

WEST BASIN MUNICIPAL WATER DISTRICT

AUGUST 15, 2005 - Water Resources

Little, Baker

AUGUST 22, 2005 - Board Meeting

Prepared by: Fernando Paludi

Submitted by: Paul E. Shoenberger

Approved by: Richard Nagel

INFORMATION CALENDAR

WATER REPLENISHMENT DISTRICT'S
WEST COAST BASIN OPERATING PLAN

SUMMARY:

During the review of the Water Replenishment District's (WRD) Capital Improvement Program in 2004, it became apparent to WRD that an evaluation of their management objectives for the West Coast Basin would be required prior to finalizing a Capital Improvement Program. After a "Request for Proposals" (RFP) process, WRD sought the consulting services of CH2M HILL to perform a Basin Operation Study. The intent of this study is to formulate alternative operational scenarios for the West Coast Basin and determine how these alternatives may affect the Basin's operations, water producers, and other stakeholders (i.e. West Basin and oil refineries).

Prior to developing the operational scenarios, CH2M HILL and WRD staff began a series of interviews and data collection from all the major stakeholders within West Basin, including the District, to receive feedback on how best to operate the Basin.

From the information received, CH2M HILL developed a preliminary list of operational scenarios for WRD staff to evaluate, from which WRD has presented these results to the WRD Technical Advisory Committee (TAC) for comment. The WRD TAC serves as the public venue for input and review. Although West Basin is not a member of the TAC, staff has attended the meetings and has fully participated in these discussions and offered multiple comments and suggestions on each of the scenarios presented.

At the last TAC meeting held on July 27, CH2M HILL and WRD presented a description of each scenario developed from the preliminary list. After a thorough discussion of the various scenarios, it was the consensus of the TAC that additional modeling be performed on at least six scenarios. The additional modeling would provide a more refined understanding of the operations of each scenario proposed, such as the estimated amount of Barrier reduction, the impact of seawater intrusion, the additional imported water needed, etc. Below is a brief description of each of the six scenarios:

- **Alternative 1A**
 - Reduce Barrier Injection and Conduct In-Lieu Recharge with existing infrastructure.
- **Alternative 1B**
 - Reduce Barrier Injection and Conduct In-Lieu Recharge with existing and new infrastructure.
- **Alternative 2A**
 - Evaluate In-Lieu/ASR Operations using existing infrastructure.

- **Alternative 2B**
 - Evaluate In-Lieu/ASR Operations using existing and new infrastructure.
- **Alternative 2D**
 - Evaluate In-Lieu/ASR Operations with the Oil Refineries using existing and new infrastructure.
- **Alternative 4**
 - Evaluate the construction of extraction wells and a desalter at the southern end of the West Coast Basin Barrier.

Once the modeling is completed and reviewed, the TAC will select scenarios to move to the next stage. The next stage will then evaluate the institutional, economical, or water distribution issues or constraints within each scenario. CH2M HILL plans to have the modeling completed and present the results at the next TAC meeting in August.

FISCAL IMPACTS:

Not yet determined

ENVIRONMENTAL COMPLIANCE:

None.

COMMITTEE STATUS:

This item was reviewed by the Water Resource Committee on August 15, 2005 and was agendaized to the August 22, 2005 Board meeting as information for discussion.

RECOMMENDED MOTION:

This item is for information only.

LIST OF EXHIBITS:

None.