SPECIAL NOTICE REGARDING PUBLIC PARTICIPATION AT MEETINGS OF THE WATER REPLENISHMENT DISTRICT OF SOUTHERN CALIFORNIA (WRD)

The President of the United States and the Governor of California have both declared a State of Emergency as a result of the threat of the novel coronavirus COVID-19. The Governor issued Executive Order N-33-20 which orders all individuals to stay at home, and also Orders N-25-20 and N-29-20 which direct Californians to cancel all large gatherings and allows for teleconferencing of public meetings. Additionally, the County of Los Angeles Department of Public Health issued a Safer At Home Order on April 10, 2020 prohibiting public gatherings or events of any size through at least May 15, 2020. The health and wellbeing of the public and WRD staff is of utmost importance to us. To that end, no members of the public will be allowed to attend in-person meetings, including this meeting. Instead, members of the public may teleconference into this meeting by following the information below.

To facilitate public participation and comments during this meeting, you may email any comments to board@wrd.org no later than one hour before the meeting is scheduled to begin. You may also listen to the meeting and have the opportunity to provide public comment by calling toll free (800) 309-2350 and pressing 9215521# for the Conference ID. You will be muted on the call to listen and can press Star 5 (*5) during the Public Comment section of the Agenda to request the opportunity to be unmuted and to make a comment.

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

2. PUBLIC COMMENT
   Pursuant to Government Code Section 54954.3

3. APPROVE THE MINUTES OF FEBRUARY 18, 2020
   Staff Recommendation: The Water Resources Committee approves the minutes as submitted.
4. OPERATIONS UPDATE  
**Staff Recommendation:** The Water Resources Committee receive and file the report.

5. GROUNDWATER BASIN UPDATE  
**Staff Recommendation:** The Water Resources Committee receive and file the report.

6. WATER RESOURCES PLANNING UPDATE  
**Staff Recommendation:** For discussion and possible action.

7. DEPARTMENT REPORT  
**Staff Recommendation:** For discussion and possible action.

8. DIRECTORS’ REPORTS, INQUIRIES, AND FOLLOW-UP OF DIRECTIONS TO STAFF

9. ADJOURNMENT  
_The Committee will adjourn to the next meeting currently scheduled on May 19, 2020, at 11:00 AM._

In compliance with the Americans with Disabilities Act (ADA), if special assistance is needed to participate in the meeting, please contact Deputy Secretary 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 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 District office before the District’s final action on a matter will become a part of the administrative record.
DATE: APRIL 21, 2020

TO: WATER RESOURCES COMMITTEE

FROM: ROBB WHITAKER, GENERAL MANAGER

SUBJECT: APPROVE THE MINUTES OF FEBRUARY 18, 2020

SUMMARY

A meeting of the Water Resources Committee of the Board of Directors of the Water Replenishment District of Southern California was held on February 18, 2020 at 11:08 AM at the District Office, 4040 Paramount Boulevard, Lakewood, California 90712. Committee Chair Robert Katherman called the meeting to order and presided thereafter.

FISCAL IMPACT

None

STAFF RECOMMENDATION

The Water Resources Committee approves the minutes as submitted.
A meeting of the Water Resources Committee of the Board of Directors of the Water Replenishment District of Southern California was held on February 18, 2020 at 11:08 AM at the District Office, 4040 Paramount Boulevard, Lakewood, California 90712. Committee Chair Robert Katherman called the meeting to order and presided thereafter.

1. DETERMINATION OF A QUORUM
A quorum was present, which included:
Committee: Committee Chair Robert Katherman; Director John D.S. Allen
Staff: Robb Whitaker; Diane Gatza; Eric Owens; Angie Mancillas; Lyndsey Bloxom; Brian Partington; Lawrence Chiu; Benny Chong; Mat Kelliher; Dina Hidalgo; Brian Funo; Everett Ferguson; Tenisha Simeon
Public: None

2. PUBLIC COMMENT
Pursuant to Government Code Section 54954.3
None.

3. APPROVE THE MINUTES OF JANUARY 21, 2020
Staff Recommendation: The Water Resources Committee approve the minutes as submitted.

