

**REGULAR MEETING OF THE WATER RESOURCES COMMITTEE
OF THE BOARD OF DIRECTORS
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA
12621 E.166th Street (Corner, Bloomfield & 166th), Cerritos, California**

8:30 A.M., TUESDAY, JULY 6, 2004

AGENDA

EACH ITEM ON THE AGENDA, NO MATTER HOW DESCRIBED, SHALL BE DEEMED TO INCLUDE ANY APPROPRIATE MOTION, WHETHER TO ADOPT A MINUTE MOTION, RESOLUTION, PAYMENT OF ANY BILL, APPROVAL OF ANY MATTER OR ACTION, OR ANY OTHER ACTION. ITEMS LISTED AS "FOR INFORMATION" MAY ALSO BE THE SUBJECT OF AN "ACTION" TAKEN BY THE BOARD OR A COMMITTEE AT THE SAME MEETING.

- I. DETERMINATION OF A QUORUM**
- II. PUBLIC COMMENT**
- III. MINUTES OF THE REGULAR MEETING OF MAY 11, 2004**
Staff Recommendation: That the Committee approve the minutes as submitted.
- IV. PRESENTATION BY THE SOUTHERN CALIFORNIA GAS COMPANY**
Staff Recommendation: For information.
- V. IN-LIEU PROGRAM**
Staff Recommendation:
 - A. That the Committee direct staff to develop In-Lieu agreements with Long Beach at the In-Lieu payment rates specified.
 - B. That the Committee direct staff to develop In-Lieu agreements with Los Angeles at the In-Lieu payment rates specified.
- VI. GROUNDWATER BASIN UPDATE**
Staff Recommendation: For information.
- VII. LEO J. VANDER LANS WATER TREATMENT FACILITY PROJECT UPDATE**
Staff Recommendation: For information.
- VIII. ADJOURNMENT**

Posted by Abigail C. Andom, Deputy Secretary, June 29, 2004.

**MINUTES OF MAY 11, 2004
REGULAR MEETING OF THE WATER RESOURCES COMMITTEE
OF THE BOARD OF DIRECTORS
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA**

A regular meeting of the Water Resources Committee of the Board of Directors of the Water Replenishment District of Southern California was held on May 11, 2004 at 8:34 a.m., at the District Office, 12621 E. 166th Street, Cerritos, California. Chairperson Albert Robles called the meeting to order and presided thereover. Deputy Secretary Abigail C. Andom recorded the minutes.

I. DETERMINATION OF A QUORUM

Attendees at the meeting were as follows:

Committee:	Directors Albert Robles and Robert W. Goldsworthy
Staff:	Robb Whitaker, Mario Garcia, Ted Johnson, Jason Weeks, Charlene King
Guest:	Fernando Paludi Harvey De la Torre of Central and West Basin Municipal Water Districts, Diem Vuong of Long Beach Water Department and Amy Rego of Metropolitan Water District

II. PUBLIC COMMENT

None.

III. MINUTES OF THE REGULAR MEETING OF APRIL 12, 2004

The minutes were approved as submitted.

IV. COOPERATIVE EFFORT WITH LOS ANGELES COUNTY DEPT. OF PUBLIC WORKS FOR GROUNDWATER MODELING OF ALAMITOS BARRIER FOR RECYCLED WATER PERMIT COMPLIANCE

Chief Hydrogeologist Ted Johnson stated that one of the permit requirements to operate the Leo J. Vander Lans Water Treatment Facility will be to track the movement of the recycled water through the aquifer systems and predict how long it will take to reach nearby drinking water wells, to determine the mass-balance of the recycled water in each aquifer, and to calculate the percent recycled water being pumped from the wells to ensure that it does not exceed permit limits. Mr. Johnson explained that this work can best be accomplished using a detailed groundwater fate and transport model of the barrier system. Although development of a detailed barrier model is normally an expensive and time-consuming effort, the District can get a head start and reduce the costs and time by utilizing the Los Angeles County Department of Public Work's (DPW) existing model of the Alamitos barrier. This model was developed over the past two years to improve barrier operations. Mr. Johnson explained that with some updates and modifications to the

existing model, it can be used for recycled water tracking to meet the District's permit requirement needs.

