



AGENDA

18700 Ward St.
Fountain Valley, CA 92708
(714) 378-3200

REGULAR MEETING
GROUNDWATER REPLENISHMENT SYSTEM STEERING COMMITTEE
(A Committee of Orange County Water District
and Orange County Sanitation District Directors*)
18700 Ward Street, Fountain Valley
Monday, October 14, 2024 5:00 p.m.

* Orange County Water District Notice: The GWRS Steering Committee (SC) meeting is being noticed as a joint meeting with the Orange County Water District (OCWD) Board of Directors and Orange County Sanitation District (OC San) Board of Directors for the purpose of strict compliance with the Brown Act and it provides an opportunity for all Directors to hear presentations and participate in discussions. The SC has been delegated limited authority by the OCWD and OC San Boards of Directors. Agenda items requiring Board approval will be placed on future OCWD and/or OC San Board meeting Agendas. OCWD Directors receive no additional compensation or stipend as a result of simultaneously convening this meeting.

Computer Audio: Please click the link below to join the Zoom webinar:
<https://ocwd.zoom.us/j/85227343996>

Webinar ID: 852 2734 3996

Telephone Audio: (213) 338 8477

Teleconference Site:
10382 Bonnie Drive, Garden Grove
20 Civic Center, Santa Ana
19 Cannery, Buena Park
1502 North Broadway, Santa Ana
1454 Madison Street, Tustin

* Members of the public may attend and participate at all locations.

PLEDGE OF ALLEGIANCE

ROLL CALL

VISITOR PARTICIPATION

Time has been reserved at this point in the agenda for persons wishing to comment for up to three minutes to the Board of Directors on any item that is not listed on the agenda, but within the subject matter jurisdiction of the District. By law, the Board of Directors is prohibited from taking action on such public comments. As appropriate, matters raised in these public comments will be referred to District staff or placed on the agenda of an upcoming Board meeting.

At this time, members of the public may also offer public comment for up to three minutes on any item on the Consent Calendar. While members of the public may not remove an item from the Consent Calendar for separate discussion, a Director may do so at the request of a member of the public.

ITEMS RECEIVED TOO LATE TO BE AGENDIZED

RECOMMENDATION: Adopt resolution determining need to take immediate action on item(s) and that the need for action came to the attention of the District subsequent to the posting of the Agenda (requires two-thirds of the Board members present, or, if less than two-thirds of the members are present, a unanimous vote of those members present.)

CONSENT CALENDAR (ITEM NO. 1)

All matters on the Consent Calendar are to be approved by one motion, without separate discussion on these items, unless a Board member or District staff request that specific items be removed from the Consent Calendar for separate consideration.

1. MINUTES OF PREVIOUS MEETING

RECOMMENDATION: Approve Minutes of the July 8, 2024 GWRS Steering Committee meeting as presented

END OF CONSENT CALENDAR

INFORMATIONAL ITEMS

2. GWRS OPERATIONS UPDATE
3. GWRS THIRD QUARTER OUTREACH REPORT (JULY – SEPTEMBER 2024)

DIRECTORS' ANNOUNCEMENTS/REPORTS

GENERAL MANAGERS' REPORT

- Next GWRS Steering Committee Meeting – January 13, 2025

DETERMINATION OF ITEMS (IF ANY) TO BE AGENDIZED FOR FUTURE OCWD BOARD MEETING AND/OR OC SAN BOARD MEETING

ADJOURNMENT

2024 GWRS Steering Committee Members

OCWD Committee Members

Bruce Whitaker
Cathy Green
Van Tran ..

OCWD Alternates

Roger Yoh
Dina Nguyen
Steve Sheldon

OC San Committee Members

Chad Wanke
Ryan Gallagher
Jon Dumitru

OC San Alternates

Bob Ooten
Andrew Nguyen
Pat Burns

In accordance with the requirements of California Government Code Section 54954.2, this agenda has been posted for viewing at the guard shack entrance and in the main lobby of the Orange County Water District, 18700 Ward Street, Fountain Valley, CA not less than 72 hours prior to the meeting date and time above. All written materials relating to each agenda item are available for public inspection in the office of the District Secretary. Backup material for the Agenda is available at the District offices for public review and can be viewed online at the District's website: www.ocwd.com .

Pursuant to the Americans with Disabilities Act, persons with a disability who require a disability-related modification or accommodation in order to participate in a meeting, including auxiliary aids or services, may request such modification or accommodation from the District Secretary at (714) 378-3234, by email at cfuller@ocwd.com by fax at (714) 378-3373. Notification 24 hours prior to the meeting will enable District staff to make reasonable arrangements to assure accessibility to the meeting.

As a general rule, agenda reports or other written documentation has been prepared or organized with respect to each item of business listed on the agenda, and can be reviewed at www.ocwd.com. Copies of these materials and other disclosable public records distributed to all or a majority of the members of the Board of Directors in connection with an open session agenda item are also on file with and available for inspection at the Office of the District Secretary, 18700 Ward Street, Fountain Valley, California, during regular business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday. If such writings are distributed to members of the Board of Directors on the day of a Board meeting, the writings will be available at the entrance to the Board of Directors meeting room at the Orange County Water District office.

