

**MEETING OF THE WATER RESOURCES COMMITTEE
OF THE BOARD OF DIRECTORS
WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA
4040 PARAMOUNT BOULEVARD, LAKEWOOD, CALIFORNIA 90712
5:00 P.M., WEDNESDAY, JULY 13, 2016**

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 ANY "ACTION" TAKEN BY THE BOARD OR A COMMITTEE AT THE SAME MEETING.

- 1. DETERMINATION OF A QUORUM**
- 2. PUBLIC COMMENT**
Pursuant to Government Code Section 54954.3.
- 3. OPERATIONS UPDATE**
Staff Recommendation: For information.
- 4. REVIEW OF EXISTING RECYCLED WATER PURCHASE AGREEMENTS**
Staff Recommendation: For information.
- 5. NOTICE OF COMPLETION FOR THE ROBERT W. GOLDSWORTHY
DESALTER EXPANSION, NEW SOURCE WATER WELLS PROJECT**
Staff Recommendation: That the Water Resources Committee recommend that the Board of Directors authorize the Assistant General Manager/Chief Engineer to file for a Notice of Completion for the Project with the Los Angeles County Clerk's office in accordance with the California Public Contract Code.
- 6. GROUNDWATER BASIN UPDATE**
Staff Recommendation: For information.
- 7. DIRECTORS REPORTS, INQUIRIES, AND FOLLOW-UP OF DIRECTIONS TO
STAFF**
- 8. ADJOURNMENT**
The Water Resources Committee will adjourn to its next regular meeting currently scheduled for August 10, 2016 at 5:00 P.M.

Agenda posted by Chief Financial Officer Scott Ota on July 8, 2016.

In compliance with the Americans with Disabilities Act (ADA), if special assistance is needed to participate in the Board meeting, please contact Chief Financial Officer Scott Ota 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.

EXHAUSTION OF ADMINISTRATIVE REMEDIES – If you challenge a District action in court, you may be limited to raising only those issues you or someone else raised at the public hearing described in this notice, or in written correspondence delivered to the Deputy Secretary at, or prior to, the public hearing. Any written correspondence delivered to the Chief Financial Officer before the District's final action on a matter will become a part of the administrative record.



MEMORANDUM

ITEM NO. 3

DATE: JULY 13, 2016

TO: WATER RESOURCES COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

SUBJECT: OPERATIONS UPDATE

SUMMARY

The intent of the Operations Update staff report/agenda item is to inform and update members of the Water Resources Committee on a regular and reoccurring basis about operational matters, technical issues, engineering plans, and various multi-agency strategies in regards to all of the District's current and planned operational facilities. This report includes current updates on the Los Angeles Terminal Island Water Reclamation Plant, the Turnout Structures, the Leo J. Vander Lans Facility, and the Goldsworthy Desalter.

Terminal Island Water Reclamation Plant (TIWRP)

The Los Angeles Department of Water and Power (LADWP) TIWRP expansion is currently on schedule to be completed in December 2016. As part of the plant expansion, the facility is being equipped with a surge tank which should be completed this month (July). The plant has been shut down since 6/20/16 to enable the tie in to the new tank. Concurrently, the County has a portion of the barrier turned off so they can locate and repair a leak. The draft Title 22 Engineering Report for the project was submitted in May 2016 to the RWQCB along with a draft performance testing schedule. City is in discussions with the RWQCB to allow 100% RW use at the Gap while the performance testing is being implemented. Otherwise, all the RW from the plant would need to be discharged to the harbor. Upcoming TIWRP expansion schedule:

- December 2016 – complete construction
- February 2017 (1 month shutdown) – software migration plus other work (ceiling installation).
- March/April 2017 – compliance testing; will try to keep deliveries to the barrier (up to the RWQCB)

Other components being worked on by the LADWP as part of the TIWRP expansion include Machado Lake Pipeline Project, Navy Tank Site (storage reservoir), Additional Recycled Water Customers, and Residual Chlorine Levels (County's Requirements).