<table>
<thead>
<tr>
<th>First:</th>
<th>Allen</th>
</tr>
</thead>
<tbody>
<tr>
<td>Second:</td>
<td>Katherman</td>
</tr>
<tr>
<td>Discussion:</td>
<td>None</td>
</tr>
<tr>
<td>Vote:</td>
<td>Katherman, Yes; Allen, Yes</td>
</tr>
<tr>
<td>Result:</td>
<td>ITEM 3 PASSED</td>
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</tbody>
</table>

4. OPERATIONS UPDATE
Staff Recommendation: The Water Resources Committee receive and file the report.

Senior Hydrogeologist Everett Ferguson opened discussion for the operations update and presented on the Torrance Desalter.

Manager of Engineering Eric Owens provided elaboration on the Torrance Desalter, the Leo J. Vander Lans Facility, and the Albert Robles Center. Comments followed.

No action was taken.
5. GROUNDWATER BASIN UPDATE

   **Staff Recommendation:** The Water Resources Committee receive and file the report.

   Mr. Ferguson summed up the latest groundwater conditions for the Committee.

   No action was taken.

6. AUTHORIZATION TO RELEASE A REQUEST FOR BIDS FOR DRILLING SERVICES ASSOCIATED WITH THE NATIONAL GROUNDWATER MONITORING NETWORK (NGWMN)

   **Staff Recommendation:** The Water Resources Committee recommends that the Board of Directors approve the preparation and issuance of a Request for Bids, subject to approval as to form by District Counsel, for drilling services associated with the National Groundwater Monitoring Network Project.

   Manager of Hydrogeology Brian Partington summarized the item. Discussion followed.

   First: Allen
   Second: Katherman
   Discussion: None
   Vote: Katherman, Yes; Allen, Yes
   Result: ITEM 6 PASSED

   This item will go to the Finance/Audit Committee meeting scheduled for February 24, 2020.

7. APPROVE ENTERING INTO AN AGREEMENT TO JOINTLY FUND A THIRD-PARTY REVIEW OF GROUNDWATER MODELING ALONG THE COUNTY LINE BETWEEN WRD AND OCWD

   **Staff Recommendation:** The Water Resources Committee recommends that the Board of Directors enter into an agreement, subject to approval as to form by District Counsel, with Orange County Water District to jointly fund a third-party review of groundwater modeling along the county line for an amount of WRD’s share not to exceed $100,000.

   Mr. Partington provided the main points of the agreement. Discussion followed.

   First: Allen
   Second: Katherman
   Discussion: None
   Vote: Katherman, Yes; Allen, Yes
   Result: ITEM 7 PASSED

   This will be a regular calendar item on the Board of Directors meeting agenda.
8. RECEIVE AND FILE THE 2020 ENGINEERING SURVEY AND REPORT AND ADOPT RESOLUTION NO. 20-1127  
*Staff Recommendation:* The Water Resources Committee recommends that the Board of Directors receive and file the 2020 Engineering Survey and Report and adopt Resolution No. 20-1127.

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<thead>
<tr>
<th>First:</th>
<th>Allen</th>
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<tbody>
<tr>
<td>Second:</td>
<td>Katherman</td>
</tr>
<tr>
<td>Discussion:</td>
<td>None</td>
</tr>
<tr>
<td>Vote:</td>
<td>Katherman, Yes; Allen, Yes</td>
</tr>
<tr>
<td>Result:</td>
<td>ITEM 8 PASSED</td>
</tr>
</tbody>
</table>

This will be a regular calendar item on the Board of Directors meeting agenda.

9. RECEIVE AND FILE THE REGIONAL GROUNDWATER MONITORING REPORT FOR WATER YEAR 2018-19  
*Staff Recommendation:* The Water Resources Committee recommends the Board of Directors receive and file the 2018-19 Regional Groundwater Monitoring Report.

Mr. Partington provided a presentation.