The estimated cost for this work is \$102,500, with WRD contributing \$62,500 and the DPW contributing \$40,000.

The Committee recommended that the Board to enter into an Agreement with the Los Angeles County Department of Public Works for groundwater modeling and recycled water tracking at the Alamitos Barrier.

V. RFP FOR THE EVALUATION OF OPERATING OBJECTIVES FOR THE WEST COAST BASIN

Assistant General Manager/Chief Engineer Mario Garcia stated that staff had drafted a request for proposal (RFP) for the operational objectives of West Coast Basin in order to find a more economical way of managing the basin.

Director Goldsworthy commented that he would like the RFP to be more comprehensive and address issues that are of concern to the District.

Mr. Fernando Paludi, West Basin Municipal Water District (WBMWD), stated that they would like this effort to be more collaborative involving WBMWD and the County of Los Angeles. Mr. Paludi explained that at the last WRD Technical Advisory Committee (TAC), some of the TAC members had wanted to hasten the process and have WBMWD excluded from the discussions. He stated that they would recommend that a steering committee be established with all the players involved and that the time frame be extended.

Mr. Diem Vuong, Long Beach Water Department, stated that the TAC would like to move forward in selecting a consultant for the project. Mr. Vuong stated that the consultant will coordinate with all the parties involved and will instruct them on how to proceed. He stated that he envisions this project to be a comprehensive overall plan, somewhere in the range of a \$500,000 study.

Director Robles stated that he concurs with Mr. Vuong and would like to see this plan as comprehensive as possible. He stated that he would like the consultant to provide guidance on the operations of the basin and would like to have participation from all the proper parties involved. Director Robles asked if WBMWD would consider sharing the financial cost of the project.

The Committee recommended that this item be reviewed at the next meeting.

VI. IN-LIEU PROGRAM

Director Robles stated that he would like to postpone re-instituting the In-Lieu program until the impacts of the suspension has been determined.

Assistant General Manager/Chief Engineer Mario Garcia stated that he sees the general benefits of the In-Lieu program and recognizes the fact that the impacts may not be quantified for another 2-3 years. He recommended re-instituting the program at a much lower level.

Mr. Diem Vuong, Long Beach Water Department, stated that there is a regional benefit and that they will consider participating even with zero incentive.

Discussion followed. Director Goldsworthy recommended doing the Program on a case-by-case basis. Director Robles stated that he would like to see the results of the West Basin operational plan first in order to get the full benefit of the study.

Ms. Amy Rego, Metropolitan Water District (MWD), stated that MWD is interested in knowing whether or not the Program will be re-instituted as soon as possible because it uses in-lieu estimates for operational planning purposes.

VII. GROUNDWATER BASIN UPDATE

Chief Hydrogeologist Ted Johnson provided an update on the groundwater conditions in the basins for the month of March of water year 2003-2004. Some highlights included: Precipitation (Los Angeles Civic Center Station): 9.21 inches (27% below average); Pumping: Central Basin - 87,923 af (10% higher than last year) and West Coast Basin - 22,910 af (6% lower than last year); Water levels at the Montebello Forebay Key Well 1601T: Elevation = 105.1 ft mean sea level (13.1 ft lower than last year and 22 ft below the upper water level goal); Spreading grounds: imported water -12,000 af (estimated out of current order for 27,600 af) and recycled water - 26,000 af (estimated. Permit will allow up to 45,000 af this year); and Barrier wells: imported - 11,058 af (9,800 af last year) and recycled -1,792 af (3,583 af last year) WCBBP only.

