

**SPECIAL JOINT MEETING OF THE BOARD OF DIRECTORS  
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA  
AND WEST BASIN MUNICIPAL WATER DISTRICT  
4040 PARAMOUNT BOULEVARD, LAKEWOOD, CALIFORNIA 90712**

**11:00 A.M., FRIDAY, APRIL 17, 2009**

**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" or "For Discussion" may also be the subject of an "action" taken by the Board or a Committee at the same meeting.

- 1. DETERMINATION OF A QUORUM/PLEDGE OF ALLEGIANCE**
- 2. PUBLIC COMMENT/PRESENTATIONS**
- 3. WEST COAST BASIN BARRIER RECYCLED WATER AGREEMENT**
- 4. MEMORANDUM OF UNDERSTANDING – GROUNDWATER STUDY**
- 5. WATER SUPPLY ALLOCATION**
- 6. WEST COAST BASIN OPTIMIZATION PLAN – ORAL REPORT**
- 7. WEST BASIN WATER RELIABILITY 2020 PROGRAM-ORAL REPORT**
- 8. WATER REPLENISHMENT DISTRICT WATER INDEPENDENCE NOW (WIN) PROGRAM – ORAL**
- 9. LEGISLATIVE UPDATE – ORAL**
- 10. HEAL THE BAY ANNUAL DINNER SPONSORSHIP – ORAL REPORT'**
- 11. SMART LANDSCAPE EXPO, MAY 2, 2009 – ORAL REPORT**
- 12. ADJOURNMENT**

Agenda posted by Abigail C. Andom, Deputy Secretary, April 16, 2009.

In compliance with the Americans with Disabilities Act (ADA), if special assistance is needed to participate in the Board meeting, please contact Deputy Secretary Abigail Andom at (562) 921-5521 for assistance to enable the District to make reasonable accommodations.

All public records relating to an agenda item on this agenda are available for public inspection at the time the record is distributed to all, or a majority of all, members of the Board. Such records shall be available at the District office located at 4040 Paramount Boulevard, Lakewood, California 90712.

Agendas and minutes are available at the District's website, [www.wrd.org](http://www.wrd.org).



## MEMORANDUM

ITEM NO. 3

*Prepared by:* Bob Siemak

*Reviewed by:* Robb Whitaker

*Approved by:* Robb Whitaker

**DATE:** APRIL 17, 2009

**TO:** JOINT WRD/WBMWD BOARD OF DIRECTORS

**FROM:** ROBB WHITAKER, GENERAL MANAGER

**SUBJECT:** WEST COAST BASIN BARRIER RECYCLED WATER AGREEMENT

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### SUMMARY

Groundwater provides 40% of the overall water supply during normal years for the Los Angeles Coastal Basins, which includes over 4 million residents in 43 cities. Because groundwater extractions exceed natural replenishment, the basins require artificial replenishment. WRD manages these basins, including replenishment in the Montebello Forebay and protection from seawater intrusion at the West Coast, Dominguez Gap and Alamitos Gap Barriers. WRD uses various sources of water for artificial replenishment including stormwater; treated wastewater, a locally available supply; and expensive imported water from the environmentally sensitive Sacramento and Colorado Rivers. Seawater intrusion barriers are supplied with imported and reclaimed water.

WRD has identified a series of projects and programs which is called "Water Independence Now" (WIN) that will allow south Los Angeles County to be independent of imported water for groundwater replenishment. One of the projects in WIN is to convert from the current 75%/25% reclaimed water/imported water supply to 100% reclaimed water for the West Coast Barrier.

For the West Coast Barrier, WRD currently purchase barrier water from WBMWD. Currently, twenty-five percent of the water purchased to meet the barrier demand is MWD Tier 1 imported water and 75% is advanced treated reclaimed water. WRD, as part of WIN, desires to replace the imported water with reclaimed water. WBMWD and WRD have an existing water purchase agreement for up to 12,500 acre feet per year (AFY) of advanced treated reclaimed water, or approximately 75% of the barrier demand. WRD and WBMWD have met on several occasions to modify the agreement to purchase an additional 4,500 AFY of reclaimed water for the barrier which will satisfy 100% of the barrier demand. WBMWD has received all regulatory approvals from the RQWCB and DPH for use of 100% reclaimed water at the barrier.

