



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

**AGENDA NO. 9**

**MAY 14, 2009 – Water Resources**

Little (Chair), Gray

**MAY 26, 2009 – Board Meeting**

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Approved by: Rich Nagel

## CONSENT CALENDAR

### RECYCLED WATER CUSTOMER DEVELOPMENT PROJECT UPDATE

#### SUMMARY:

This Board memorandum provides the monthly update on the progress of West Basin's pursuit of recycled water customers.

#### **Carson**

California State University Dominguez Hills – Cooling Tower Expansion (24 AFY): The University is in the process of retrofitting the central plant to use recycled water for cooling tower make up. It is anticipated that the central plant will be connected to the recycled water system by July 2009.

Carson Mall (120 AFY): The Mall development is currently being constructed and will use recycled water for irrigation of landscaping. West Basin engineering staff is in the process of designing a pipeline that will serve the site with recycled water. It is anticipated that the site will be connected to the recycled water system by the end of 2010.

Shell Oil Company Irrigation System (15 AFY): The Company has a storage facility located in Carson that has a large irrigation system around the perimeter of the site. Staff is working with the customer to develop a retrofit analysis to determine the feasibility of using recycled water for irrigation.

Pet Haven (10 AFY): The owner of the site is working with contractors to obtain additional bids for the recycled water retrofit. Staff will continue working with the customer to gain commitment for recycled water conversion.

Dominguez Tech Center, Private Anderson Park, and Sodexo (230 AFY): They will be engaged by staff as a result of the allocation of Federal Stimulus funding to construct a lateral to these sites.

#### **El Segundo**

Los Angeles Air Force Base (5 AFY): The Base is in the process of expanding the existing irrigation system to the perimeter of the Base. It is anticipated that this work will be completed by the mid May 2009.

Imperial Avenue (43 AFY): Staff is working with the City of El Segundo to connect three sites to the recycled water system. The Imperial Avenue dog park, Memory Lane green area, and the median on

Imperial Highway and Main Street will be converted to use recycled water for irrigation. It is anticipated that the sites will be connected to the recycled water system in September 2009.

El Segundo Fire Station (10 AFY): The Fire Station located at the Campus El Segundo is currently under construction. The Station will use recycled water for flushing toilets and urinals, and for irrigation of landscaping. Staff is providing assistance with the required Department of Public Health approval process. The site is anticipated to be connected by September 2009.

Equinix (300 AFY): The Equinix data center will use recycled water for cooling tower make up. The data center is being built in three phases. The first phase of the Equinix data center is scheduled to be completed in August 2009. Two remaining phases are planned to be completed in 2010.

Aerospace Corporation Expansion (5 AFY): A new building is under construction at the Aerospace Corporation within the El Segundo Campus. It is anticipated that the irrigation system surrounding the new building will be connected to the recycled water system in early 2010.

Mattel (10 AFY): A feasibility analysis has been developed for the conversion of the Mattel Headquarters landscaping. Staff will be meeting with Mattel in May 2009 to discuss the retrofit design.

Raytheon Cooling Tower (50 AFY): Raytheon is in the process of evaluating the use of recycled water for the cooling tower make up and implementing the Water Conservation Technology International (WCTI) treatment system that has worked successfully at Honda. Staff is providing assistance in the development of the feasibility analysis.

Northrop Grumman Office Building (5 AFY): The office building is located across from the Los Angeles Air Force Base on Douglas Street. Staff is working with the customer to develop a retrofit analysis for this site.

The Pointe South Bay (10 AFY): This new shopping center will use recycled water for irrigation of landscaping. However, construction has stopped due to current economic conditions. The site owners believe that construction will begin again later this Fall.

## **Inglewood**

Ashwood and Rogers Parks (7 AFY): Staff is working on a retrofit agreement with the City of Inglewood to convert these two sites. The retrofit agreement will allow West Basin to implement the retrofits on behalf of the City.

Inglewood Unified School District (53 AFY): Inglewood High School, Monroe Middle School, and Woodworth Elementary School had new irrigation systems constructed in 2003. At the completion of the project it was discovered that the School District failed to include backflow devices on the potable system that are required at all recycled water sites. Since then, staff has attempted to engage the School District in rectifying the situation and completing the conversion process without success.

