

**WEST BASIN MUNICIPAL WATER DISTRICT
Resources**

FEBRUARY 14 & 15, 2008 – Water

Smith (Chair), Little

FEBRUARY 25, 2008 – Board Meeting

Prepared by: Wyatt Won

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Approved by: Richard Nagel

ACTION CALENDAR

CHEVRON SECOND PASS REVERSE OSMOSIS ELEMENTS

SUMMARY:

West Basin provides double pass reverse osmosis (RO) recycled water to Chevron's high-pressure boilers. Double pass RO water is very high quality, almost distilled, recycled water which is sent through a first pass RO treatment train and then a second pass RO treatment train to remove most of the dissolved minerals. The first pass RO membranes were replaced last fall. The second pass RO membranes (518) are about six and a half years old and are showing signs of deterioration. Although conductivities, a measure of the gross dissolved mineral content of the water, look to be within specification, silica is rising and may soon exceed the water quality specification. Staff and its consultant believe the membranes should be replaced.

Staff has issued a "Request for Bids" (RFB) to West Basin's pre-qualified membrane manufacturers. West Basin requires that a manufacturer pass seven months of qualification testing prior to being allowed to submit a bid. Each of these manufacturers has passed qualification testing at the water recycling facility. West Basin received three bids in response to the RFB. The bids are summarized in the following table.

Firm	Unit Price	Total Price
Saehan	\$340.00	\$176,120.00
Toray	\$361.00	\$186,998.00
Hydranautics	\$448.59	\$232,369.62

Staff recommends that West Basin purchase the Saehan membranes. West Basin has not used Saehan membranes on prior projects. The membranes would be manufactured in Korea and shipped to El Segundo.

FISCAL IMPACTS:

Funds are included in the Facility Replacement Fund.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed by the Water Resources Committee on February 15, 2008 and recommended for approval at the February 25, 2008 Board Meeting.

RECOMMENDED MOTION:

That the Board authorizes the General Manager to enter into an agreement with Saehan to supply 518 reverse osmosis membranes and appurtenant parts and adapters for the second pass treatment in the amount of \$176,120, plus 10% for contingencies, for a total not-to-exceed contract amount of \$193,732.

EXHIBITS:

None.

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