Turnout Structures

A final notice of completion is being prepared by staff for both CIP Committee and Board review, and approval, respectively. The project should be closed out completely before the end of July.

Robert W. Goldsworthy Desalter Update

At the end of May, laboratory results for Madrona Well No. 2 showed that the annual average MTBE had exceeded the secondary standards (5 µg/L) under the Title 22 Regulations. The MTBE levels in the Desalter product water (supplied to Torrance residents), however, were in compliance. The City of Torrance took the Desalter offline and reported the incidence to the Department of Drinking Water (DDW). The DDW has requested the following actions with respect to the exceedance of MTBE:

- Perform a treatability study for MTBE and other potential contaminants in preparation for the addition of future treatment facilities for MTBE.
- Document the MTBE incidence in Torrance's annual Consumer Confidence Report (CCR).
- Increase the monitoring frequency of MTBE from quarterly to monthly.

While the Desalter was offline, a chemical cleaning was performed on the RO membranes. The Desalter resumed operations for 2 days when a sudden pressure fluctuation through the RO train triggered a shutdown of the RO system. The Desalter is currently offline pending an investigation of the high pressure drop.

Leo J. Vander Lans Facility (LVL) Update

LVL Operations. The LVL facility was operated in a 24/7 mode until June 11th prior to taking offline for equipment suppliers to perform warranty repairs and system updates. The LVL resumed operations on June 22nd before a water leak was discovered on June 24th. The plant was taken offline for leak investigation and repairs. The plant is expected to resume operations in early July. The Barrier injection quantity in June was approximately 526 AF, including 126 AF of recycled water and 400 AF of imported water.

Conduct an Engineering Study to Optimize Barrier/LVL Operations. The goals of this study are to (1) increase the recycled water injection flowrate to close to 100% while allowing a small portion of imported water to flow without incurring MWD's low-flow penalties; and (2) optimize operational and flow equalization strategies to allow consistent and stable 24/7 operations with minimum shutdowns.

On June 16th, the District Board approved a contract with RMC Consultants to conduct the aforementioned study. A project kickoff meeting was held on June 23rd with project stake holders including the County Public Works Department and the Long Beach Water Department.

STAFF RECOMMENDATION

For information.



MEMORANDUM

ITEM NO. 4

DATE: JULY 13, 2016

TO: WATER RESOURCES COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

SUBJECT: REVIEW OF RECYCLED WATER PURCHASE AGREEMENTS

SUMMARY

The District currently purchases recycled from various agencies for replenishment of the Central and West Coast Basins. This replenishment occurs through either surface spreading facilities located in the Montebello Forebay, or injection wells that form the West Coast, Dominguez Gap and Alamitos seawater intrusion barriers.

District staff will provide the Committee with an overview of the terms of the agreements under which this recycled water is purchased.

FISCAL IMPACT

For information.

STAFF RECOMMENDATION

For information.



MEMORANDUM

ITEM NO. 5

DATE: JULY 13, 2016

TO: WATER RESOURCES COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

**SUBJECT: NOTICE OF COMPLETION FOR THE ROBERT W. GOLDSWORTHY
DESALTER EXPANSION, NEW SOURCE WATER WELLS PROJECT**

SUMMARY

On November 20, 2014, the Board approved entering into a construction contract agreement with South West Pump & Drilling, Incorporated, subject to approval of form by District Counsel, for the installation of groundwater production wells for the Goldsworthy Desalter Expansion Project in the total amount of \$2,127,740 and an authorize construction contingency in the amount of \$212,774, for a total not to exceed amount of \$2,340,514. A Notice of Award was issued on November 20, 2014, and following receipt of the required preconstruction documents and equipment availability a Notice to Proceed was issued on February 23, 2015.

On April 2, 2015, the Board approved the conversion of one well location (in the parking lot adjacent to the Torrance Police Department, approximately 1/3 mile south of the Goldsworthy Desalter) to a nested monitoring well and the installing a third pilot borehole in the amount of \$600,000 plus a contingency of \$50,000. The revised project total amount was \$2,727,740 plus a total contingency of \$262,774 for a total not to exceed amount of \$2,990,514.