MINUTES OF THE MEETING
GROUNDWATER REPLENISHMENT SYSTEM STEERING COMMITTEE
Monday, July 8, 2024

OCWD Director Bruce Whitaker called the Groundwater Replenishment System Steering Committee meeting to order in the OCWD Boardroom. Public access was also provided via Zoom webinar. Following the Pledge of Allegiance to the flag, the Secretary called the roll and reported a quorum.

Committee Members

Bruce Whitaker
Chad Wanke
Cathy Green
Ryan Gallagher
Van Tran
Jon Dimitru

Alternates

Roger Yoh (absent)
Bob Ooten (absent)
Dina Nguyen (absent)
Andrew Nguyen
Steve Sheldon (absent)
Pat Burns

OCWD Directors Bilodeau and Weigand attended.

OCWD Staff	OC San Staff
John Kennedy, Mehul Patel, Gina Ayala, Christina Fuller	Rob Thompson, Jennifer Cabral

CONSENT CALENDAR

The Consent Calendar was approved upon motion by Director Wanke, seconded by Director Green and carried [6-0] as follows.

Yes – Whitaker, Wanke, Green, Gallagher, Tran, Dumitru

1. Minutes of Previous Meeting

The minutes of the GWRS Steering Committee meeting held April 8, 2024, are approved as presented.

INFORMATIONAL ITEMS

2. GWRS Operations Update

Executive Director Mehul Patel reported that the daily production for the quarter, April through June 2024, was 79 mgd. He advised that production was limited during this reporting period due to two major issues at OC San that reduced available flows to GWRS. He stated that the first issue was due to a planned valve repair project on the OC San Knott/Bushard flow diversion structure that required a portion of Plant No.1 flows to be reduced to 130 mgd. He noted that this work lasted for the last two weeks of April, limiting GWRS production to 95 mgd. Mr. Patel reported that the second and more impactful OC San issue was a major leak and subsequent pump failures to the Plant No. 1 Sunflower trunkline and pump station. He stated that this resulted in a reduction of Plant No. 1 flows and an increase to Plant No. 2 flows. He reported that OC San staff indicates that a full resolution of the Sunflower pump station issue could be months out thus limiting GWRS production to 85 mgd for an extended period of time. He advised that this lack of flow from OC San due to the Sunflower trunkline and pump station issues not only reduced fiscal year 2023-2024 GWRS production but will impact next

fiscal year's production which starts on July 1, 2024. Mr. Patel noted it is hoped that normal production can resume by the end of summer as the Plant 1 issues are resolved.

3. GWRS Second Quarter Outreach Report (April - June)

Director of Public Affairs Gina Ayala provided an overview of outreach for the second quarter of 2024.

Second Quarter Highlights:

- 43 GWRS tours conducted accounting for 695 guests
- 7 Speakers bureau engagements
- OC San held an Open House on June 8 with 1,300 attendees
- 2 awards were received: EPIC Award and Best in Show Award

ADJOURNMENT

There being no further business to come before the Committee, the meeting was adjourned at 5:26 p.m.

OCWD Director Bruce Whitaker, Chair

AGENDA ITEM SUBMITTAL

Meeting Date: October 14, 2024

To: GWRS Steering Committee

From: John Kennedy/Rob Thompson

Staff Contact: M. Patel

Budgeted: N/A

Budgeted Amount: N/A

Cost Estimate: N/A

Funding Source: N/A

Program/Line Item No.: N/A

General Counsel Approval: N/A

Project Report Approved: N/A

CEQA Compliance: N/A

Subject: GWRS OPERATIONS UPDATE

SUMMARY

Operation of the Groundwater Replenishment System (GWRS) commenced on January 10, 2008. The GWRS operations update will be discussed at the Committee.

Attachment: GWRS Operations Update Presentation

RECOMMENDATION

Informational

DISCUSSION/ANALYSIS

Since startup in 2008, GWRS continues to produce water that meets regulatory requirements. The quality of the secondary effluent received from the Orange County Sanitation District (OC San) continues to meet all water quality requirements while operating in the nitrified/denitrified (NDN) mode. The GWRS Microfiltration (MF) and Reverse Osmosis (RO) treatment processes have benefited in overall operational improvements as a result of OC San's efforts to successfully maintain stable operation in the NDN mode.

On December 12, 2022, OC San Plant 2 water was introduced to GWRS for use in normal production for the first time. This marked a milestone in the GWRS Final Expansion construction project that now allows for functional use of the newly constructed facilities at OC San Plant 2. GWRS production was able to go above 100 million gallons per day (mgd) as of December 12, 2022 as a result of this milestone.

The average daily production for the quarter, July through September 2024 was 89 mgd. Production was limited during this reporting period of July to September 2024 due to a major treatment plant issue at OC San that reduced available flows to GWRS. The impactful OC San issue was a major leak and subsequent pump failures to the Plant No. 1 Sunflower trunkline and pump station. This resulted in a reduction of Plant No. 1 flows and an increase to Plant No. 2 flows. In addition, Plant No. 2 experienced failures of two "A" side primary clarifiers that are used to treat the non-reclaimable flows. The increase in flows to Plant No.2 along with the loss of two "A" side primary clarifiers required the headworks to be de-segregated

to accommodate the higher flows. This means Plant No. 2 flows are no longer available to GWRS until the headworks can be re-segregated to remove Santa Ana River Interceptor non-reclaimable flows.