WRD and WBMWD have finalized negotiations of an amendment to the existing water purchase agreement that would allow 100% use of reclaimed water for the barrier. By way of summary, the draft amendment provides for the purchase of up to 17,000 AFY of reclaimed water for barrier injection with separate pricing structures for the existing supply (12,500 AFY)

and the new supply (4,500 AFY) that will result from the Phase V Expansion of the Edward C. Little Water Reclamation Facility. The key terms of the draft amendment are as follows:

- The existing pricing of the current barrier supply will be per the existing agreement with a \$20/AF increase for each of the next two years, with the first adjustment in July 2009. These adjustments satisfy the five year review, due in 2011, of the rate as established in the existing agreement.
- Once the expansion is complete, WRD will purchase the first 4,500 AFY at a rate based on actual cost to produce water that shall not exceed 95% of the WBMWD Tier 1 rate and the rest of the barrier water (up to an additional 12,500 AFY) at the rate contained in the existing agreement ( including the two \$20/af adjustments).

### **FISCAL IMPACT**

In the short term, rate for the current recycled water will increase by approximately \$40 for FY 2009-10. In the long term, the fiscal impact of the new water purchase agreement is designed to be RA neutral.

### **AD HOC WRD/WBMWD COMMITTEE RECOMMENDATION**

Approval of the Draft Amendment No. 1 to the 2003 Agreement For Supply Of Recycled Water, subject to approval of form by District Counsel.



AGENDA NO. 3

**WEST BASIN MUNICIPAL WATER DISTRICT**  
17140 S. Avalon Blvd., Suite 210  
Carson, CA 90746

**APRIL 17, 2009 – Joint West Basin/WRD  
Board Meeting**

Prepared by: Joe Walters

Submitted by: Paul Shoenberger

Approved by: Rich Nagel

## ACTION CALENDAR

### WEST COAST BASIN BARRIER RECYCLED WATER AGREEMENT

#### SUMMARY:

West Basin Municipal Water District (West Basin) has provided high-quality recycled water to supplement injection of imported water in the West Coast Barrier (Barrier) since the beginning of West Basin's recycled water program. The Water Replenishment District (WRD), as the managing agency for the Barrier and the groundwater basin, has steadily increased the ratio of recycled water as recycled water has been established as a safe and effective use of local resources and more cost-effective than importing potable water.

Now, West Basin and WRD wish to expand the use of recycled water at the Barrier to the next level, 100% recycled water. West Basin and WRD have performed a study on the infrastructure required to achieve this goal and determined cost estimates for construction and operation of the expanded facilities. The amendment was developed based on direction from the ad hoc committees from both agencies' to expand the existing agreement and includes the following points:

- An increase of recycled water used for Barrier injection is consistent with the goals set forth in WRD's Water Independence Now (WIN) program and West Basin's Water Reliability 2020 goal to provide a local source of reliable water,
- West Basin will design, finance and construct the facilities to meet the expected demand for 100% recycled water to the Barrier (up to 17,000 acre-feet),
- This amendment extends Agreement W1339 between WRD and West Basin for an additional twenty-five years,
- West Basin will own, operate and maintain the facilities to produce and distribute recycled water to the Barrier,
- Two rates will be used for the 17,000 acre-feet per year (AFY) of recycled water provided for Barrier injection water; the first rate is for the first 4,500 AFY, and a second separate rate is for the next 12,500 AFY,
- The rate for the first 4,500 AFY will be established by the West Basin Board of Directors and based on the historical costs to produce the water and adjusted for the anticipated changes in the quantity or unit price of those items, plus annualized capital costs to construct the infrastructure, and repair and replacement costs for the facilities, limited to not more than 95% of the West Basin Tier 1 rate for imported water for that period,

- The rate for the first 4,500 AFY can be reviewed for possible adjustment at the end of one (1) year and the ten (10) year anniversary of the commencement of delivery of recycled water from the Water Recycling Facility Phase V Expansion by mutual agreement of West Basin and WRD,
- The rate for the next 12,500 AFY is set forth in the original agreement (W1339) with the addition of two \$20/AF increases on July 1 of two consecutive years beginning July 2009,
- The opportunities for adjustment to the rate formula of the 12,500 AFY remain in tact with the exception of the five year review (2011), which has been replaced by the two \$20/AF increases by mutual agreement of West Basin and WRD.

STRATEGIC BUSINESS PLAN IMPLEMENTATION:

Goal 1, Reliability - Maintain a level of local water reliability that supports the regional economy, our community and customer agency needs.

