contract to Minako America Corp., for rehabilitation of the Diamond Valley Lake wave attenuator. See **Attachment 1** for the Allocation of Funds, **Attachment 2** for the Abstract of Bids, and **Attachment 3** or the Location Map.

#### ***Project Milestone***

June 2021– Completion of construction

#### **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

By Minute Item 51963, dated April 13, 2020, the Board appropriated a total of \$500 million for projects identified in the Capital Investment Plan for Fiscal Years 2020/21 and 2021/22.

## California Environmental Quality Act (CEQA)

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### CEQA determination for Option #1:

The proposed action is categorically exempt under the provisions of CEQA and the State CEQA Guidelines. In particular, the proposed action consists of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of existing or former use and no possibility of significantly impacting the physical environment. In addition, the proposed action will not have a significant effect on the environment. Accordingly, the proposed action qualifies as a Class 1 Categorical Exemption (Section 15301 of the State CEQA Guidelines).

### CEQA determination for Option #2:

None required

## Board Options

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### Option #1

Award \$276,373 contract to Minako America Corp., for rehabilitation of the Diamond Valley Lake wave attenuator

**Fiscal Impact:** Expenditure of \$440,000 in capital funds. All costs will be incurred in the current biennium and have been previously authorized.

**Business Analysis:** This project will allow continued recreational use at Diamond Valley Lake.

### Option #2

Do not proceed with project at this time.

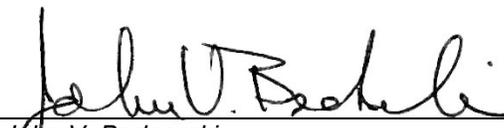
**Fiscal Impact:** None

**Business Analysis:** This option would forgo an opportunity to reduce the risk of wave damage to marina recreation facilities as a result of a deteriorating wave attenuator.

## Staff Recommendation

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Option #1

  
 \_\_\_\_\_ 9/21/2020  
 John V. Bednarski Date  
 Manager/Chief Engineer  
 Engineering Services

  
 \_\_\_\_\_ 9/25/2020  
 Jeffrey Kightlinger Date  
 General Manager

**Attachment 1 – Allocation Funds**

**Attachment 2 – Abstract of Bids**

**Attachment 3 – Location Map**

Ref# es12670000

### Allocation of Funds for the Diamond Valley Lake Wave Attenuator Rehabilitation

	<b>Current Board Action (Oct. 2020)</b>
Labor	
Studies & Investigations	\$ -
Final Design	-
Owner Costs (Program mgmt., envir. monitoring)	38,000
Submittals Review & Record Drwgs.	65,000
Construction Inspection & Support	28,000
Metropolitan Force Construction	-
Materials & Supplies	-
Incidental Expenses	-
Professional/Technical Services	-
Right-of-Way	-
Equipment Use	-
Contracts	-
Minako America Corp.	276,373
Remaining Budget	<u>32,627</u>
<b>Total</b>	<b><u>\$ 440,000</u></b>

The total amount expended to date is approximately \$175,000. The total estimated cost to complete this project, including the amount appropriated to date and funds for the work described in this action, is \$615,000.

**The Metropolitan Water District of Southern California**

**Abstract of Bids Received on September 1, 2020 at 2:00 P.M.**

**Specifications No. 1979  
Diamond Valley Lake Wave Attenuator Rehabilitation**

The project consists of rehabilitation of the floating wave attenuator including removal and replacement of damaged post-tension cables, replacement of damaged concrete, and miscellaneous hardware.

Engineer’s estimate: \$348,000

Bidder and Location	Total	SBE \$	SBE %	Met SBE <sup>1</sup>
Minako America Corp. dba Minco Construction Gardena, CA	\$276,373	\$276,373	100%	Yes
Trinity Construction Blue Jay, CA	\$888,624.82	-	-	-

<sup>1</sup> Small Business Enterprise (SBE) participation level established at 25% for this contract.

# Distribution System