This Sunflower trunkline and pump station issues at Plant No. 1 started on April 30, 2024 and initially limited GWRS production to 55 mgd until May 21, 2024. Then, on May 21, 2024 a partial resolution of the issue allowed for higher flows to Plant No.1 and an increase in GWRS production to 90 mgd. However, OC San staff indicate a full resolution of the Sunflower pump station issue will not be achieved until October 15, 2024 thus limiting GWRS production to 90 mgd for a total duration of ten months. This production rate is well below the 130 mgd capacity of the GWRS after the final expansion project completion. Operation at a reduced production flow of 90 mgd from the beginning of the current 2024-2025 fiscal year will result in OCWD not meeting the GWRS fiscal year production goal of 128,000 acre-feet (af).

The GWRS effluent production for the months of July through September 2024 is shown in the following tables:

GWRS EFFLUENT PRODUCTION (July - September 2024)

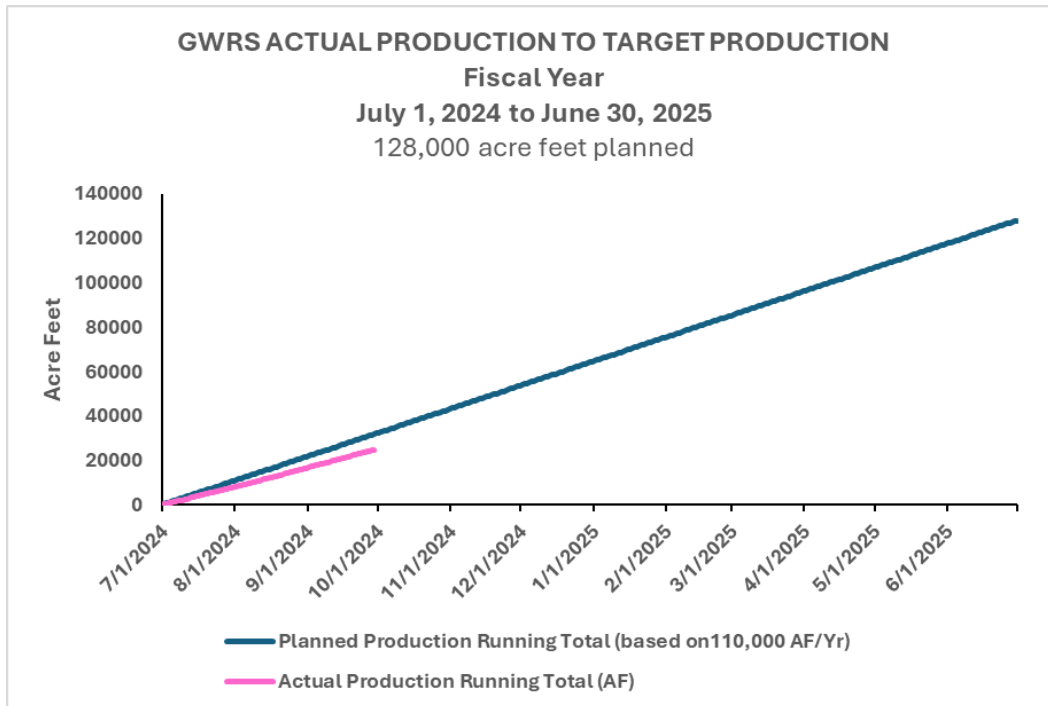
	July 2024 (million gallons)	July2024 (acre-feet)
Mira Loma, Kraemer/Miller Basin Recharge, Mid Basin Injection, Artic, and Canyon Power	2,062	6,329
Seawater Intrusion Barrier	536	1,646
Total	2,598	7,975

	August 2024 (million gallons)	August 2024 (acre-feet)
Mira Loma, Kraemer/Miller Basin, Recharge, Mid Basin Injection, Artic and Canyon Power	2,265	6,951
Seawater Intrusion Barrier	545	1,674
Total	2,810	8,625

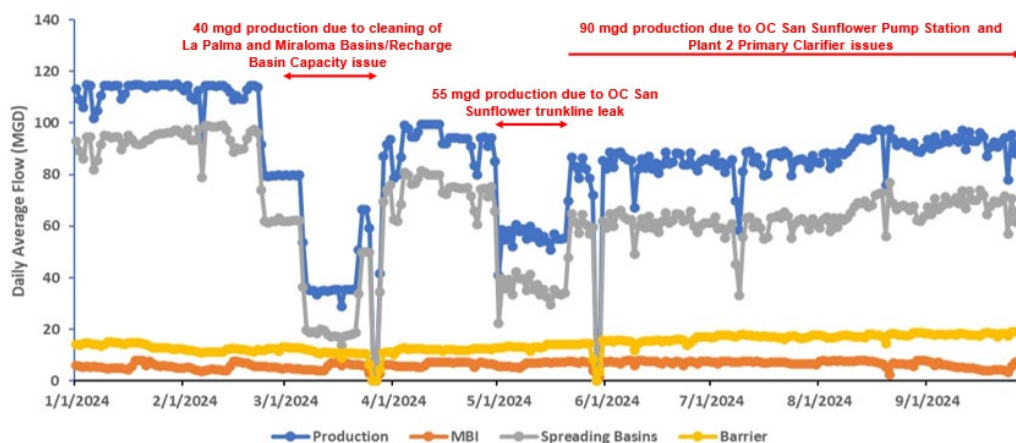
	September 2024 (million gallons)	September 2024 (acre-feet)
Mira Loma, Kraemer/Miller Basin Recharge, Mid Basin Injection, Artic and Canyon Power	2,225	6,828
Seawater Intrusion Barrier	546	1,677
Total	2,771	8,505

The first graph shows the actual fiscal year 2024/2025 production to date compared to the target production of 128,000 af. As of September 30, 2024, the GWRS Fiscal Year

2024-2025 production total is 25,138 af which is 7,125 af below the target production of 32,263 af. As explained earlier in this report, the production short fall in this reporting period was expected due to the Sunflower trunkline and pump station issues at OC San Plant No. 1. The second graph shows the GWRS production flows sent to recharge versus the seawater intrusion barrier for calendar year 2024 highlighting key events that have limited flows during that period.