COMMITMENT STATEMENT:

Water Reliability: West Basin is committed to innovative planning and investments to provide water supply reliability and drought protection.

FISCAL IMPACTS:

Funds for this project will be included in the Fiscal Year 2009-10 Capital Budget.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was not reviewed by a Committee.

RECOMMENDED MOTION:

That the Board authorizes the General Manager to execute an amendment to agreement W1339 with WRD to supply up to 17,000 acre-feet of recycled water for injection in the West Coast Barrier for an additional 25 years.

LIST OF EXHIBITS:

None.



## MEMORANDUM

### ITEM NO. 4

<i>Prepared by:</i>	Phuong Ly
<i>Reviewed by:</i>	Ted Johnson
<i>Approved by:</i>	Robb Whitaker

**DATE:** APRIL 17, 2009

**TO:** JOINT WRD/WBMWD BOARD OF DIRECTORS

**FROM:** ROBB WHITAKER, GENERAL MANAGER

**SUBJECT:** MEMORANDUM OF UNDERSTANDING – GROUNDWATER STUDY

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### SUMMARY

On the south side of the Palos Verdes (PV) Peninsula, a landslide above Abalone Cove is currently being mitigated by dewatering facilities that extract groundwater from the slide area and discharge the water into the ocean. A preliminary review of information suggests that the volume of water extracted is an average of 150,000 gallons per day. The presumed sources of the groundwater include natural percolation, irrigation, and septic system leaching. In addition, it has been reported that some natural surface streamflow may exist in the vicinity of the landslide area.

On the north side of the PV Peninsula (in the Malaga Cove Plaza area), there is an existing sub-drain system installed to lower groundwater levels at a shopping center and surrounding residential neighborhood. According to information verbally conveyed to West Basin Municipal Water District (WBMWD) from the City of Palos Verdes Estates, approximately 650,000 gallons per day is collected by the sub-drain system and discharged along Malaga Canyon to the ocean. WBMWD has indicated that the Palos Verdes Golf Course, which is located in close proximity to Malaga Cove Plaza, has installed the necessary infrastructure to use non-potable water for irrigation purposes.

WRD and WBMWD would like to retain a consulting firm to assess the feasibility of diverting the drainage from both areas of the PV Peninsula and piping it to nearby park sites, golf courses, etc., for irrigation purposes.

### **Benefits to District:**

- Beneficial reuse of groundwater instead of wasting it to the ocean.
- Offsets need for a similar amount of imported water, thus saving that valuable resource for other users.
- Promotes environmental stewardship.

### **Scope of Required Services:**

- Perform a visit to the Abalone Cove and Malaga Plaza dewatering sites to review existing infrastructure and sites for possible reuse.
- Compile and review available water quality, pumping, and flow data as well as information on well location, pumping capacity, and other existing infrastructure.

- Identify potential fatal flaws that prevent further project research. If no fatal flaws are identified, develop a project concept to deliver some or all of the extracted groundwater to beneficial irrigation uses. The project concept will include a general description of facilities including conveyance, treatment, monitoring as well as an estimate of facility capital and operations and maintenance (O&M) costs.
- Prepare a single technical memorandum summarizing the findings, two proposed project concepts (one for Abalone Cove, the other for Malaga Plaza), and the estimated total and unit cost of water delivered associated with the projects (possibly also presented as a range of cost). The project concepts will be presented via a marked up aerial image with features identified.

**Procurement Procedures:**

A Request for Proposal (RFP) was jointly prepared by both agencies and sent on January 26, 2009 to 10 pre-qualified consulting firms specializing in engineering/design projects. Of these 10 consulting firms, three firms responded with proposals on February 13, 2009 (see data table below).

WRD and WBMWD reviewed each of the proposals and met on February 24, 2009 to discuss our evaluations. Evaluations of each of the firms were based on four criteria, including Project Approach and Scope of Work, Estimated Cost, Project Team, and Relevant Experience / References. A weighting of 25% was given to each of the criteria. This is a Professional Services agreement and therefore, award can go to the most qualified firm. The final rankings are shown below.

Overall Ranking	Firm	Proposal Amount
1	RMC Water and Environment	\$19,811
2	Psomas	\$32,110
3	URS Corporation	\$34,720

Based on the indicated ranking, WRD and WBMWD is recommending award of the contract to RMC Water and Environment. This firm demonstrated the greatest project understanding and experience and their proposal was judged to provide the best value for this project. The project is expected to be completed within 2 months of award of contract.