The well installation activities were completed in May 2016 with the final well alignment assessment completed in June 2016. The construction contract is now considered complete, and there are no outstanding changes or stop notices. Upon Board approval, the District will file a required Notice of Completion for the Project with the County Clerk's office.

FISCAL IMPACT

Sufficient funds are included in the District's Capital Improvement Program (CIP) for the Robert W. Goldsworthy Desalter Expansion, New Source Water Wells Project (Proj. No. 0020511).

STAFF RECOMMENDATION

That the Water Resources Committee recommend that the Board of Directors authorize the Assistant General Manager/Chief Engineer to file for a Notice of Completion for the Project with the Los Angeles County Clerk's office in accordance with the California Public Contract Code.



MEMORANDUM

ITEM NO. 6

DATE: JULY 13, 2016
TO: WATER RESOURCES COMMITTEE
FROM: ROBB WHITAKER, GENERAL MANAGER
SUBJECT: GROUNDWATER BASIN UPDATE

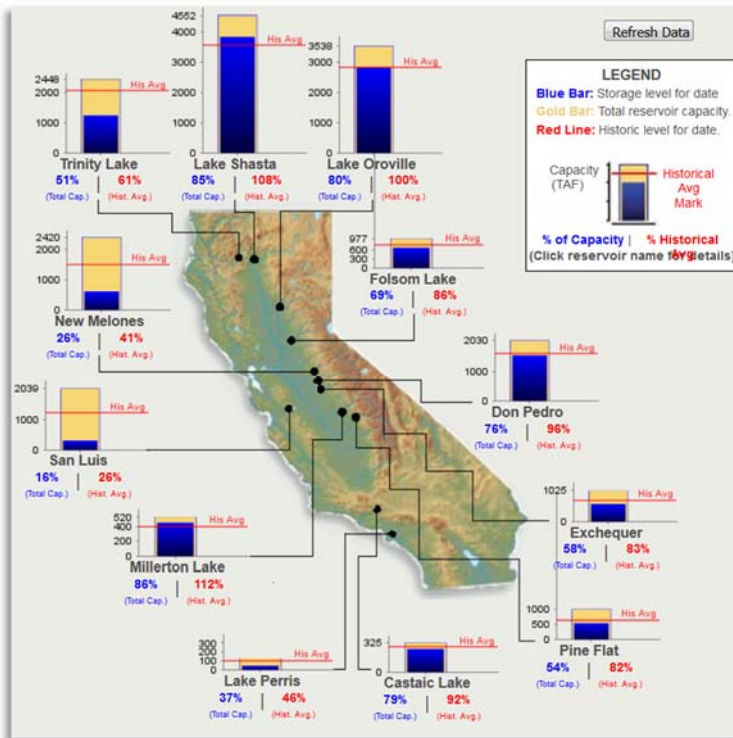
SUMMARY

Staff monitors groundwater conditions in its service area throughout the year. A summary of the latest information is presented below.

Precipitation

The WRD precipitation index reports that as of July 6, 2016, there had been 6.76 inches of rainfall since the start of the Water Year on October 1, 2015. Normal for this time of year is 15.26 inches, so the District is 44% of normal. Approximately 59% of the State continues to be under severe to exceptional drought conditions as reported by the U.S. Drought Monitor (as of July 5, 2016).