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<th>First:</th>
<th>Allen</th>
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<tbody>
<tr>
<td>Second:</td>
<td>Katherman</td>
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<tr>
<td>Discussion:</td>
<td>None</td>
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<tr>
<td>Vote:</td>
<td>Katherman, Yes; Allen, Yes</td>
</tr>
<tr>
<td>Result:</td>
<td>ITEM 9 PASSED</td>
</tr>
</tbody>
</table>

This will be a regular calendar item on the Board of Directors meeting agenda.

10. WATER RESOURCES PLANNING UPDATE  
*Staff Recommendation:* For discussion and possible action.

Water Resources Senior Analyst Lyndsey Bloxom reviewed grant funding of the Regional Brackish Water Reclamation Program.

Manager of Water Resources Diane Gatza followed-up with a PowerPoint presentation for the Committee. Discussion followed.

No action was taken.

11. DEPARTMENT REPORT  
*Staff Recommendation:* For discussion and possible action.

The District’s newest employee, Brian Funo, Accountant Technician was introduced to the Committee.
12. DIRECTORS' REPORTS, INQUIRIES, AND FOLLOW-UP OF DIRECTIONS TO STAFF
   None

13. ADJOURNMENT
   There being no further business to come before the Board, the meeting was adjourned at 12:23 PM.

__________________________
Chair

ATTEST:

__________________________
Member

Approved in minutes of:

__________________________
DATE: APRIL 21, 2020
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 and various multi-agency strategies in regards to all of the District’s current and planned operational facilities.

Terminal Island Water Reclamation Plant (TIWRP) / Dominguez Gap Barrier Project (DGBP) Update
Highlights from the TIWRP / DGBP include the following:

- LASAN is continuing to work with the County to maximize flows to the barrier, where current demand is 6.94 million gallons per day (MGD).
- TITP can deliver 5.4 MGD due to the barrier pressure issues. LASAN/LADWP is troubleshooting this issue. TITP operations staff will be working on membrane replacement from April 6 through April 25, 2020 and intermittent outages are expected during this time.
- WRD staff is continuing to lead bimonthly operations conference calls with LADWP and LASAN.
- WRD staff is engaged in ongoing discussions with LADWP regarding TITP online time and delivery rate and the two pending construction projects (2nd Gap Connection and Potable Backup System).

Torrance Desalter Update
Highlights from the Torrance Desalter include the following:

- Rehabilitation work on the City Yard Well was completed in late February. The issue reported last month affecting the variable frequency drive (VFD) which operates the well pump has been resolved.
• Production totaled approximately 152 acre-feet (AF); 49.4 million gallons) for the month of March (vs. 97 AF [31.6 million gallons] for February). The plant was offline a total of one (1) day during this period for cleaning of the RO membranes.
• At the request of the Torrance Water Department, WRD has temporarily postponed janitorial service, as the City is limiting site access to the most essential staff due to COVID-19.

Leo J. Vander Lans Facility (LVL) Update

Highlights from the LVL facility include the following:

• Activities have begun to transition operational duties from the Long Beach Water Department to PERC Water. Staff participated in a kick-off meeting in late March, where staff was introduced to the PERC Operations Team. The COVID-19 virus has provided a number of challenges and precautions that are needed to be employed, but all parties are working through and continuing to make progress.
• During the month of March 2020, 349.7 AF of water supplied the barrier – 300 AF from the LB07A connection and 49 AF from LVL. Current Alamitos barrier injection is approximately 3.94 MGD.

Albert Robles Center (ARC) Update

Highlights from the ARC facility include the following:

• During the month of March 2020, production totaled approximately 890.5 AF (290 million gallons) vs. 850 AF (277 million gallons) in February. Production values are as follows:
  o Annual target: 10,000 AF
  o Production to date: 2,621.8 AF
  o Balance: 7,378.2 AF
• Invoicing related to the District’s participation in the Metropolitan Water District Local Resource Program (LRP) began last month. Per the agreement, WRD is receiving a subsidy of $63/AF to off-set operational costs for water produced by the ARC AWTF for recharge.
• Operations (WRD) continues to work to address and support operations of the Admin/Learning Center (ALC). During the current COVID-19 environment, inspections of the facility are being conducted weekly, since limited staff are entering the site at this time.
  o All exhibits at the ALC have been secured. Water, power and air have been locked out.
FISCAL IMPACT
None

STAFF RECOMMENDATION
The Water Resources Committee receive and file the report.
DATE: APRIL 21, 2020
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 attached.