**Memorandum of Understanding (MOU) between WRD and WBMWD:**

An MOU was prepared by WRD and comments from WBMWD, District Counsel, and the Water Resources Committee have been incorporated. WBMWD shall reimburse WRD for one-half of the costs for the consultant to conduct the study.

**FISCAL IMPACT**

Total cost of the project is approximately \$20,000, with a \$3,000 contingency added bringing the total amount to \$23,000. WRD's portion of this study will be funded from the water resources planning budget for Fiscal Year 2008-09.

**WATER RESOURCES COMMITTEE RECOMMENDATION**

- 1) Award of contract to RMC Water and Environment, subject to approval of form by District Counsel, for the Palos Verdes Dewatering and Groundwater Reuse Study, for an amount not to exceed \$23,000, and
- 2) Enter into a Memorandum of Understanding (MOU) with West Basin Municipal Water District (WBMWD) to share equally in the costs of the Palos Verdes Dewatering and Groundwater Reuse Study.



WEST BASIN MUNICIPAL WATER DISTRICT  
17140 S. Avalon Blvd., Suite 210  
Carson, CA 90746

AGENDA NO. 4

APRIL 16, 2009 – Water Resources  
Little (Chair), Gray  
APRIL 17, 2009 – Joint West Basin/WRD  
Board Meeting  
Prepared by: Fernando Paludi  
Submitted by: Paul Shoenberger  
Approved by: Rich Nagel

## ACTION CALENDAR

### JOINT FUNDING AGREEMENT WITH WATER REPLENISHMENT DISTRICT FOR PALOS VERDES PENINSULA LANDSLIDE ABATEMENT DEWATERING AND GROUNDWATER DRAINAGE BENEFICIAL RE-USE STUDY

#### SUMMARY:

In December 2008, staff provided information to the Board regarding two areas of the Palos Verdes Peninsula near Abalone Cove and Malaga Cove Plaza where significant volumes of water beneath the surface and above the bedrock are actively dewatered and/or collected, and discharged to the ocean. Also in late 2008, the Water Replenishment District (WRD) Board authorized their staff to study the feasibility of non-potable beneficial reuse for these two water sources, and further directed staff to request West Basin Municipal Water District's (West Basin) participation in the study.

West Basin has an interest in enhancing water reliability on the Peninsula where cost-effective. In the case of the Malaga Cove Plaza, the City of Palos Verdes Estates has also separately approached West Basin regarding the subsurface flows. They have an interest in both preventing future water damage to Plaza businesses that has occurred in the past, and providing a non-potable source of water for the dual-plumbed Palos Verdes Golf Course.

The scope of the study is limited to first identifying any fatal flaws to proceeding with project research, and if none are identified, developing a project concept for collecting, treating and delivering each water source to local irrigation customers such as golf courses. Each project concept will include facilities required and associated capital and operations & maintenance costs. Should either of these project concepts be deemed worth pursuing, more formal design consulting services will be required, as well as additional funding, through future Board action.

WRD staff has proceeded with procuring consulting services to perform the re-use study. West Basin staff has participated in reviewing the study scope and evaluating consultant proposals, and will also be involved in reviewing consultant deliverables. The study is scheduled to be completed by the end of May 2009.

WRD has drafted an inter-agency agreement, included as Exhibit A, to memorialize the joint funding arrangement and shared responsibilities of each agency. The agreement establishes each agency's contribution as \$11,500, or one-half the total fee of \$23,000, and joint ownership of any reports generated during the study. The inter-agency agreement incorporates comments from West Basin's General Counsel.

***NOTE:** The Water Resources Committee will review this item on April 16, 2009. The intent is for the Board to consider this item at the Special Joint Board Meeting of West Basin and WRD, scheduled for April 17, 2009. Due to posting requirements for the Special Board meeting and the date of the Water Resources Committee meeting, this memo will not have a Committee recommendation until April 17 at the time of the Special Board meeting.*

#### STRATEGIC BUSINESS PLAN IMPLEMENTATION:

Goal 1, Reliability – Maintain a level of local water reliability that supports the regional economy, our community and customer agency needs.

Goal 5, Customer/Community Services – Provide for the needs of our customer agencies and the communities we serve in a way that reflects their needs.

COMMITMENT STATEMENT:

Water Reliability – West Basin is committed to innovative planning and investments to provide water supply reliability and drought protection.