Reservoirs (as of July 6, 2016)



CA DWR Reservoirs (SWP)
Storage in Million Acre Feet

Reservoir	Storage	Capacity	% Full
Trinity Lake	1.25	2.45	51%
Lake Shasta	3.85	4.55	85%
Lake Oroville	2.83	3.54	80%
Folsom Lake	0.67	0.98	69%
New Melones	0.62	2.40	26%
Don Pedro	1.55	2.03	76%
Exchequer	0.59	1.02	58%
San Luis	0.32	2.04	16%
Millerton Lake	0.44	0.52	86%
Pine Flat	0.54	1.00	54%
Castaic Lake	0.26	0.33	79%
Lake Perris	0.05	0.13	37%
Silverwood	0.07	0.08	88%

MWD Reservoirs (CRA)
Storage in Million Acre Feet

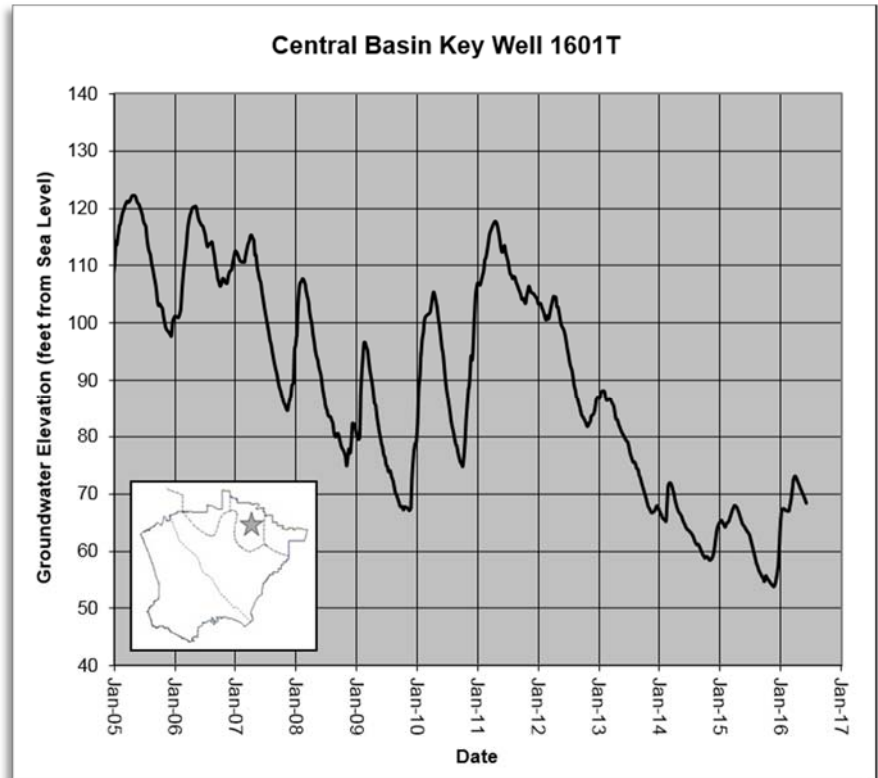
Reservoir	Storage	Capacity	% Full
Powell	13.90	24.30	57%
Mead	9.37	26.12	36%
DVL	0.44	0.81	54%

Blue - Increase in storage since the last report.

