



- Board of Directors  
*Engineering and Operations Committee*

2/14/2012 Board Meeting

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**7-3**

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**Subject**

Appropriate \$170,000; and authorize preliminary design to rehabilitate Service Connection G-01 (Approp. 15441)

**Description**

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This action authorizes preliminary design to rehabilitate Service Connection Glendale-01 (G-01) on the Santa Monica Feeder. This project will replace a leaking venturi meter and rehabilitate the meter structure.

**Timing and Urgency**

Service Connection G-01 on the Santa Monica Feeder has deteriorated gradually over time, and is in need of rehabilitation. The connection's deteriorating piping, leaking venturi meter, and other aging equipment have reached the end of their service life. Since Metropolitan owns and maintains this portion of the service connection, Metropolitan is responsible for the cost of the planned repairs pursuant to Administrative Code Section 4700. Given the importance of Service Connection G-01 in delivering treated water to the city of Glendale, staff recommends moving forward with preliminary design of the rehabilitation work at this time.

This project has been reviewed with Metropolitan's updated Capital Investment Plan (CIP) prioritization criteria, and is categorized as an Infrastructure Rehabilitation project. This project is budgeted within Metropolitan's CIP for fiscal year 2011/12.

**Background**

The 25-mile-long Santa Monica Feeder was constructed in 1941 as part of Metropolitan's original distribution system. The feeder has various reaches comprised of cast iron, welded steel and reinforced concrete pipe, and has a diameter ranging from 28 to 120 inches. The Santa Monica Feeder delivers treated water from the Eagle Rock Control Facility in the city of Los Angeles to four member agency service connections, before reaching its terminus in the city of Santa Monica.

Service Connection G-01 consists of a 30-inch venturi meter located in a concrete vault structure with removable lid. The facility is owned and maintained by Metropolitan. In 2003, six small leaks were identified on the venturi meter. Since that time, staff has attempted to repair the meter using localized welding and fiberglass wraps with limited success, due to the meter's advanced age and deterioration. The leakage has progressively worsened. Failure of the service connection could negatively impact deliveries to the city of Glendale and potentially damage surrounding properties.

**Service Connection G-01 Rehabilitation – Preliminary Design Phase (\$170,000)**

The planned scope of work includes an assessment of options to rehabilitate the facility. One option will evaluate replacement of the venturi meter in kind, which would require excavation and removal of the north wall of the vault. Another option will consider replacement of the existing vault with a new precast concrete vault and a magnetic flowmeter, which would minimize service disruptions. Due to the vault's location within a public street, traffic control must be addressed and access to the city of Glendale's maintenance and operation building driveway must be maintained. Hazardous material remediation will also need to be addressed.

This action appropriates \$170,000 and authorizes preliminary design phase activities to rehabilitate Service Connection G-01. Planned activities include \$107,500 for site surveys, utility investigations and preliminary design; \$45,000 for preparation of environmental documentation, permitting, and for project management; and \$17,500 in remaining budget. All preliminary design activities will be performed by Metropolitan staff. Staff will return to the Board for authorization of final design in mid-2012.

This project has been evaluated and recommended by Metropolitan's CIP Evaluation Team, and funds have been included in the fiscal year 2011/12 capital budget. See [Attachment 1](#) for the Financial Statement and [Attachment 2](#) for the Location Map.

This project is included within capital Appropriation No. 15441, the Conveyance and Distribution System Rehabilitation Program - Phase 2, which was initiated in fiscal year 2006/07. Appropriation No. 15441 also includes projects such as PCCP repairs of the Calabasas Feeder, Lake Skinner Outlet Conduit, Rialto Pipeline, San Diego Pipeline No. 5, and Sepulveda Feeder. With the current action, the total funding for Appropriation No. 15441 will increase from \$37,079,000 to \$37,249,000.

This project is consistent with Metropolitan's goals for sustainability by enhancing reliability of the existing conveyance and distribution system in order to maintain reliable water deliveries in the future.