Customer Service – West Basin is committed to providing value by understanding and meeting the needs of our customers and the communities we serve

FISCAL IMPACTS:

West Basin’s share of the funding for this joint study \$11,500 is available in the Fiscal Year 2008-09 Water Resources Planning Budget.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item will be reviewed by the Water Resources Committee on April 16, 2009 and make a recommendation at the Special Joint Board meeting of West Basin and WRD on April 17, 2009.

RECOMMENDED MOTION:

That the Board authorizes the General Manager to enter into an agreement with the Water Replenishment District of Southern California, approved as to form by West Basin General Counsel, to jointly fund the Palos Verdes Peninsula Landslide Abatement Dewatering and Groundwater Drainage Beneficial Re-Use Study, in the amount of \$11,500.

LIST OF EXHIBITS:

Exhibit “A” – Draft Agreement No. XX Between the Water Replenishment District of Southern California and West Basin Municipal Water District to Jointly Fund the Palos Verdes Peninsula Landslide Abatement Dewatering and Groundwater Drainage Beneficial Re-Use Study.

**Agreement No. \_\_\_\_\_**  
**between**  
**Water Replenishment District of Southern California**  
**and**  
**West Basin Municipal Water District**  
**to**  
**Jointly Fund the**  
**Palos Verdes Peninsula Landslide Abatement Dewatering and**  
**Groundwater Drainage Beneficial Reuse Study**

**SECTION 1 – RECITALS**

This agreement is entered into \_\_\_\_\_, 2009, between the Water Replenishment District of Southern California (“WRD”), and West Basin Municipal Water District (“WEST BASIN”).

WHEREAS, Los Angeles County is home to approximately 10 million residents who depend on reliable sources of water; and

WHEREAS, two thirds of the water supply is imported from sources outside of the region; and

WHEREAS, under current drought conditions and re-allocation issues with water from the Sacramento-San Joaquin Delta, there is reduced availability and rising costs of imported water; and

WHEREAS, WRD is a special district created pursuant to California Water Code, Section 60000, *et seq.*, adopted by the California legislature in 1955; and

WHEREAS, WRD has operated since 1959 to protect and preserve the quantity and quality of the groundwater supplies in the Central and West Coast Groundwater Basins, which serve as the source of nearly 40 percent of the water used by the four million people overlying the WRD’s 420-square mile service area; and

WHEREAS, WRD’s mission includes managing and safeguarding the groundwater resources of the West Coast Basin by ensuring its water quality and by maximizing the amount of groundwater in the basins; and

WHEREAS, WEST BASIN was established for the purpose of, among other things, water conservation, and ensuring a reliable supply of potable water for the West Coast Basin; and

WHEREAS, because of local geology, communities on the Palos Verdes Peninsula do not have access to the West Coast Groundwater Basin, and as a result are entirely dependent on imported water as their potable water source; and

WHEREAS, there are two areas of the Palos Verdes Peninsula, Abalone Cove and Malaga Cove Plaza, where significant volumes of water beneath the surface and above the bedrock is actively dewatered/collected and discharged to the ocean; and

WHEREAS, WRD and WEST BASIN desire to jointly fund a study to assess the feasibility of diverting the drainage in each of the areas and possibly reusing the water, e.g. irrigation at a nearby park site or golf course, thereby offsetting demand for potable water in the vicinity.

NOW, THEREFORE, in consideration of the mutual benefits to be derived by WRD and WEST BASIN, and of the premises herein contained, it is hereby agreed by the parties as follows.

## **SECTION 2 – SCOPE OF WORK**

The Scope of Work for the study, developed jointly by WRD and WEST BASIN, is included as Exhibit A.

## **SECTION 3 – REQUEST FOR PROPOSAL/CONSULTANT SELECTION**

WRD and WEST BASIN jointly prepared the Request for Proposal. After consultation with WEST BASIN on the list of pre-qualified consultants, WRD issued the Request for Proposal to the consultants. WRD and WEST BASIN shall jointly select the consultant to conduct the study.

## **SECTION 4 – AGREEMENT ADMINISTRATION**

WRD shall contract with and administer the agreement with the consultant and keep WEST BASIN informed on the progress of the study on a monthly basis. WRD shall provide WEST BASIN a written report of said progress..