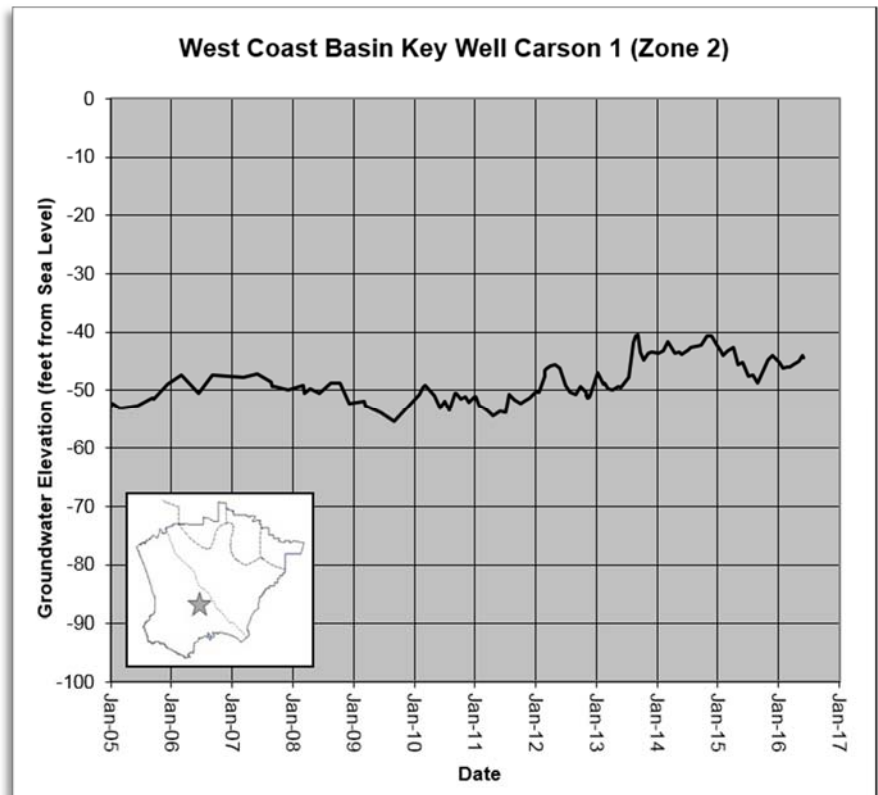
Groundwater Levels

Groundwater levels in key monitoring wells are shown in the hydrographs below.

Central Basin Key Well 1601T is between the two spreading grounds and rises rapidly with rainfall and replenishment but falls sharply during dry spells and lack of replenishment. Groundwater levels in the well decreased 2.6 feet since the last report.