GWRS Daily Average Production Flows 2024 (1/1/24 to 9/30/24)





GWRS Operations Update

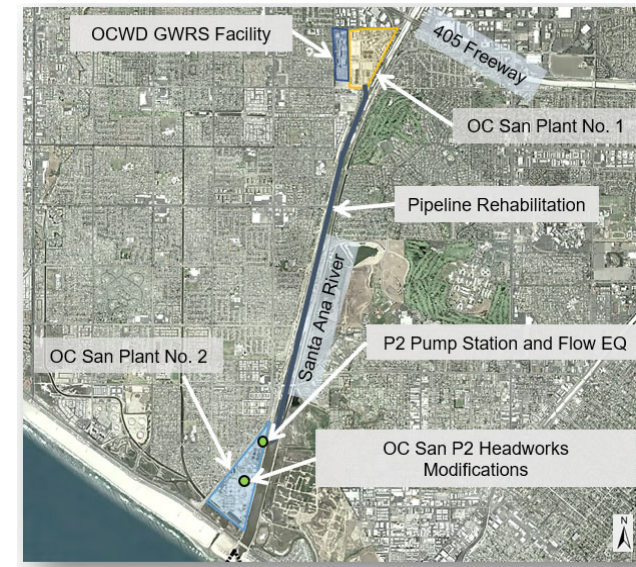
Mehul Patel, P.E., BCEE
Executive Director of Operations

October 14, 2024

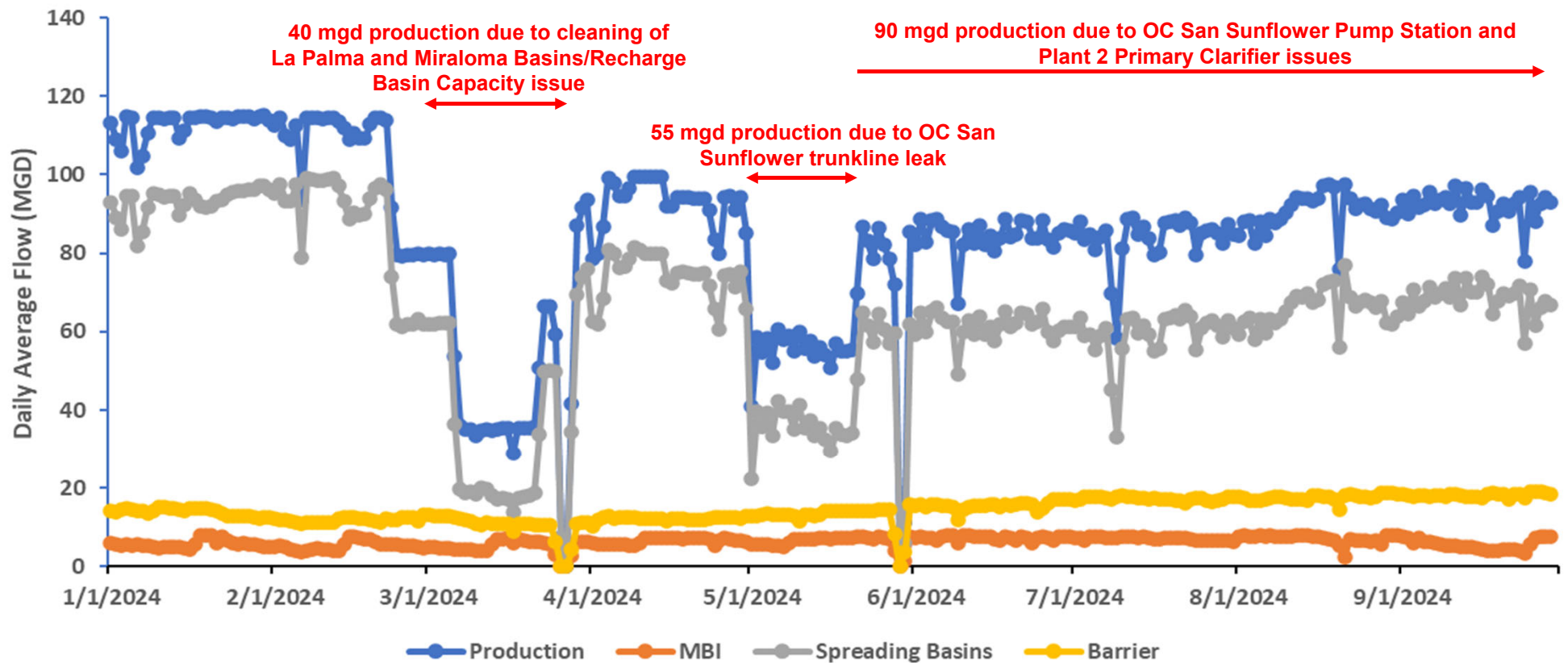


GWRS Production Limitations (Start of FY24-25)