## **SECTION 5 – PAYMENTS**

WEST BASIN shall reimburse WRD for one-half of the costs for the consultant to conduct the study, up to \$\_\_\_\_\_. WRD shall invoice WEST BASIN on a monthly basis, submitting to WEST BASIN the invoices it receives from the selected consultant. WEST BASIN will not reimburse WRD for any additional costs to perform or complete the study, except pursuant to a prior written amendment to this Agreement.

## **SECTION 6 – REPORT OF FINDINGS**

WRD and WEST BASIN shall jointly own copies of draft and final technical memoranda, along with any manuals, documents, and any other reports generated during the study. WRD shall provide copies of these documents upon request to WEST BASIN.

## **SECTION 7 – NOTICES**

Notices required or permitted shall be given by personal delivery or by first class mail, postage prepaid, email, or facsimile transmission.

To: WRD  
Water Replenishment District of Southern California  
Attention: Phuong Ly  
4040 Paramount Blvd  
Lakewood, California 90712

To: WEST BASIN  
West Basin Municipal Water District  
Attention: Fernando Paludi  
17140 South Avalon Blvd  
Carson, California 90746

## **SECTION 8 - INDEMNIFICATION**

(a) WEST BASIN shall hold harmless, defend at its own expense, and indemnify WRD, its Directors, officers, employees, and agents against any and all liability, claims, losses, damages, or expenses, including reasonable attorneys' fees, arising from the negligence or willful misconduct of WEST BASIN or its officers, agents, or employees in rendering services under this agreement;

excluding, however, such liability, claims, losses, damages, or expenses arising solely from WRD's negligence or willful acts.

(b) WRD shall hold harmless, defend at its own expense, and indemnify WEST BASIN, its Directors, officers, employees, and agents against any and all liability, claims, losses, damages, or expenses, including reasonable attorneys' fees, arising from the negligence or willful misconduct of WRD or its officers, agents, or employees in rendering services under this agreement; excluding, however, such liability, claims, losses, damages, or expenses arising solely from WEST BASIN's negligence or willful acts.

## **SECTION 9 – TERM**

The Term of this agreement shall commence upon the date first above written and shall conclude upon delivery of the final technical memorandum or written report from WRD to WEST BASIN.

## **SECTION 10 – ASSIGNMENT**

No party to this agreement shall assign, sell, or otherwise transfer any obligation or interest in this Agreement without the specific written consent of the other parties to the agreement.

## **SECTION 11 - APPLICABLE LAW**

This Agreement shall be construed in accordance with and governed by the laws of the State of California.

## **SECTION 12 – INTEGRATION**

This Agreement represents the entire understanding of the parties. No prior oral or written understanding shall be of any force or effect with respect to those matters covered by this Agreement.

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed the date first above written.

APPROVED:

**Water Replenishment District of Southern California (WRD)**

By: \_\_\_\_\_  
Robb Whitaker, General Manager

APPROVED AS FORM

By: \_\_\_\_\_  
James M. Casso, WRD General Counsel  
Meyers Nave

**West Basin Municipal Water District (West Basin)**

By: \_\_\_\_\_  
Richard Nagel, General Manager

APPROVED AS FORM

By: \_\_\_\_\_  
Lemieux & O'Neill, West Basin General Counsel

## **EXHIBIT A**

### **SCOPE OF WORK**

The purpose of this preliminary study is to develop a project concept that collects, treats (if necessary) and delivers the extracted groundwater, gravity drainage, and possibly natural streamflow for irrigation at nearby locations on the Palos Verdes Peninsula, such as the Los Verdes, Palos Verdes, or Trump National Golf Courses or the Long Point Development and Golf Course. The scope of services to be provided by the selected consultant is outlined in detail below.

#### **Task 1 – Information Collection/Review**

Conduct a project kick-off meeting to obtain background information and available data. Perform one visit to the Abalone Cove and Malaga Cove Plaza dewatering sites to review existing infrastructure and sites for possible reuse. During the site visit, the consultant visually inspects the project areas for natural streamflow as well as possible use sites such as the Palos Verdes, Los Verdes, Long Point, and Trump National Golf Courses.

Compile and review available water quality, pumping, and flow data as well as information on well location, pumping capacity, and other existing infrastructure. Information will be compiled through discussions with staff at WRD, West Basin, the Abalone Cove Landslide Abatement District, the City of Rancho Palos Verdes, and the City of Palos Verdes Estates. No water quality or flow monitoring is included in this scope.