In 2008, a retrofit loan agreement with the School District was developed to retrofit the schools. However, the sudden departure of the School District Chief Financial Officer (CFO) halted the project. Staff was told that the project was put on hold until a new CFO was in place. Since then, there have been additional changes in the management at the School District, including the School District Superintendent. The recycled water project has been in limbo since then.

Los Angeles Southwest College (54 AFY): The Los Angeles Community College District (College District) recently contacted staff to discuss the connection of the college irrigation system. The site was not connected in the past due to a problem with potable water pressure that has since been corrected. Staff will work with the College District to restart the process to connect this site to the recycled water system. The College District has asked that staff provide the retrofit design information in order to develop a plan for conversion.

### **Manhattan Beach**

Manhattan Beach Towers (10 AFY): The building management is obtaining construction bids to retrofit the irrigation system to recycled water. The site is anticipated to be connected to the recycled water system in September 2009.

Marriott Golf Course (50 AFY): Marriott is currently evaluating the additional costs needed to maintain the golf course greens using recycled water. Marriott expects to reach a decision regarding the site retrofit by the end of May 2009.

### **Torrance**

Torrance – Anza Phase One (103 AFY): Staff is working with the City of Torrance and Torrance Unified School District to convert West Torrance High School, Victor Elementary School, Anza Elementary School, Jefferson Middle School, and Entradero, Victor, and Paradise Parks. These sites are anticipated to be connected to the recycled water system in 2010.

American Honda Irrigation Expansion (28 AFY): Due to the recession, expansion of the recycled water irrigation system has been put on hold. However, due to the drought and impending rate increases, Honda representatives are currently re-evaluating the conversion.

### **Other**

El Camino College (50 AFY): The College has scheduled connection to the recycled water system by October 2009. Staff is providing assistance with the Department of Public Health approval of the retrofit designs and development of the proposal to obtain bids for the retrofit work.

Victoria Park (Carson, 40 AFY) & Alondra Golf Course (LA County, 340 AFY): Staff is working with the Los Angeles County Department of Parks and Recreation to connect these two sites to the recycled water system. A retrofit agreement is being developed that would allow West Basin to take a project management role for the retrofit construction. The agreement would specify that all costs associated with the retrofit would be repaid by the County to West Basin. Retrofit construction is anticipated during Fall 2009.

Cal Trans I-105 & Western and I-405 & Manchester (9 AFY): The conversion of these sites have been put on hold due to budget constraints.

### **Customer Service**

Toyota: The Water Conservation Technology International (WCTI) treatment system for the cooling towers has been delivered and is scheduled to be installed by May 20. This system will address biofilm by filtering and then concentrating salt in the water to the point where bacteria cannot survive.

Home Depot: The water quality issues at Home Depot are twofold:

1. The combination of clay soil and constituents in the recycled water prevent acceptable infiltration of water through the root zone of the turf; and
2. The ammonia in the recycled water converts to nitrates during the warmer periods of the year, (June-October) that over fertilizes the plants causing weakness and susceptibility to disease.

West Basin assisted Home Depot Center with the acquisition of Zeta Core treatment system that prevents the water from binding and allows better penetration into the soil. Kyle Waters, the Superintendent at Home Depot reports that results of this treatment will be forthcoming in the next 30 days as we reach the completion of the first year on the system.

The spike in nitrate levels anticipated with the coming summer is being addressed in the short-term with the construction of a potable back-up system that Home Depot will be able to use to flush the nitrates and replace with lower nitrate potable water. This is a short-term solution until steps can be taken to adjust the water quality more permanently either with reduced detention time, additional disinfection, or other processes.

### 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 are included in the Fiscal Year 2008-09 Operations Program Budget.

ENVIRONMENTAL COMPLIANCE:

Not applicable.

COMMITTEE STATUS:

This item was reviewed by the Water Resources Committee on May 14, 2009 and agendized to the May 26, 2009 Board meeting Consent Calendar.

RECOMMENDED MOTION:

This item is for information only.

LIST OF EXHIBITS:

None.