FISCAL IMPACT
None

STAFF RECOMMENDATION
The Water Resources Committee receive and file the report.
GROUNDWATER BASINS AT A GLANCE*

* - Preliminary numbers, subject to change.
SUMMARY

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

Precipitation (Oct. 1, 2019 – Mar. 31, 2020)

The WRD precipitation index reports that for the 2019-20 Water Year, there has been 11.05 inches of rainfall. The normal rainfall for this time period is 14.07 inches, so the District is 79% of normal. As of March 24, 2020, the U.S. Drought Monitor is reporting 75% of the State is abnormally dry, 40% under moderate drought and 1% under severe drought conditions.

Snowpack (Snow Water Content [SWE] as of March 26, 2020)

In 1929, the State established the California Cooperative Snow Surveys Program with the California Department of Water Resources as the coordinator. Today, over 50 state, national, and private agencies collaborate in collecting snow data from over 300 snow courses with more than 60 of the courses being the original courses established in the early 1900’s. The average snow course is 1,000 feet long and consist of about 10 sample points. Anywhere from two to six courses are measured per day depending on weather and access method.

The snow survey is completed using a snow sampling tube equipped with a cutter on the end that is driven through the snow measuring the depth and obtaining a snow core. The snow core is then weighed and the snow water content (or snow water equivalent) calculated. The surveys are completed throughout the winter by returning to the same sample points throughout the season to observe the changing conditions. From February through May the data is used by the State to forecast snow melt runoff. Many snow courses are only measured on or around April 1st, and since it is presumed that the snow accumulates up to April 1st and melts thereafter, April 1st is the benchmark for historic data comparisons.
Northern Sierra Nevada – 15.7 in., 54% of normal to date and 54% of April 1st average  
Central Sierra Nevada – 16.6 in., 56% of normal to date and 56% of April 1st average  
Southern Sierra Nevada – 11.0 in., 43% of normal to date and 43% of April 1st average  
Statewide Summary – 14.8 in., 52% of normal to date and 52% of April 1st average
Reservoirs (as of March 30, 2020)

For all 16 reservoirs reported monthly to the committee, water levels have increased in 13 reservoirs compared to levels recorded in the previous month and decreased in 3 reservoirs. The largest increase (0.14 million acre feet) occurred at Lake Mead. The smallest increase (<0.00 million acre feet) occurred at Don Pedro Reservoir, Lake McClure, Millerton Lake, and Diamond Valley Lake. The largest decrease (-0.15 million acre feet) occurred at Lake Powell. The smallest decrease (0.03 million acre feet) occurred at New Melones Reservoir.

These 16 reservoirs are at 55% capacity (39.48 million acre feet) which is up from the prior month (0.2 million acre feet State Water Project [SWP] and -0.01 million acre feet Colorado River Aqueduct [CRA]).

Charts illustrating Lake Shasta (SHA) and Lake Oroville (ORO) are currently filling.
Groundwater Levels (through March 26, 2020)

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

Central Basin Key Well Long Beach #6 and West Coast Basin Key Wells Lawndale #1 & Carson #1 are in a confined aquifer and do not respond readily to rainfall but instead to changes in pumping.

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.