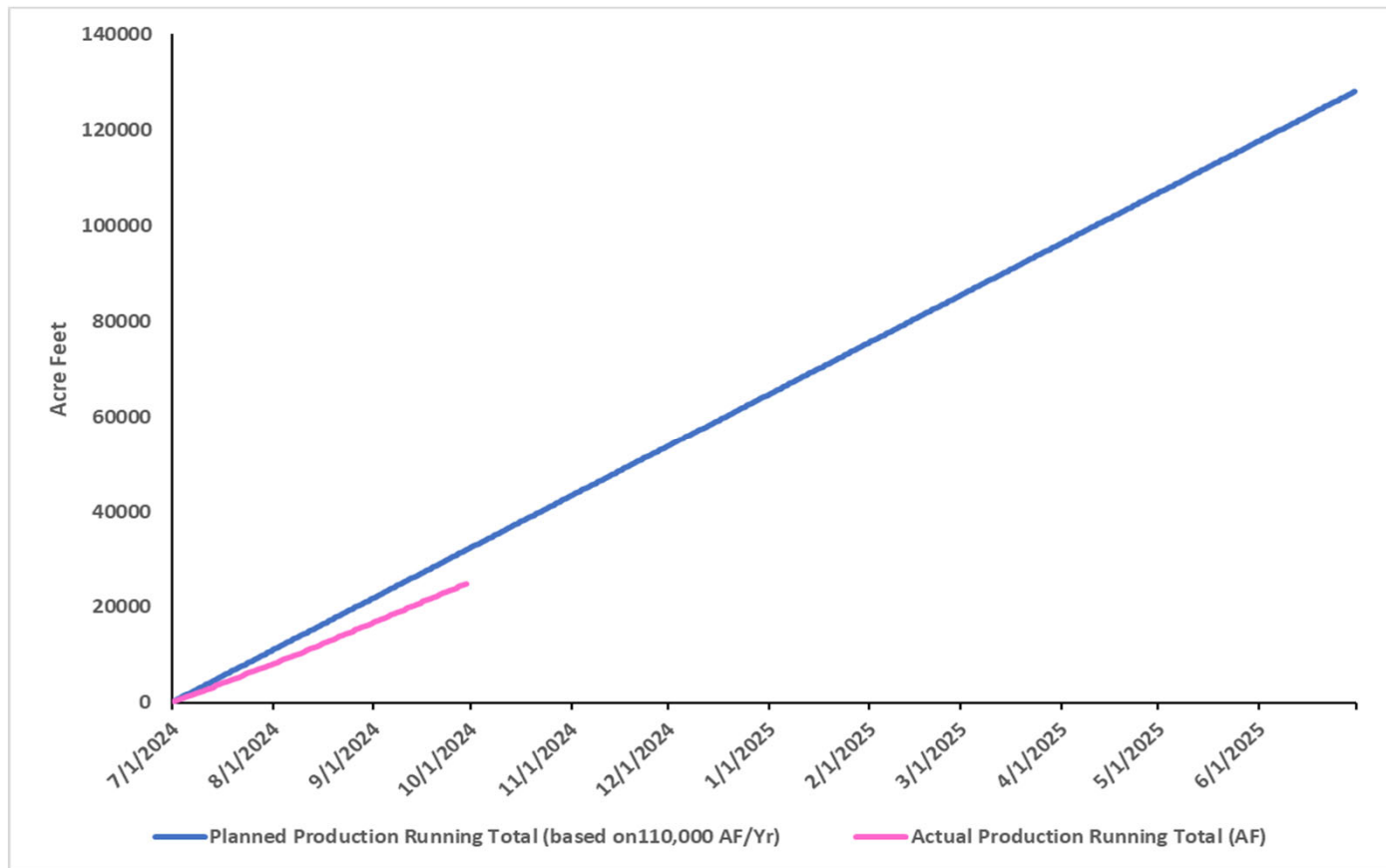
- FY 2024-2025 GWRS production goal is 128,000 acre feet
 - Production goal will not be met due to reduced flows from OC San
 - Production to date is 25,138 AF vs. planned value of 32,263 AF
- High groundwater levels limited injection flows to seawater intrusion barrier and mid-basin wells
- Scheduled MF membrane replacement in 8 of 49 MF Cells
- OC San Sunflower Pump Station issues limit production from April 30, 2024 to the present
 - No P2 flows and P1 flows reduced
 - **Production limited to 90 mgd from May 21, 2024 to present (OC San estimated date to restore higher flows to GWRS is October 15, 2024)**



GWRS Daily Average Production Flows 2024 (1/1/24 to 9/30/24)



FY24-25 Actual Versus Planned Production (128,000 AF Goal)



AGENDA ITEM SUBMITTAL

Meeting Date: October 14, 2024

To: GWRS Steering Committee

From: John Kennedy

Staff Contact: G. Ayala/C. Nettles

Budgeted: N/A

Budgeted Amount: N/A

Cost Estimate: N/A

Funding Source: N/A

Program/Line Item No.: N/A

General Counsel Approval: N/A

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A

SUBJECT: GWRS THIRD QUARTER OUTREACH REPORT (JULY-SEPT 2024)

SUMMARY

Outreach for the Groundwater Replenishment System (GWRS) continues with a major focus to build and maintain support for the GWRS, grow outreach programs and field media interest and coverage.