VIII. LEO J. VANDER LANS WATER TREATMENT FACILITY PROJECT UPDATE

Assistant Engineer Charlene King stated that staff has been working with PK Contractors and its subcontractors to attend to certain control and operational problems for the Leo J. Vander Lans Water Treatment Facility to operate as smoothly. Ms. King explained that most recently the electric actuator of an RO flush valve was replaced, the MF control system was adjusted to reduce the volume of wash water returned to the waste stream, and a leak that developed along an irrigation line was repaired. She also noted that currently two of the 108 RO pressure vessels are

experiencing high permeate conductivity and staff is performing diagnosis to identify the causes.

IX. ADJOURNMENT

With no further business for the Committee, the meeting was adjourned at 10:20 a.m.

Chairperson

ATTEST:

Director



MEMORANDUM

ITEM NO. IV

Prepared by: Paul Fu

Reviewed by: Mario Garcia

DATE: JULY 6, 2004

TO: WATER RESOURCES COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

SUBJECT: PRESENTATION BY THE SOUTHERN CALIFORNIA GAS COMPANY

SUMMARY

The Southern California Gas Company has offered a presentation on "Gas vs. Electric" to the WRD's Water Resources Committee. Mr. Ranjiv Goonetilleke of the Gas Company will present the reliability, flexibility, and savings of natural gas for municipal water pumping. He will assess the feasibility, on a preliminary basis, of using natural gas at WRD's Goldsworthy Desalter and Vander Lans Water Treatment Facility.

FISCAL IMPACT

None.

STAFF RECOMMENDATION

For information.



MEMORANDUM

ITEM NO. V

Prepared by: Jason Weeks

Reviewed by: Mario Garcia

DATE: JULY 6, 2004

TO: WATER RESOURCES COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

SUBJECT: IN-LIEU PROGRAM

SUMMARY

District Staff has been evaluating the potential of re-implementing the In-Lieu Program in FY04/05. This item was discussed at the May meeting of the Water Resources Committee, at which time the Committee determined that participation in the program should be evaluated on a case by case basis. District staff will present the Committee with a summary of those parties that have expressed interest in participating in the In-Lieu Program in FY04/05.

OVERVIEW OF IN-LIEU PROGRAM

The purpose of WRD's In-Lieu program is to provide an alternative source of replenishment water to those areas of the Central and West Coast basins that are difficult or relatively expensive to replenish. The District's In-Lieu program provides incentive payments to participating agencies in exchange for their retirement of water rights for the current year. The In-Lieu payment is intended to make up the cost difference between the retired groundwater right and the seasonally discounted imported water available from MWD.

Based on the District's FY04/05 replenishment assessment of \$128 per acre-foot and an assumed energy cost to extract groundwater of \$65 per acre-foot, the cost of groundwater to a water rights holder is assumed to be \$193 per acre-foot.

The assumed cost of seasonally available imported water is based on the MWD commodity rate plus any additional surcharges levied by a MWD member agency. For those participating agencies that are also MWD member agencies, the cost of the seasonally available water is \$300 per acre-foot for July-December 2004 and \$325 per acre foot for January-June 2005. For those participating agencies that purchase imported water through WBMWD, the cost of the seasonally available water is \$331 per acre-foot for July-December 2004 and \$356 per acre-foot for January-June 2005.

The table below summarizes the costs for seasonally available water from MWD and the proposed WRD In-Lieu payments for FY04/05.

Treated Replenishment Water Rate (Long-Term Seasonal Storage)						
	Tier A			Tier B		
	MWD Member Agency			WBMWD Member Agency		
	2004	2005		2004	2005	
	July-December	January-June		July-December	January-June	
MWD Commodity Rate	\$ 300	\$ 325		\$ 300	\$ 325	
Surcharge	\$ -	\$ -		\$ 31	\$ 31	
Total (\$/AF)	\$ 300	\$ 325		\$ 331	\$ 356	

In-Lieu Calculations						
WRD In-Lieu Payment Summary						
Cost Diff between LT Seasonal Storage and GW	\$ 107	\$ 132		\$ 138	\$ 163	
In-Lieu Incentive Payment	\$ -	\$ -		\$ -	\$ -	
WRD In-Lieu Payment (\$/AF)	\$ 107	\$ 132		\$ 138	\$ 163	