<table>
<thead>
<tr>
<th>Well Name</th>
<th>Since Last Report</th>
<th>Since Same Time the Previous Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Central Basin Key Well 1601T</td>
<td>Increased 3.2 feet</td>
<td>Decreased 20.0 feet</td>
</tr>
<tr>
<td>Central Basin Key Well Long Beach #6_4</td>
<td>Increased 22.2 feet</td>
<td>Increased 66.3 feet</td>
</tr>
<tr>
<td>West Coast Basin Key Well Lawndale #1_4</td>
<td>Increased 2.1 feet</td>
<td>Increased 3.6 feet</td>
</tr>
<tr>
<td>West Coast Basin Key Well Carson #1_2</td>
<td>Decreased 0.8 foot</td>
<td>Decreased 2.9 feet</td>
</tr>
</tbody>
</table>

*Bold* indicates a change in direction (decreasing or increasing) since the last report.
Optimum and Minimum Groundwater Quantity

In response to a 2002 State audit of the District’s activities, the Board of Directors adopted an Optimum and Minimum Quantity for groundwater in the District to define an appropriate operating range that would sustain adjudicated pumping rights, leave room for future storage projects, and identify a lower limit. The amounts are based on the accumulated overdraft concept, which the District tracks year by year based on changes in groundwater storage.

After an extensive review of over 70 years of water level fluctuations and discussions with the Board and pumping community, Water Year 1999/2000 was recognized as a representative year for the Optimum Quantity, which equated to an accumulated overdraft of approximately 612,000 acre feet. The Minimum Quantity was defined as an accumulated overdraft of 900,000 acre feet, which allowed an operating range from 0 acre feet (minimum) to 288,000 acre feet (optimum). The Board also adopted a policy to make-up the groundwater deficit should the accumulated overdraft fall too far below the Optimum Quantity.

The Accumulated Overdraft as of March 26, 2020, has been estimated at 758,277 acre feet (subject to change), which is 141,723 acre feet above the Minimum Groundwater Quantity and 146,277 acre feet below the Optimum Quantity. The Basin is at 49% of Optimum Quantity which is up 4% from last month.
Montebello Forebay Spreading Grounds (July 2019 - February 2020)

The following Chart shows the preliminary spreading grounds replenishment water:

For the Fiscal Year 2019-20, no imported water purchases are anticipated.

Local water (stormwater plus dry weather urban runoff) is captured by the Los Angeles County Department of Public Works (LACDPW) at the spreading grounds for recharge. Local water amounts are determined as the sum of the total waters conserved at the spreading grounds less the imported and recycled water deliveries. For the first eight months of the 2019-20 Fiscal Year, approximately 13,376 acre feet of local water capture has been reported by the LACDPW.
Preliminary numbers for the first eight months of the 2019-20 Fiscal Year show that approximately 40,660 acre feet of recycled water has been recharged with 5,061 AF consisting of advanced treat water from the ARC AWTF. Presuming the advanced treated water as "Null Water" the 120-month running average of recycled water contribution in the Montebello Forebay is 38.9% and the regulatory maximum is 45%, with additional studies and monitoring being required once 40% is reached.

**Tertiary Recycle Water Permit Update**

Following extensive collaboration between the District and LACSD, the Workplan required by the SWRCB - Division of Drinking Water and LARWQCB regarding the use of tertiary treated recycled water at the Montebello Forebay Spreading Grounds was submitted on November 18, 2019.

Upon receipt of comments on the Workplan from the State of California, the District and LACSD will proceed with finalizing the preparation and submittal of the new Title 22 Engineering Report. In anticipation of receiving comments in late spring 2020, staff is continuing to work with the LACSD on developing the known components of the new Title 22 Engineering Report. A preliminary scoping meeting and a follow-up strategy meeting were held on November 26, 2019, and January 27, 2020, respectively. Staff is working collaboratively with the LACSD preparing draft sections of the engineering report.
Seawater Barrier Well Injection and Replenishment (July 2019 - February 2020)

The following Chart shows the barrier water injection:

Preliminary numbers for the first eight months of the 2019-20 Fiscal Year show that the West Coast Barrier has used 11,038 acre feet of the total 17,000 acre feet planned for injection, 65% of total for the Fiscal Year. The Dominguez Gap Barrier used 5,155 acre feet of the total 7,500 acre feet planned for injection, 69% of the total for the Fiscal Year. The Alamitos Barrier, on the WRD side, used 2,409 acre feet of the total 4,500 acre feet planned for injection, 54% of the total for the Fiscal Year.
Assessible Pumping (Fiscal Year July 2019 – February 2020)