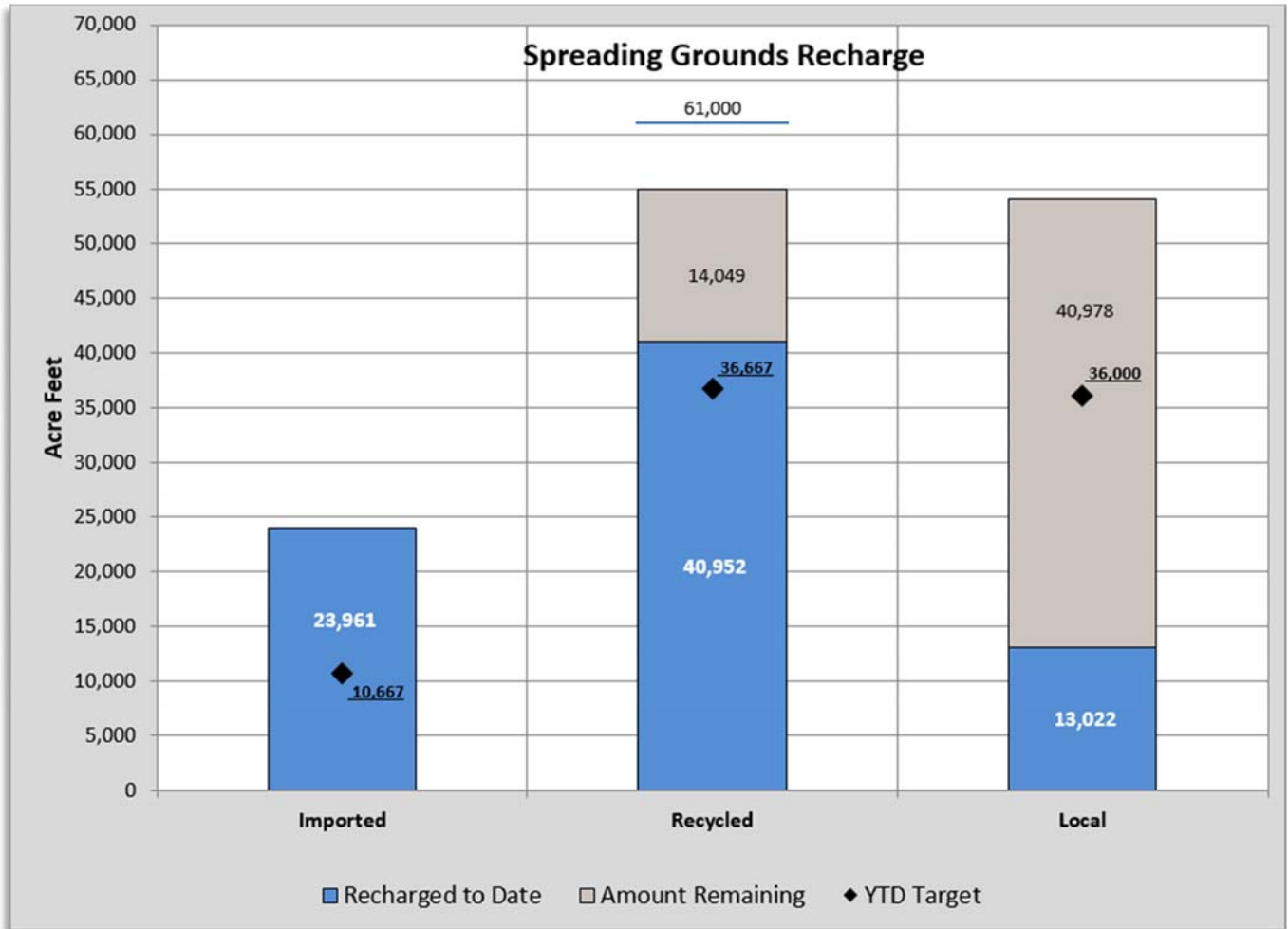


West Coast Basin Key Well Carson #1 is in the confined aquifers and does not respond readily to rainfall but instead to changes in pumping patterns and barrier recharge. Water levels increased 0.6 foot since the last report.



Montebello Forebay Spreading Grounds (October 1, 2015 – May 31, 2016)

The following Chart shows the preliminary spreading grounds replenishment water to date:

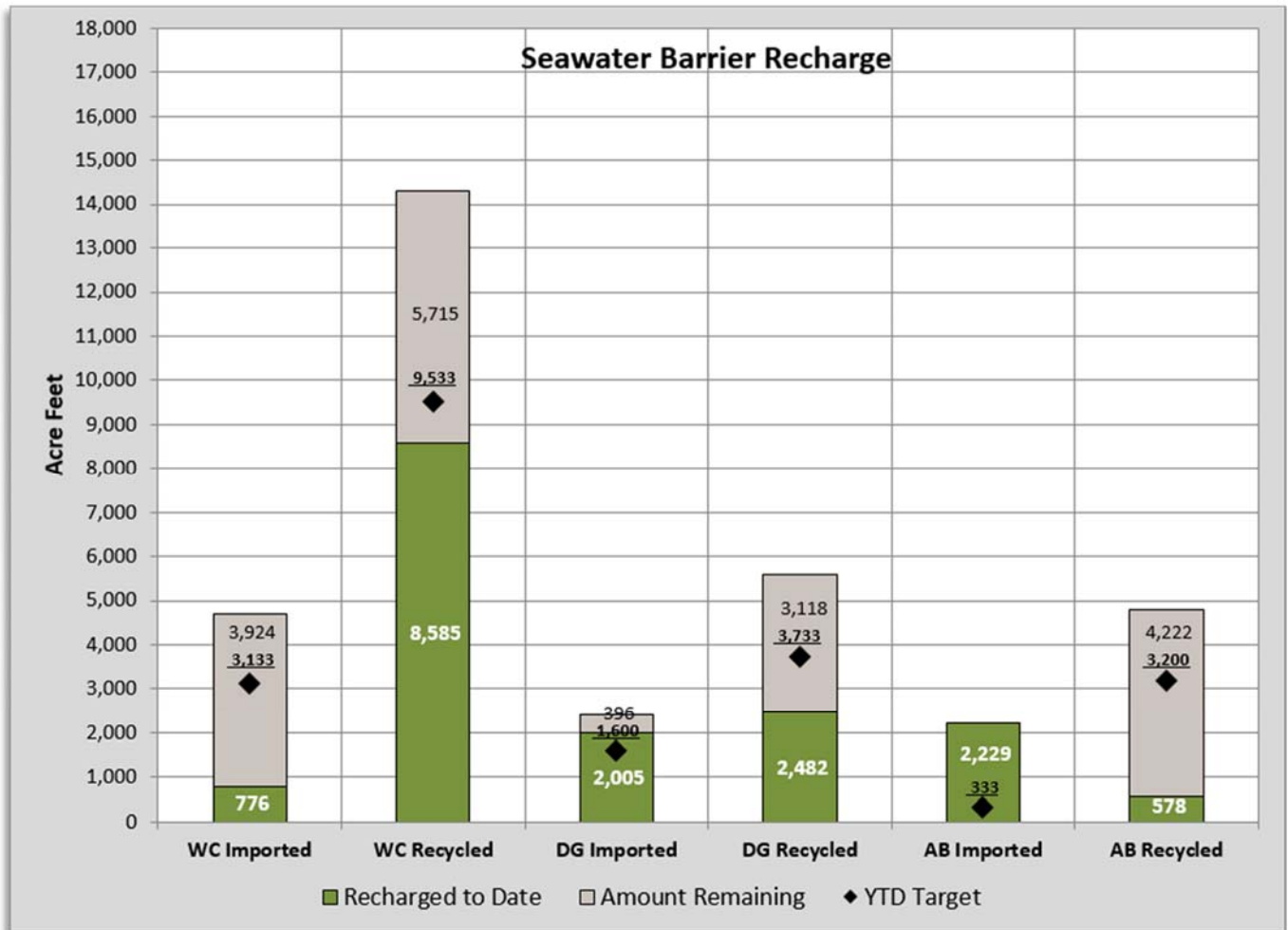


The District has imported a total of 23,961 acre-feet of import water this water year and no other orders are pending until next water year (starting October 1st).

Preliminary numbers for the first eight months of the water year show that 40,952 acre-feet of recycled water has been recharged, which is above the YTD target amount of 36,667 acre-feet. The 120-month running average of recycled water contribution in the Montebello Forebay is 37.2% and the regulatory maximum is 45%.

Local water (stormwater plus dry weather urban runoff) is captured by the Los Angeles County Department of Public Works (DPW) at the spreading grounds for recharge. The low amounts this year due to a dry winter have been offset by the combined purchases and deliveries of imported and recycled water by WRD. Local water amounts are determined as the sum of the total waters conserved at the spreading grounds less the imported and recycled water deliveries. Local water received through the end of May is 13,022 acre-feet based on this analysis.

Seawater Barrier Well Injection and Replenishment (October 1, 2015 – May 31, 2016):
 The following Chart shows the barrier water injection to date:



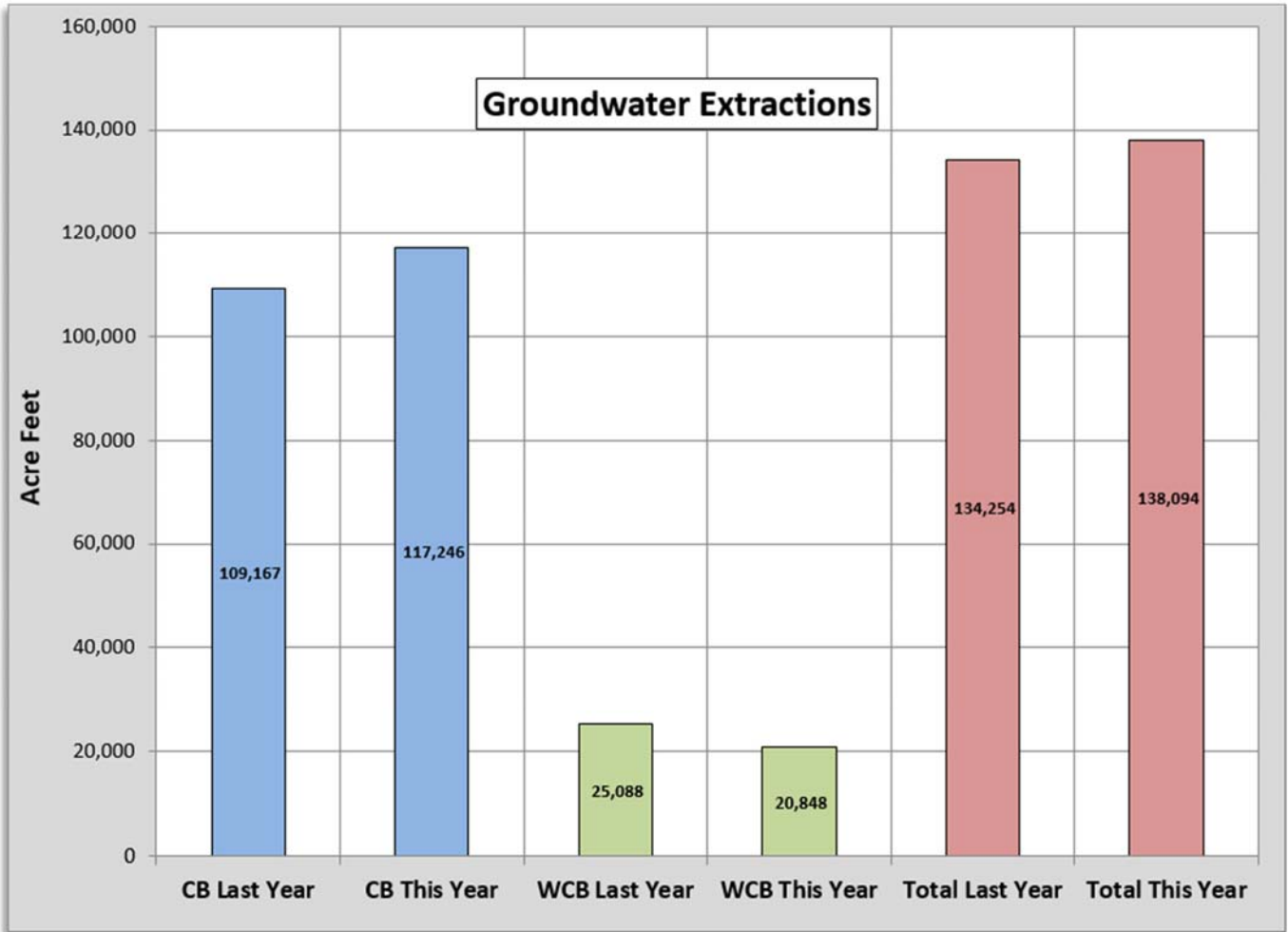
Preliminary numbers for the first eight months of the water year show that the West Coast Barrier used 776 acre-feet of imported water and 8,585 acre-feet of recycled water, or 92% recycled water. The Dominguez Gap Barrier used 2,005 acre-feet of imported water and 2,482 acre-feet of recycled water, or 55% recycled water. The Alamitos Barrier on the WRD side used an estimated 2,229 acre-feet of imported water and 578 acre-feet of recycled water, or 21% recycled water.

In-Lieu Replenishment Water

No In-Lieu replenishment water has been delivered to date in the current water year.

Pumping (October 1, 2015 – May 31, 2016)

Preliminary numbers for groundwater production in the District through May 2016 indicate that 138,094 acre-feet were pumped compared to 134,254 acre-feet the year previous, or an increase of 3,840 acre-feet (2.9%). In the Central Basin, pumping was 8,079 acre-feet higher than the previous water year (7.4%) and the West Coast Basin was down 4,240 acre-feet from the previous water year (-16.9%). The Chart below shows the 2015/16 Water Year pumping versus the 2014/15 Water Year.



FISCAL IMPACT

For information.

STAFF RECOMMENDATION

For information.