#### **Task 2 – Fatal Flaw Analysis or Conceptual Evaluation**

Identify potential fatal flaws that prevent further project research. If no fatal flaws are identified, develop a project concept to deliver some or all of the extracted groundwater to beneficial irrigation uses. The project concept will include a general description of facilities including conveyance, treatment, monitoring as well as an estimate of facility capital and operations and maintenance (O&M) costs. Proposed facilities will be based upon experience with other similar locations. Evaluating site-specific permitting issues will be beyond the scope of this study.

#### **Task 3 – Technical Memorandum Preparation**

Prepare a single draft technical memorandum summarizing the findings, two proposed project concepts (one for Abalone Cove, the other for Malaga Cove Plaza), and the estimated total and unit cost of water delivered associated with the projects (possibly also presented as a range of cost). The project concepts will be presented via a marked up aerial image with features identified.

Once the draft technical memorandum is reviewed by WRD and West Basin, prepare a final technical memorandum. Provide six (6) copies of the draft and final technical memorandums, plus the electronic PDF files of these documents to WRD.



**MEMORANDUM**

**ITEM NO. 5**

*Prepared by: Sheryll Moffat*

*Reviewed by: Elsa Lopez*

*Approved by: Robb Whitaker*

**DATE: APRIL 17, 2009**  
**TO: JOINT WRD/WBMWD BOARD OF DIRECTORS**  
**FROM: ROBB WHITAKER, GENERAL MANAGER**  
**SUBJECT: WATER SUPPLY ALLOCATION**

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**SUMMARY**

WBMWD staff will provide a report (see attachment).

**FISCAL IMPACT**

None.

**STAFF RECOMMENDATION**

For information.



**WEST BASIN MUNICIPAL WATER DISTRICT**  
17140 S. Avalon Blvd., Suite 210  
Carson, CA 90746

**AGENDA NO. 5**

**APRIL 16, 2009 – Water Resources**  
Little (Chair), Gray  
**APRIL 17, 2009 – Joint West Basin/WRD**  
**Board Meeting**  
Prepared by: Fernando Paludi  
Submitted by: Paul Shoenberger  
Approved by: Rich Nagel

## INFORMATION CALENDAR

### WATER SHORTAGE ALLOCATION PLAN AMENDMENT TO MAXIMIZE BENEFITS OF RECYCLED WATER

#### SUMMARY:

Under the West Basin Water Shortage Allocation Plan, customer agency allocations of imported water are determined predominantly by usage during a baseline period of 2004-06. Any imported water converted to recycled water since the baseline period is a 100% reliability benefit to the customer agency since demand for imported water decreases but the allocation remains the same.

The Shortage Allocation for the Water Replenishment District (WRD) includes the imported water used for injection at the West Coast Barrier during the baseline period that has since been converted to recycled water as part of the increase in recycled water injection from 50% to 75%. At a Level 2 implementation of the Allocation Plan, as will be proposed by staff to the Board at the regular meeting on April 27, WRD's allocation from West Basin is significantly higher than what is projected to be required for injection at the Barriers in Fiscal Year 2009-10.

A policy adjustment to the Allocation Plan would allow for WRD's "surplus allocation" to be available for the benefit of the West Basin service area that has collectively invested in the recycled water system and its greater reliability. WRD staff has indicated a willingness to support such a change to the Allocation Plan to maximize recycled water benefits if certain protections are included against allocation penalties.

Although the details of how West Basin staff would administer the distribution of this allocation benefit will be presented to the Board at the April 27 meeting as an amendment to the Allocation Plan, staff has outlined the following elements:

1. West Basin and WRD would agree on a reasonably conservative projection of imported water required for injection at both West Coast Basin Barriers. Any allocation below Level 2 and above the agreed-to quantity would be considered available for the benefit of other customer agencies.
2. Recognizing that WRD ultimately does not determine the actual injection quantity, WRD would be provided relief from penalties for use above the agreed-to quantity of imported water, up to their original Level 2 allocation.
3. The Allocation Plan amendment would be effective only for the 2009 allocation period, and would be re-visited in the event of future shortage allocations beyond 2009.
4. The policy would be structured in a way that provides maximum flexibility to West Basin to assist retail customer agencies negatively impacted under the Allocation Plan.

STRATEGIC BUSINESS PLAN IMPLEMENTATION:

Goal 1, Reliability – Maintain a level of local water reliability that supports the regional economy, our community and customer agency needs.