Preliminary numbers for groundwater production in the District for the Fiscal Year 2019-20 (July 2019 – February 2020) indicate pumping in the Central Basin was up 1,175 acre feet from the same time of the previous fiscal year (1.0%) and the West Coast Basin pumping was 52 acre feet lower than the previous fiscal year (-0.3%). The total pumping is 136,979 acre feet compared to 135,857 acre feet during the same time the previous year for an increase of 1,122 acre feet, or 0.8%. The current pumping data do not include three Central Basin pumpers and two West Coast Basin pumpers who have not yet reported.
Preliminary numbers indicate 136,979 acre feet have been pumped this fiscal year and is 3.4% below the projected goal of 141,773 acre feet (or -4,794 acre feet). Monthly actual production versus 6-year average monthly production projections (FY 2014 through 2019) are included in the chart below.
For the Fiscal Year 2019-20 (July 2019 – February 2020), staff has tracked the production trends of the top five (5) producing pumpers and the bottom five (5) producing pumpers in each basin. These pumpers are identified in the following tables and are based on the change in volume (in acre feet) compared to the same time period for the previous Fiscal Year.

<table>
<thead>
<tr>
<th>Production Trends - Central Basin</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Top 5 Producing by Volume (AF)</strong></td>
</tr>
<tr>
<td>Long Beach, City of</td>
</tr>
<tr>
<td>Whittier, City of</td>
</tr>
<tr>
<td>Paramount, City of</td>
</tr>
<tr>
<td>Cerritos, City of</td>
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<tr>
<td>California Water Service Company (East LA)</td>
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<tr>
<td><strong>Bottom 5 Producing by Volume (AF)</strong></td>
</tr>
<tr>
<td>Lakewood, City of Water Department</td>
</tr>
<tr>
<td>Golden State Water Company</td>
</tr>
<tr>
<td>San Gabriel Valley Water Company</td>
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<tr>
<td>Bell Gardens, City of</td>
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<tr>
<td>California American Water Company</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Production Trends – West Coast Basin</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Top 5 Producing by Volume (AF)</strong></td>
</tr>
<tr>
<td>Inglewood, City of</td>
</tr>
<tr>
<td>Phillips 66 Company</td>
</tr>
<tr>
<td>Tesoro Refining &amp; Marketing Co., LLC</td>
</tr>
<tr>
<td>Rolling Hills Country Club</td>
</tr>
<tr>
<td>Roman Catholic Archbishop of Los Angeles</td>
</tr>
<tr>
<td><strong>Bottom 5 Producing by Volume (AF)</strong></td>
</tr>
<tr>
<td>Golden State Water Company</td>
</tr>
<tr>
<td>Lomita, City of</td>
</tr>
<tr>
<td>West Basin Brewer Desalter</td>
</tr>
<tr>
<td>California Water Service Co. (Domínguez)</td>
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<tr>
<td>California Water Service Co./Hawthorne Lease</td>
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</table>
MEMORANDUM
ITEM NO. 6

DATE: APRIL 21, 2020
TO: WATER RESOURCES COMMITTEE
FROM: ROBB WHITAKER, GENERAL MANAGER
SUBJECT: WATER RESOURCES PLANNING UPDATE

SUMMARY
WRD’s Water Resources department works with the Board of Directors to develop the District’s strategic goals and initiatives and provides future program planning to ensure the necessary programs and projects are in-place to meet these goals. Included below is a summary of the major planning efforts currently in-progress and recent developments within those efforts. A verbal update will be provided on each item.

Regional Brackish Water Reclamation Program
The Water Replenishment District of Southern California (WRD) is responsible for managing and replenishing both the West Coast and Central Basins. Within the West Coast Basin a significant brackish water plume (approx. 600,000 acre feet) has been trapped due to seawater intrusion and the implementation of the West Coast Seawater Intrusion Barrier. WRD has initiated a Regional Brackish Water Reclamation Program (Program) to evaluate the feasibility of remediating the plume, working in partnership with six additional stakeholders pump and wholesale potable water within the basin. A Feasibility Study was initiated as the first step to determining how to remediate this plume to allow for future groundwater use within the basin.