### ***Project Milestone***

July 2012 – Completion of preliminary design

### **Policy**

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Metropolitan Water District Administrative Code Section 5108: Appropriations  
Metropolitan Water District Administrative Code Section 4700: General Authorizations

### **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. The proposed action consists of basic data collection and resource evaluation activities, which 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 as a Class 6 Categorical Exemption (Section 15306 of the State CEQA Guidelines).

The CEQA determination is: Determine that pursuant to CEQA, the proposed action qualifies under a Categorical Exemption (Class 6, Section 15306 of the State CEQA Guidelines).

CEQA determination for Option #2:

None required

### **Board Options**

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#### **Option #1**

Adopt the CEQA determination and

- a. Appropriate \$170,000; and
- b. Authorize preliminary design to rehabilitate Service Connection G-01 on the Santa Monica Feeder.

**Fiscal Impact:** \$170,000 in budgeted funds under Approp. 15441

**Business Analysis:** This project will protect Metropolitan's assets, enhance service reliability to a member agency, and reduce the risk of costly emergency repairs.

**Option #2**

Do not authorize preliminary design to rehabilitate Service Connection G-01 at this time.

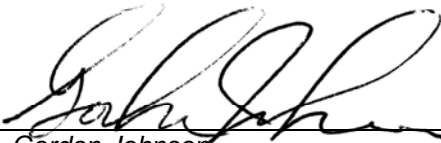
**Fiscal Impact:** None

**Business Analysis:** Under this option, staff will continue to monitor the conditions of Service Connection G-01. This option would forego an opportunity to enhance reliability and extend the connection's service life, and could lead to higher repair costs and unplanned shutdowns.

**Staff Recommendation**

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Option #1

  
\_\_\_\_\_  
Gordon Johnson  
Manager/Chief Engineer,  
Engineering Services

1/23/2012  
Date

  
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Jeffrey Kightlinger  
General Manager

1/30/2012  
Date

[Attachment 1 – Financial Statement](#)

[Attachment 2 – Location Map](#)

Ref# es12615631

## **Financial Statement for Conveyance and Distribution System Rehabilitation Program – Phase II**

A breakdown of Board Action No. 39 for Appropriation No. 15441 to rehabilitate Service Connection G-01<sup>1</sup> is as follows:

	<b>Previous Total Appropriated Amount (Dec. 2011)<sup>2</sup></b>	<b>Current Board Action No. 39 (Feb. 2012)</b>	<b>New Total Appropriated Amount</b>
Labor			
Studies & Investigations	\$ 2,163,500	\$ 107,500	\$ 2,271,000
Final Design	2,741,000	-	2,741,000
Owner Costs (Program mgmt, permitting)	4,263,200	45,000	4,308,200
Submittals Review & Record Drwgs	116,250	-	116,250
Inspection & Support	1,838,550	-	1,838,550
Metropolitan Force Construction	8,177,510	-	8,177,510
Materials and Supplies	1,494,400	-	1,494,400
Incidental Expenses	784,900	-	784,900
Professional/Technical Services	1,660,000	-	1,660,000
Equipment Use	236,200	-	236,200
Contracts	11,212,348	-	11,212,348
Remaining Budget	2,391,142	17,500	2,408,642
<b>Total</b>	<b>\$ 37,079,000</b>	<b>\$ 170,000</b>	<b>\$ 37,249,000</b>

### **Funding Request**

<b>Program Name:</b>	Conveyance and Distribution System Rehabilitation Program – Phase II		
<b>Source of Funds:</b>	Revenue Bonds, Replacement and Refurbishment or General Funds		
<b>Appropriation No.:</b>	15441	<b>Board Action No.:</b>	39
<b>Requested Amount:</b>	\$ 170,000	<b>Capital Program No.:</b>	15441-I
<b>Total Appropriated Amount:</b>	\$ 37,249,000	<b>Capital Program Page No.:</b>	281
<b>Total Program Estimate:</b>	\$ 106,335,000	<b>Program Goal:</b>	I-Infrastructure Reliability

<sup>1</sup>This action is the initial appropriation for the rehabilitation of Service Connection Glendale-01.

<sup>2</sup>This column corrects a numerical error in the previous total appropriated amount from Board Action No. 38.

# Glendale-01 Service Connection