Goal 5, Customer/Community Services – Provide for the needs of our customer agencies and the communities we serve in a way that reflects their needs.

COMMITMENT STATEMENT:

Water Reliability – West Basin is committed to innovative planning and investments to provide water supply reliability and drought protection.

Customer Service – West Basin is committed to providing value by understanding and meeting the needs of our customers and the communities we serve.

FISCAL IMPACTS:

Not applicable.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item will be reviewed by the Water Resources Committee on April 16, 2009

RECOMMENDED MOTION:

This item is for information only.

LIST OF EXHIBITS:

None.

W:\westbasinboard\wbmwd\April 2009\09Apr025 April 17



**MEMORANDUM**

**ITEM NO. 6**

*Prepared by: Sheryll Moffat*

*Reviewed by: Elsa Lopez*

*Approved by: Robb Whitaker*

**DATE: APRIL 17, 2009**  
**TO: JOINT WRD/WBMWD BOARD OF DIRECTORS**  
**FROM: ROBB WHITAKER, GENERAL MANAGER**  
**SUBJECT: WEST COAST BASIN OPTIMIZATION PLAN**

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**SUMMARY**

WBMWD staff will provide an oral report.

**FISCAL IMPACT**

None.

**STAFF RECOMMENDATION**

For information.



**MEMORANDUM**

**ITEM NO. 7**

*Prepared by: Sheryll Moffat*

*Reviewed by: Elsa Lopez*

*Approved by: Robb Whitaker*

**DATE: APRIL 17, 2009**  
**TO: JOINT WRD/WBMWD BOARD OF DIRECTORS**  
**FROM: ROBB WHITAKER, GENERAL MANAGER**  
**SUBJECT: WEST BASIN RELIABILITY 2020 PROGRAM**

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**SUMMARY**

WBMWD staff will provide an oral report.

**FISCAL IMPACT**

None.

**STAFF RECOMMENDATION**

For information.



**MEMORANDUM**

**ITEM NO. 8**

*Prepared by: Sheryll Moffat*

*Reviewed by: Elsa Lopez*

*Approved by: Robb Whitaker*

**DATE: APRIL 17, 2009**

**TO: JOINT WRD/WBMWD BOARD OF DIRECTORS**

**FROM: ROBB WHITAKER, GENERAL MANAGER**

**SUBJECT: WATER REPLENISHMENT DISTRICT WATER INDEPENDENCE NOW (NOW) PROGRAM**

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**SUMMARY**

WRD staff will provide an oral report.

**FISCAL IMPACT**

None.

**STAFF RECOMMENDATION**

For information.



**MEMORANDUM**

**ITEM NO. 9**

*Prepared by: Sheryll Moffat*

*Reviewed by: Elsa Lopez*

*Approved by: Robb Whitaker*

**DATE: APRIL 17, 2009**  
**TO: JOINT WRD/WBMWD BOARD OF DIRECTORS**  
**FROM: ROBB WHITAKER, GENERAL MANAGER**  
**SUBJECT: LEGISLATIVE REPORT**

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**SUMMARY**

WBMWD and WRD staff will provide oral reports.

**FISCAL IMPACT**

None.

**STAFF RECOMMENDATION**

For information.



**MEMORANDUM**

**ITEM NO. 10**

*Prepared by: Sheryll Moffat*

*Reviewed by: Elsa Lopez*

*Approved by: Robb Whitaker*

**DATE: APRIL 17, 2009**

**TO: JOINT WRD/WBMWD BOARD OF DIRECTORS**

**FROM: ROBB WHITAKER, GENERAL MANAGER**

**SUBJECT: HEAL THE BAY ANNUAL DINNER SPONSORSHIP**

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**SUMMARY**

WBMWD staff will provide an oral report.

**FISCAL IMPACT**

None.

**STAFF RECOMMENDATION**

For information.



## MEMORANDUM

ITEM NO. 11

*Prepared by: Sheryll Moffat*

*Reviewed by: Elsa Lopez*

*Approved by: Robb Whitaker*

**DATE: APRIL 17, 2009**

**TO: JOINT WRD/WBMWD BOARD OF DIRECTORS**

**FROM: ROBB WHITAKER, GENERAL MANAGER**

**SUBJECT: SMART LANDSCAPE EXPO, MAY 2, 2009**

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### SUMMARY

WBMWD staff will give an oral report on this joint agency partnership.

### FISCAL IMPACT

None.

### STAFF RECOMMENDATION

For information.