WRD/LADWP Joint Los Angeles Basin Master Plan
The Water Replenishment District (WRD) and Los Angeles Department of Water and Power (LADWP) have been working collaboratively to establish a partnership on several projects and programs with overlapping objectives. Both staffs have been working towards mutually beneficial goals of utilizing all recycled water in the Los Angeles Basin as well as recharging and utilizing storage available in the West and Central groundwater basins in a sustainable fashion. A Memorandum of Understanding (MOU) has been developed and approved by LADWP and WRD to work together on a joint master plan effort.
In February 2019, WRD and LADWP initiated the joint master plan effort to evaluate the available assets within the greater Los Angeles area within the following three categories:

1. Sustainable recycled water supplies available;
2. Locations, infrastructure and treatment to get new recycled water into and out of the ground; and
3. Locations, infrastructure and treatment to get new water out of the ground.

Los Angeles County Sanitation Districts Joint Outfall System Water Recycling Fund – Potential Recycled Water Projects

Wastewater (i.e. brine) generated by the District’s Albert Robles Center AWTF in Pico Rivera will be discharged to the existing sewer system, which is owned and operated by the County Sanitation Districts of Los Angeles County (LACSD). Based on the brine flows and water quality anticipated from the AWTF, LACSD has calculated the sewer connection fee to be $15,863,166.90. In December 2018, LACSD modified their Connection Fee Ordinance to create a Joint Outfall System Water Recycling Fund where the entire connection fee paid by WRD will be used for projects that improve quantity and/or quality of recycled water for the benefit of WRD. WRD and LACSD staff have begun initial planning efforts to evaluate potential projects that would satisfy this description and provide benefit to both agencies and the region.

MWD/LACSD Regional Recycled Water Program

The Metropolitan Water District of Southern California (MWD) and the Sanitation Districts of Los Angeles County (LACSD) are currently completing a demonstration plant at the LACSD Joint Water Pollution Control Plant (JWPCP) wastewater treatment facility in Carson to produce 500,000 gallons per day, or 560 acre-feet per year, of advanced treated recycled water. The facility will generate information needed for future design and construction of a full-scale recycled water plant producing as much as 150 million gallons per day, or 168,000 acre-feet per year. Since 2016, WRD and MWD have worked collaboratively to evaluate potential groundwater recharge and storage opportunities that will take advantage of this new source of recycled water. MWD’s project concepts currently include conveyance of water from Carson to the Montebello Forebay for injection or spreading, to the West Coast Basin as a potential replenishment source for extraction associated with WRD’s Regional Brackish Water Reclamation Program, to the Long Beach area for injection and storage, to oil refineries, or possibly to water treatment facilities as a new raw water augmentation source.

Los Angeles County Safe, Clean Water Program

In 2018, Los Angeles County residents voted to approve Measure W – a public funding measure to capture, treat, reuse, and infiltrate stormwater. The County’s implementation of Measure W is The Safe, Clean Water Program. The Program will generate
approximately $300 million per year from a special parcel tax of 2.5 cents per square foot of impermeable surface area on private property in the Los Angeles County Flood Control District. WRD has been appointed to serve as the Groundwater Management Agency representative for three steering committees: Lower Los Angeles River, Lower San Gabriel River, and the South Santa Monica Bay Watershed Area.

**WRD Per- and Polyfluoralkyl Substances (PFAS) Planning**

WRD staff have initiated an internal PFAS Working Group that includes representatives from the Executive Management team, as well as the Hydrogeology, Engineering, Water Resources Planning, and External Affairs departments. The intent of the Working Group is to determine impacts to the groundwater basins and the pumping community that are related to PFAS and to develop solutions that address technical issues, determine funding needs and sources, and provide outreach support.

**FISCAL IMPACT**

None

**STAFF RECOMMENDATION**

For discussion and possible action.