The District's draft FY04/05 budget contains an estimated In-Lieu Program of 10,303 acre-feet, with 6,000 acre-feet allotted for the lower Central Basin and 4,303 acre-feet allotted for the West Coast Basin. To date the following parties have expressed interest in participating in the FY04/05 In-Lieu Program:

- Long Beach (lower Central Basin) 6,000 acre-feet
- Los Angeles(West Coast Basin) 1,503 acre-feet

The remaining 2,800 acre-feet is available to other West Coast Basin pumpers. Staff will provide the committee with an update on the level of interest in the In-Lieu program.

FISCAL IMPACT

None at this time.

STAFF RECOMMENDATION

- A. That the Committee direct staff to develop In-Lieu agreements with Long Beach at the In-Lieu payment rates specified.
- B. That the Committee direct staff to develop In-Lieu agreements with Los Angeles at the In-Lieu payment rates specified.



MEMORANDUM

ITEM NO. VI

Prepared by: Nancy Matsumoto

Reviewed by: Ted Johnson

DATE: JULY 6, 2004

TO: WATER RESOURCES COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

SUBJECT: GROUNDWATER BASIN UPDATE

SUMMARY

Staff will present the committee with a monthly update on the groundwater conditions in the basins, including precipitation, water levels, pumping, replenishment, seawater barrier wells, and any other matters affecting the water resources of the basins. The following presents some highlights through May of Water Year 2003-2004:

Precipitation (Los Angeles Civic Center Station):

- 12.58 inches (90% of average)

Pumping:

- Central Basin - 120,391 af (6% higher than last year)
- West Coast Basin - 30,932 af (7% lower than last year)

Water Levels

- Montebello Forebay Key Well 1601T: Elevation = 94.9 ft mean sea level (19.3 ft lower than last year and ~31 ft below the upper water level goal).

Spreading Grounds:

- Imported Water - 18,000 af (estimated out of current order for 27,600 af)
- Recycled Water - 32,000 af (estimated. Permit will allow up to 45,000 af this year)

Barrier Wells:

- Imported - 14,116 af (9,800 af last year)
- Recycled - 2,095 af (3,583 af last year) WCBBP only.

FISCAL IMPACT

For information.

STAFF RECOMMENDATION

For information.



MEMORANDUM

ITEM NO. VII

Prepared by: Charlene King

Reviewed by: Mario Garcia

DATE: JULY 6, 2004

TO: WATER RESOURCES COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

SUBJECT: LEO J. VANDER LANS WATER TREATMENT FACILITY PROJECT UPDATE

SUMMARY

The contract to construct the Leo J. Vander Lans Water Treatment Facility, formerly known as the Alamitos Barrier Advanced Water Treatment Facility, was awarded to PK Contractors. Although all major components of the facility have been constructed and/or installed, minor work continues to address operational fixes during the start-up phase. As staff runs the plant on a periodic basis, certain control or operational problems are discovered. Staff is working with PK Contractors and its subcontractors to attend to these concerns in an expeditious manner so the plant can operate as smoothly as possible once the operating permit from Regional Board is issued.

The Los Angeles County Department of Public Works has requested WRD to measure modified fouling index (MFI) of the product water from the Vander Lans Facility to ensure that the water is low in particulate concentration and acceptable for injection to the barrier wells. Staff is purchasing equipment necessary for the MFI measurement and will conduct a series of measurement to establish a baseline MFI data.

Staff met with the State Department of Health Services (DHS) to review the draft Findings of Fact and Conditions for the use of recycled water. They intend to send their recommendation of approval of the project with these conditions to the Regional Water Quality Control Board by the end of June 2004. A key issue that was resolved was an understanding to utilize natural intrinsic water quality differences between the projected blend of recycled water and imported water and the current imported water as a means of tracking the movement of recycled water. After 6 months, if these differences are not apparent, then the District would be required to utilize artificial tracers.

FISCAL IMPACT

None

STAFF RECOMMENDATION

For information.