



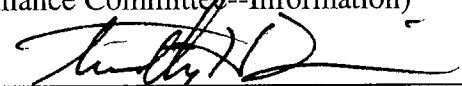
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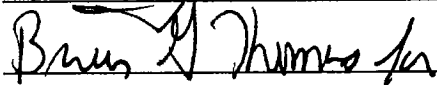
METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

June 27, 1997

To: Board of Directors (Executive Committee--Action)
(Water Planning and Resources Committee--Action)
(Budget and Finance Committee--Information)

From: *for* General Manager





Submitted by: Debra C. Man, Chief
Planning and Resources

Subject: Groundwater Storage Programs with the Calleguas Municipal Water District

RECOMMENDATION

Staff recommends that the Board increase Appropriation No. 15272 by \$2 million for a total of \$8 million pursuant to applicable provisions of the Groundwater Storage Program Agreement between Metropolitan and the Calleguas Municipal Water District.

EXECUTIVE SUMMARY

In June 1995, Metropolitan entered into an agreement (Agreement), authorized by your Board, with the Calleguas Municipal Water District (Calleguas) for a Groundwater Storage Program and System Reliability Development. This Agreement provides for two separate and distinct activities in the North Las Posas Basin (Basin): (1) System Reliability Development, which provides a second point of delivery for treated water to Calleguas, and (2) a Groundwater Storage Program, which provides water for regional benefit. Metropolitan and Calleguas will build and operate a total of 30 Aquifer Storage and Recovery (ASR) wells and appurtenant facilities under the Groundwater Storage Program and Phase I and II of the System Reliability Development activities. The Agreement calls for the development of 10 ASR wells under the Groundwater Storage Program, five ASR wells under Phase I of the System Reliability Development, and 15 wells under Phase II of the System Reliability Development.

At the June 1995 meeting, your Board authorized Appropriation No. 15272 for \$6 million to fund Phase I of the System Reliability Development. As part of Phase I of the Agreement and using funds from Appropriation No. 15272, Calleguas has drilled four ASR wells in the Basin. Calleguas is in the final design stages for a pipeline that will connect the ASR wells with its delivery system and is searching for a well site for the fifth well, which will complete Phase I. Upon completion of Phase I, it is anticipated that staff will return to your Board in the near future to seek funding for the 15 ASR wells of Phase II.

The second part of the Agreement, the Regional Groundwater Storage Program, calls for Metropolitan to set aside monies to be used to construct the 10 ASR wells necessary for the Regional Groundwater Storage Program. The Groundwater Storage Program is a pay-as-you-go program similar to the Semitropic Groundwater Storage Program. Metropolitan deposits \$90 for each acre-foot of water injected in the Basin and \$40 for each acre-foot of water retrieved from the Basin. The water is delivered to the Basin at no cost to Calleguas at the time it is stored. Calleguas will pay Metropolitan's Firm Rate when the water is pumped. When sufficient money has accrued, Metropolitan will disburse money to Calleguas to cover construction costs of the ASR wells and appurtenant facilities related to the Regional Groundwater Storage Program when and as water is stored and extracted pursuant to the agreement. It is recommended that your Board increase Appropriation No. 15272 by \$2.0 million so that this money may be made available for construction of ASR wells for the Groundwater Storage Program. Sufficient funds have been budgeted in this fiscal year's Capital Programs budget to cover this expenditure.

DETAILED REPORT

In June 1995, Metropolitan entered into an agreement (Agreement), authorized by your Board, with the Calleguas Municipal Water District (Calleguas) for a Groundwater Storage Program and System Reliability Development. This Agreement provides for two separate and distinct activities in the North Las Posas Basin (Basin): (1) System Reliability Development, which provides a second point of delivery for treated water to Calleguas, and (2) a Groundwater Storage Program, which provides water for regional benefit. Metropolitan and Calleguas will build and operate a total of 30 Aquifer Storage and Recovery (ASR) wells and appurtenant facilities under the Groundwater Storage Program and Phase I and II of the System Reliability Development activities. The Agreement calls for the development of 10 ASR wells under the Regional Groundwater Storage Program, five ASR wells under Phase I of the System Reliability Development, and 15 wells under Phase II of the System Reliability Development.

At the June 1995 meeting, your Board authorized Appropriation No. 15272 for \$6 million to fund Phase I of the System Reliability Development. As part of Phase I of the Agreement and using funds from Appropriation No. 15272, Calleguas has drilled four ASR wells in the Basin. Calleguas is in the final design stages for a pipeline that will connect the ASR wells with its delivery system and is searching for a well site for the fifth well, which will complete Phase I. Upon completion of testing of the completed Phase I facilities to the satisfaction of both parties, it is anticipated that staff will return to your Board in the near future to seek funding for the 15 ASR wells of Phase II.

The second part of the Agreement, the Groundwater Storage Program, calls for Metropolitan to set aside monies to be used to construct the 10 ASR wells necessary for the Groundwater Storage Program. The Groundwater Storage Program is a pay-as-you-go program similar to the Semitropic Groundwater Storage Program which can commence after completion

of Phase I testing. Metropolitan deposits \$90 for each acre-foot of injected stored in the Basin and \$40 for each acre-foot of water retrieved from the Basin. The water is delivered to the Basin at no cost to Calleguas at the time it is stored. Calleguas will pay Metropolitan's Firm Rate when the water is pumped. When sufficient money has accrued, Metropolitan will disburse money to Calleguas to cover construction costs of the ASR wells and appurtenant facilities.

It is recommended that your Board increase Appropriation No. 15272 by \$2.0 million so that this money may be made available for construction of ASR wells for the Groundwater Storage Program when and as water is stored and extracted pursuant to the agreement. Sufficient funds have been budgeted in this fiscal year's Capital Programs budget to cover this expenditure.

The Integrated Resources Water Plan (IRP) calls for Metropolitan to develop contractual groundwater storage programs, and, where practical and economical, provide multiple water delivery routes to all parts of the service area. Implementing Phase I and Phase II of the System Reliability Development and the Groundwater Storage Program with Calleguas meets these two IRP goals. It will also improve water supply reliability in Metropolitan's entire service area and specifically improve reliability for the West Valley area by providing groundwater storage and a second point of delivery for treated water service for Calleguas. Located along the northwestern boundary of Metropolitan's service area, Calleguas' population of 450,000 people is connected to Metropolitan by a single conduit, the West Valley Feeder No. 2, which passes through areas of recent seismic activity. An outage of this single pipeline would leave Calleguas without a water supply from Metropolitan. The System Reliability Development part of the Agreement provides a second point of delivery of treated water to Calleguas and meets Metropolitan's service reliability objective as stated in the IRP. The Groundwater Storage Program will be an integral part of Metropolitan's IRP goal of 200,000 acre-feet of contractual groundwater storage within Metropolitan's service area. Implementing this program will increase the amount of water imported into Metropolitan's service area and increase the amount of water available for delivery to the region during dry years.

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