Attachment: 2024 third quarter news clip report

RECOMMENDATION

Informational

DISCUSSION/ANALYSIS

GWRS Tours

There were 27 GWRS tours during the third quarter of 2024. The tours accounted for approximately 384 guests. The following is a list of groups, companies, schools, and organizations who participated in the tours:

Third quarter tours:

- July 2 – Los Angeles Department of Water and Power
- July 5 – Virtual Public Tour
- July 15 – Orange County Environmental Justice
- July 17 – Three Valleys Municipal Water District
- July 19 – In-Person Public
- July 23 – Cal State University of Long Beach Nursing
- July 19 – University of California Irvine, COSMOS program
- July 30 – Orange County Water Association
- July 31 – City of Santa Monica Water Department
- August 2 –Public Virtual Tour
- August 7 – Cal Environmental Labs
- August 13 – Orange County Grand Jury
- August 15 – Good Time Travel

- August 15 – Department of Drinking Water
- August 19 – Los Angeles Sanitation District
- August 29 – US Department of Energy
- August 30 – Korean Delegation
- September 3 – Japanese Delegation
- September 12 – Stanford University
- September 12 – City of Phoenix Water
- September 14 – Water Reuse Conference
- September 15 – Water Reuse Conference
- September 18 – Arizona Public Services
- September 18 – Valley Water
- September 25 – Meta Water
- September 27 – Hydronautics
- September 27 – OPIAC Hydrogeology Conference

There has been a steady increase in tours over the past couple of years with people coming back for in-person tours after the pandemic. The comparison of numbers over the past two fiscal years is:

- 2022-2023: 90 GWRS Tours and 1,342 Guests
- 2023-2024: 135 GWRS Tours and 2,541 Guests

Based on 2024-2025 numbers thus far, an increase this fiscal year is also expected.

The GWRS [on-demand technical virtual tour](#), in all forms, has been viewed more than 9,700 times. The [on-demand general virtual tour](#), in all forms, has been viewed more than 5,200 times.



Speakers Bureau

Below is a listing of the July, August and September speakers' bureau engagements that included a portion of the presentation about the GWRS.

- July 25 – OCWD Executive Director of Operations Mehul Patel spoke at the American Membrane Technology and the Southwest Membrane Operator Association's technical workshop about OCWD's early adoption of membrane technology
- August 1 – OCWD General Manager John Kennedy presented on the GWRS at the Newport Beach Chamber's WAKE UP! Newport event
- August 13 & 14 – OCWD Executive Director of Operations Mehul Patel participated in two panels at the International Water Association World Congress
- August 21 – OCWD General Manager John Kennedy provided a presentation on the OC Groundwater Basin and GWRS to the Rotary Club of Fullerton
- August 22 – OCWD General Manager John Kennedy was a panelist during Sustain SoCal's Water Solutions 9 conference
- September 5 – OCWD Executive Director of Water Quality and Technical Resources Jason Dadakis presented on water reuse in Orange County during an international seminar on safeguarding the planet's water supply
- September 11 – OCWD Research Director Megan Plumlee presented at the Blavatnik U.S.-Israel Scientific Forum on Alleviating Global Water Scarcity by Desalination and Water Reuse
- September 16 – OCWD Scientist Julio Polanco and Principal Regulatory Specialist Claire Johnson presented "Designing a Project Specific Virus Log Removal Study to Demonstrate Virus Removal during Soil Aquifer Treatment" during the WateReuse CA annual conference
- September 17 – OCWD Principal Scientist Jana Safarik presented "Use of Online TOC Analyzers for Real-Time Monitoring of Secondary Effluent that is Influent (Source) Water to Advanced Purification for Potable Reuse" at the WateReuse CA annual conference




Webinar


OCWD hosted the webinar “Squeezing the Last Drop: Using Enhanced-Recovery Reverse Osmosis to Improve Water Production”. Speakers included Han Gu, Ph.D., senior scientist/process specialist, Orange County Water District and Alex Waite, P.E., supervising civil engineer, City of Santa Monica. Approximately 80 people attended the live webinar on August 7 and 481 people watched the recording (as of October 8).

Utilization of High-recovery RO for Potable Reuse


- **Conventional RO** removes dissolved solids, macro-molecules, and pathogens, but **recovery is limited**
- RO generates large volumes of **concentrated waste stream**, making concentrate management a challenge
- Economically feasible **high-recovery RO** technologies, such as **CCRO**, **FO-RO** and **FRRO**, may make potable reuse a more viable option
- **CCRO** pilot tested at PUB (2012-17), PDMWD (2016-17) and LACSD (2015-18), recovery range from 90-96%
- Singapore PUB implemented **FRRO** at full-scale (2.8 mgd) in NEWater plant from 2017--22 (Recovery increased from 75% to 90%)
- Santa Monica recently began first municipal **FRRO** performance testing at full-scale facility



Singapore PUB – F



Full scale CCRO system



ORANGE COUNTY WATER DISTRICT
5

Media

There were 41 global news hits for the GWRS. This number reflects multiple hits of the same story. The total reach for the combined articles was 32.1 million. The news clip report is attached.

Electronic Publications:

- Staff wrote and distributed the July, August and September issues of Hydrospectives, OCWD's monthly e-newsletter, which mention or feature articles about the GWRS.
- Staff wrote and distributed the summer issue of OC San Connection, OC San's quarterly newsletter, which mentioned the GWRS.

