

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

December 14, 2004 Board Meeting

8-1

Subject

Appropriate \$720,000; and award a \$546,275 construction contract to Best Roofing & Waterproofing, Inc. for the Jensen Basin No. 3 Leak Repair Project (Approp. 15371)

Description

The Joseph Jensen Filtration Plant (Jensen plant) was placed into service in 1972 with an initial capacity of 350 million gallons per day (mgd) and was expanded in 1992 to its current capacity of 750 mgd. The Jensen plant has three treatment modules with four sedimentation basins each. All twelve sedimentation basins are required for reliable operation at 750 mgd. Sedimentation Basin No. 3 was constructed in 1972 as part of Module No. 1 and had been in continuous operation until the late 1990s when it was removed from service due to significant water leakage at the construction and expansion joints. The leaking joints resulted from general deterioration and significant seismic activity at the Jensen plant during the Sylmar (1971) and Northridge (1994) earthquakes. Removing Basin No. 3 from service has reduced the Jensen plant's overall production capacity by 65 mgd. Basin No. 3 must be repaired and returned to service to allow the Jensen plant to operate at the full plant capacity of 750 mgd.

In November 2001, Metropolitan's Board authorized final design of the Jensen plant's Basin No. 3 rehabilitation project. On October 7, 2004, a total of three bids were received and opened under Specifications No. 1502 for Basin No. 3 Leak Repairs. The bid from Best Roofing & Waterproofing, Inc., in the amount of \$546,275, complies with the requirements of the specifications. The engineer's estimate was \$560,000. For this project, Metropolitan requires Small Business Enterprise participation of at least 24 percent of the total construction bid. Best Roofing & Waterproofing, Inc. has committed to meet this requirement.

This action awards a \$546,275 construction contract to Best Roofing & Waterproofing, Inc. to construct the Basin No. 3 Leak Repairs, and authorizes construction inspection and support for this project. Metropolitan staff will perform construction management and inspection. The design consultant for this project, Montgomery Watson Harza Americas, Inc. (MWH), will provide follow-up technical support during construction. MWH will perform this work under an existing professional services agreement. For this project, the anticipated cost of construction inspection is 12 percent of the construction cost. The Engineering Services goal for inspection of projects with construction cost less than \$10 million is 9 to 15 percent.

This project has been evaluated and recommended by Metropolitan's Capital Investment Plan Evaluation Team and funds have been included in the fiscal year 2004/05 capital budget under the Jensen Improvements Program (Approp. 15371).

See [Attachment 1](#) for the Detailed Report, [Attachment 2](#) for the Abstract of Bids, [Attachment 3](#) for the Financial Statement, and [Attachment 4](#) for the Location Map.

Policy

Metropolitan Water District Administrative Code § 5108: Capital Project Appropriation
Metropolitan Water District Administrative Code § 8113: Construction Contract Award

California Environmental Quality Act (CEQA)

CEQA determination for Option #1:

To comply with CEQA and the State CEQA Guidelines, Metropolitan as the Lead Agency processed a Notice of Exemption (NOE) for Modification of Equipment at the Jensen Filtration Plant. The project was found to be exempt under Class 1, Section 15301 of the State CEQA Guidelines on December 5, 2001. Reactivation of the settling basins was identified as a component of the Jensen Improvements Program (Approp. 15371). The current board action authorizes the award of construction for the Basin No. 3 Leak Repairs, and authorizes construction inspection and support for this project. Based on the Board's previous approval of the environmental documentation, the proposed action contained in this board letter fully complies with CEQA and the State CEQA Guidelines. Accordingly, no further environmental documentation is necessary for the Board to act with respect to the proposed action.

The CEQA determination is: Determine that the proposed action has been previously addressed in the 2001 NOE (Class 1, Section 15301 of the State CEQA Guidelines) filed for the Modification of Equipment at the Jensen Filtration Plant, and that no further environmental analysis or documentation is required.

CEQA determination for Option #2:

None required

CEQA determination for Option #3:

None required

Board Options/Fiscal Impacts

Option #1

Adopt the CEQA determination and

- a. Appropriate \$720,000 in budgeted funds; and
- b. Award a construction contract for \$546,275 to Best Roofing & Waterproofing, Inc. to perform leak repairs at Jensen Basin No. 3.

Fiscal Impact: \$720,000 in budgeted funds under Approp. 15371

Option #2

Do not award a contract for the Jensen Basin No. 3 Leak Repairs, and continue to make temporary repairs.

Fiscal Impact: Increased operational costs to dispose of leaking water from Basin No. 3.

Option #3

Do not award a contract for the Jensen Basin No. 3 Leak Repairs, and re-advertise the project in an attempt to receive more favorable bids.

Fiscal Impact: None

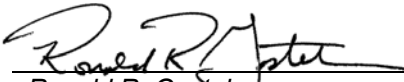
Staff Recommendation

Option #1



Roy L. Wolfe
Manager, Corporate Resources

11/19/2004
Date



Ronald R. Gastelum
Chief Executive Officer

11/19/2004
Date

Attachment 1 – Detailed Report

Attachment 2 – Abstract of Bids

Attachment 3 – Financial Statement

Attachment 4 – Location Map

BLA #2733

Detailed Report

The Joseph Jensen Filtration Plant (Jensen plant) was placed into service in 1972 with an initial capacity of 350 million gallons per day (mgd). The plant was expanded in the early 1990s to its current capacity of 750 mgd. The Jensen plant exclusively treats California State project water supplies and delivers treated water to Metropolitan's Central Pool portion of the distribution system.