Website

There were 3,752 views of the GWRS portion of OCWD's website. The top five web pages within the GWRS section of the website were: 1) GWRS, 2) about GWRS 3) in person small group/individual tours, 4) in person group tours, 5) OCWD-UCR collaborate on GWRS research.

Construction Outreach

Construction notifications were written and distributed for cleaning of GWRS seawater injection wells.

GWRS MEDIA CLIPS
July, August, September 2024

1	Date	Media Outlet	Title	Link	Country	Total Readership
2	10/7/2024	LAist	California's new water recycling rules turn wastewater to tapwater. What this means for you	https://laist.com/news/climate-environment/california-water-recycling-rules-socal	United States	958,663
3	10/7/2024	LAist	Water recycling	https://laist.com/brief/news/climate-environment/california-water-recycling-rules-socal	United States	958,663
4	9/17/2024	WorldCat	EPA Announces \$7.5 Billion in Loans Available	https://app2.cision.com/#/articles/54805659532	United States	3,372,474
5	9/16/2024	Water Finance & Management	EPA announces \$7.5 billion in loans available	https://waterfm.com/epa-announces-7-5-billion-in-loans-available/	United States	2,280
6	9/10/2024	WorldCat	U.S. Epa Announces \$7.5 Billion in Available Financing for Water Infrastructure Projects	https://app2.cision.com/#/articles/54747005805	United States	2,863,837
7	9/10/2024	gwf Wasser Abwasser	EPA announces USD 7.5 billion WIFIA available funding	https://gwf-wasser.de/news/epa-announces-usd-7-5-billion-wifia-available-funding/	Germany	1,596
8	9/10/2024	American Infrastructure	\$7.5 billion in Available Financing for Water Infrastructure Projects	https://www.americaninfrastructuremag.com/7-5-billion-in-available-financing-for-water-infrastructure-projects/	Colombia	176
9	9/9/2024	Conduit Street	EPA Opens \$7.5B in Water Infrastructure Financing	https://conduitstreet.mdcounties.org/2024/09/09/epa-opens-7-5b-in-water-infrastructure-financing/	United States	17,255
10	9/9/2024	smartwatermagazine.com	Biden-Harris administration unveils \$7.5 billion boost for water infrastructure projects	https://smartwatermagazine.com/news/us-epa/biden-harris-administration-unveils-75-billion-boost-water-infrastructure-projects	United States	51,708
11	9/9/2024	Water Online	Biden-Harris Administration Announces \$7.5B In Available Financing For Water Infrastructure Projects	https://www.wateronline.com/doc/biden-harris-administration-announces-available-financing-water-infrastructure-projects-0001	United States	25,433

GWRS MEDIA CLIPS
July, August, September 2024

1	Date	Media Outlet	Title	Link	Country	Total Readership
12	9/9/2024	Tenders Info	United States : Biden-Harris Administration Announces \$7.5 billion in Available Financing for Water Infrastructure Projects.	https://app2.cision.com/#/articles/54746149382	India	42,463
13	9/9/2024	WorldCat	United States : Biden-Harris Administration Announces \$7.5 billion in Available Financing for Water Infrastructure Projects.	https://app2.cision.com/#/articles/54744669244	United States	3,372,474
14	9/9/2024	WaterWorld	U.S. EPA announces \$7.5 billion in available financing for water infrastructure projects	https://www.waterworld.com/drinking-water-treatment/press-release/55138318/-us-epa-announces-75-billion-in-available-financing-for-water-infrastructure-projects	United States	46,038
15	9/7/2024	Targeted News Service	EPA: Biden-Harris Administration Announces \$7.5 Billion in Available Financing for Water Infrastructure Projects	https://app2.cision.com/#/articles/54728597428	United States	2,427
16	9/7/2024	JBK-Environmental	Biden-Harris Administration Announces \$7.5 billion in Available Financing for Water Infrastructure Projects	http://jbk-environmental.blogspot.com/2024/09/biden-harris-administration-announces_93.html	United States	628
17	9/6/2024	States News Service	BIDEN-HARRIS ADMINISTRATION ANNOUNCES \$7.5 BILLION IN AVAILABLE FINANCING FOR WATER INFRASTRUCTURE PROJECTS	https://app2.cision.com/#/articles/54721274688	Germany	15,667
18	9/6/2024	Impact News Service	Biden-Harris Administration Announces \$7.5 billion in Available Financing for Water Infrastructure Projects	https://app2.cision.com/#/articles/54725842521	United States	1,000

GWRS MEDIA CLIPS
July, August, September 2024

1	Date	Media Outlet	Title	Link	Country	Total Readership
19	9/6/2024	Contify Telecom News	Biden-Harris Administration Announces \$7.5 billion in Available Financing for Water Infrastructure Projects	https://app2.cision.com/#/articles/54726266254	India	7,643
20	9/6/2024	Federal Newswire	EPA announces \$7.5 billion financing for critical water infrastructure projects	https://thefederalnewswire.com/stories/664084630-epa-announces-7-5-billion-financing-for-critical-water-infrastructure-projects	United States	4,408
21	9/4/2024	Re:Wired	Water and Wastewater Reuse: Quenching Our Planet's Future	https://rewiredz.com/sustainability/water-and-wastewater-reuse-quenching-our-planets-future	United States	240
22	9/3/2024	Blogarama	Water and Wastewater Reuse: Quenching Our Planet's Future	https://www.blogarama.com/green-blogs/1421119-renewable-energy-sustainability-tech-innovation-blog/62456912-water-wastewater-reuse-quenching-planets-future	United States	28,912
23	9/3/2024	iVoox	John Kennedy - Recycling in Orange County - Water Leaders Pod	https://www.ivoox.com/john-kennedy-recycling-in-orange-county-audios-mp3_rf_133416057_1.html	Spain	1,315,251
24	8/19/2024	smartwatermagazine.com	Orange County Water District achieves record year of groundwater recharge	https://smartwatermagazine.com/news/orange-county-water-district/orange-county-water-district-achieves-record-year-groundwater	United States	51,708
25	8/6/2024	ACWA	OCWD Achieves Record Year of Groundwater Recharge	https://www.acwa.com/news/ocwd-achieves-record-year-of-groundwater-recharge/	United States	5,279
26	8/1/2024	The Epoch Times	Major American Cities Facing a 'Day Zero' Water Crisis, Experts Say	https://www.theepochtimes.com/article/major-american-cities-facing-a-day-zero-water-crisis-say-experts-5686104?cmt=1	United States	7,121,270
27	7/26/2024	René Guiart, La lettre de la tribu.	Holm.Wastewater...	https://reneguiart.blogspot.com/2024/07/ninterroge-les-compagnies-privees-de.html	New Caledonia	765
28	7/26/2024	FREEDOM BUNKER	Major American Cities Facing 'Day Zero Water' Crisis, Say Experts – FREEDOMBUNKER	https://freedombunker.com/2024/07/25/major-american-cities-facing-day-zero-water-crisis-say-experts/	United States	1,866

GWRS MEDIA CLIPS
July, August, September 2024

1	Date	Media Outlet	Title	Link	Country	Total Readership
29	7/26/2024	Before It's News	Major American Cities Facing 'Day Zero Water' Crisis, Say Experts	https://beforeitsnews.com/tea-party/2024/07/major-american-cities-facing-day-zero-water-crisis-say-experts-2828568.html	United States	414,051
30	7/26/2024	entrepreneur.ca	Major American Cities Facing 'Day Zero Water' Crisis, Say Experts	https://entrepreneur.ca/2024/07/26/major-american-cities-facing-day-zero-water-crisis-say-experts	Canada	905
31	7/26/2024	Zero Hedge	Major American Cities Facing 'Day Zero Water' Crisis, Say Experts	https://www.zerohedge.com/commodities/major-american-cities-facing-day-zero-water-crisis-say-experts	United States	2,154,910
32	7/26/2024	nemosnewsnetwork.com	Major American Cities Facing 'Day Zero Water' Crisis, Say Experts	https://nemosnewsnetwork.com/major-american-cities-facing-day-zero-water-crisis-say-experts	United States	8,041
33	7/25/2024	Ussanews	Major American Cities Facing 'Day Zero Water' Crisis, Say Experts	https://ussanews.com/2024/07/25/major-american-cities-facing-day-zero-water-crisis-say-experts-2/	United States	11,562
34	7/20/2024	Re:Wired	7 Innovative Water Reuse Strategies: Revolutionizing Water Reclamation for a Sustainable Future	https://rewiredz.com/tech-and-innovation/water-and-wastewater-treatment/water-reclamation-and-water-reuse	United States	717
35	7/19/2024	Blogarama	7 Innovative Water Reuse Strategies: Revolutionizing Water Reclamation for a Sustainable Future	https://www.blogarama.com/green-blogs/1421119-renewable-energy-sustainability-tech-innovation-blog/59732094-innovative-water-reuse-strategies-revolutionizing-reclamation-for-sustainable-future	United States	52,283
36	7/18/2024	WTKR-NFK (CBS)	Coast Live	https://app2.cision.com/#!/articles/150001924864850	United States	9,585
37	7/16/2024	www.bv.com	Coastal California City Proactively Addresses Aging Infrastructure with Advanced Water Reclamation Facility	https://www.bv.com/projects/coastal-california-city-proactively-addresses-aging-infrastructure-with-advanced-water-reclamation-facility	United States	65,048

GWRS MEDIA CLIPS
July, August, September 2024

1	Date	Media Outlet	Title	Link	Country	Total Readership
38	7/11/2024	The Epoch Times	US Increases Scrutiny Over Chinese Land Purchases Near Military Bases	https://www.theepochtimes.com/article/us-states-increase-scrutiny-over-chinese-land-purchases-near-military-bases-5679619?cmt=1	United States	8,973,754
39	7/11/2024	Environmental XPRT	Innovation In Action: Isle North America Recognizes Water Industry Trailblazers At National Gathering	https://www.environmental-expert.com/news/innovation-in-action-isle-north-america-recognizes-water-industry-trailblazers-at-national-gathering-1150683	Spain	96,823
40	7/7/2024	FreeREAD	U.S. Increases Scrutiny Over Chinese Land Purchases Near Military Bases	https://freeread.causeaction.com/2024/07/07/u-s-increases-scrutiny-over-chinese-land-purchases-near-military-bases/	United States	9,073
41	7/6/2024	ntdca.com	US Increases Scrutiny Over Chinese Land Purchases Near Military Bases	https://ntdca.com/us-increases-scrutiny-over-chinese-land-purchases-near-military-bases	United States	703
				Total Readership		32,067,579