The Jensen Improvements Program was established to implement multiple projects necessary to ensure plant reliability and comply with drinking water and environmental regulations.

Jensen Basin No. 3 Leak Repair Project (\$720,000)

Purpose/Background

The Jensen plant has three treatment modules with four sedimentation basins each. Sedimentation Basin No. 3 was constructed in 1972 as part of Module No. 1 and had been in continuous operation until the late 1990s when it was removed from service due to significant water leakage at the construction and expansion joints. The leaking joints resulted from general deterioration and significant seismic activity at the Jensen plant. The leaking water is captured in the underdrain system and discharged to the sanitary sewer, which increases the operating cost of the Jensen plant. All other basins have been inspected and found to be in good condition.

Due to supply limitations on the Colorado River, the Jensen plant is planned to be operated at higher capacities to supply more State project water to Metropolitan's distribution system. Each of the existing twelve basins is required to be in service in order to treat the rated 750 mgd capacity of the Jensen plant. Basin No. 3 must be repaired and returned to service to allow the Jensen plant to operate at full flow capacity.

In November 2001, Metropolitan's Board authorized design of the Jensen Mixing and Settling Basin Reactivation Project. The scope of work included retrofitting existing flocculator drives and repairing leaks in Basin No. 3. This project will allow Basin No. 3 to be returned to service.

Project Description

This project involves removal of existing joint sealing material and installation of a new joint sealing system within the floor and wall joints of Sedimentation Basin No. 3 at the Jensen plant. Approximately 6,000 linear feet of construction and expansion joints will be replaced. The project also includes the repair of miscellaneous cracks in the basin and other appurtenant work.

Bid Results and Business Outreach

As shown in Attachment 2, three bids were received and opened on October 7, 2004, for the Jensen Basin No. 3 Leak Repair project. The low bid was determined to be non-responsive because the contractor did not submit all documentation required by the bid documents. The second low bid from Best Roofing & Waterproofing, Inc., in the amount of \$546,275, complies with the requirements of the specifications. The engineer's estimate was \$560,000. For this project, Metropolitan requires Small Business Enterprise participation of at least 24 percent of the total construction bid. Best Roofing & Waterproofing, Inc. has committed to meet this requirement.

Cost Estimate

Attachment 3 shows the total requested funding of \$720,000 for the construction phase of this project. Metropolitan staff will perform construction management and inspection for this project. The design consultant for this project, Montgomery Watson Harza Americas, Inc. (MWH), will provide follow-up technical support during construction.

Project Milestones

January 2005 – Issue Notice to Proceed

April 2005 – Completion of construction

The Metropolitan Water District of Southern California

Abstract of Bids Received on October 7, 2004 at 2:00 P.M.

Specifications No. 1502

Joseph Jensen Filtration Plant Settling Basin No. 3 Leak Repairs

The project consists of the removal of existing joint sealing material from settling basin floor and walls, preparing the joints, and applying new sealing system to eliminate leakage of stored water. The work also includes repairs of cracks in concrete slabs and other appurtenant work.

Engineer's Estimate: \$560,000

Bidder and Location	Total	SBE \$	SBE %*	Met SBE
Kitson Specialty Contracting, Inc., Santa Fe Springs, CA**	\$302,497	N/A	N/A	N/A
Best Roofing & Waterproofing, Inc., Gardena, CA	\$546,275	\$131,206	24%	Yes
Howard Ridley Co., Inc., Chino, CA	\$745,575	N/A	N/A	N/A

* SBE (Small Business Enterprise) participation set at 24 percent

**Non-responsive bid

N/A – Not Applicable

Financial Statement for Jensen Filtration Plant Improvements Program

A breakdown of Board Action No. 6 for Appropriation No. 15371 for Basin No. 3 Leak Repairs is as follows:

	Previous Total Appropriated Amount (Oct. 2004)	Current Board Action No. 7 (Dec. 2004)	New Total Appropriated Amount
Labor			
Studies and Investigations	\$ 452,000	\$ 0	\$ 452,000
Design and Specifications	933,000	0	933,000
Owner Costs (Program management)	513,000	20,000	533,000
Construction Inspection and Support	793,000	65,000	858,000
Metropolitan Force Construction	922,000	0	922,000
Materials and Supplies	1,550,000	5,000	1,555,000
Incidental Expenses	82,000	5,000	87,000
Professional/Technical Services	550,000	25,000	575,000
Equipment Use	80,000	0	80,000
Contracts	5,848,000	546,275	6,394,275
Remaining Budget	1,569,000	53,725	1,622,725
Total	\$13,292,000	\$720,000	\$14,012,000

Funding Request

Program Name:	Jensen Filtration Plant Improvements Program		
Source of Funds:	Revenue Bonds, Replacement and Refurbishment or General Funds		
Appropriation No.:	15371	Board Action No.:	7
Requested Amount:	\$ 720,000	Capital Program No.:	15371-I
Total Appropriated Amount:	\$ 14,012,000	Capital Program Page No.:	E-41
Total Program Estimate:	\$ 45,770,000	Program Goal:	I – Infrastructure Reliability

