

**AGENDA
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, January 8, 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: Join the Zoom Webinar by clicking on the following link:

<https://ocwd.zoom.us/j/85227343996>

Webinar ID: 852 2734 3996

Telephone Audio: (213) 338 8477

Teleconference Sites:

19 Cannery Way, Buena Park
8856 Citrus Avenue, Westminster

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

PLEDGE OF ALLEGIANCE

ROLL CALL

ANNUAL REORGANIZATION OF COMMITTEE OFFICERS

- Election of Chairman (OCWD)
- Election of Vice Chair (OC SAN)

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.

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 October 9, 2023 GWRS Steering Committee meeting as presented

END OF CONSENT CALENDAR

INFORMATIONAL ITEMS

2. GWRS OPERATIONS UPDATE
3. ORANGE COUNTY SANITATION DISTRICT PLANT NO. 2 SALINITY INVESTIGATION UPDATE
4. GWRS FOURTH QUARTER OUTREACH REPORT (OCTOBER- DECEMBER)

DIRECTORS' ANNOUNCEMENTS/REPORTS

GENERAL MANAGERS' REPORT

- Next GWRS Steering Committee Meeting – April 8, 2024

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

Cathy Green
Vacant
Van Tran

OCWD Alternates

Roger Yoh
Dina Nguyen
Steve Sheldon

OC San Committee Members

Chad Wanke
Ryan Gallagher
David Shawver

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) 378-3233, by email at jdurant@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, October 9, 2023**

OC San Director Wanke 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

Chad Wanke
Cathy Green
Ryan Gallagher
Kelly Rowe
David Shawver
Van Tran

Alternates

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

OCWD Directors Bilodeau and Whitaker were also in attendance.

OCWD Staff	OC SAN Staff
Mike Markus, Mehul Patel, Gina Ayala, Leticia Villarreal	Robert Thompson, Jennifer Cabral

CONSENT CALENDAR

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

Yes – Wanke, Green, Gallagher, Rowe, Shawver, Tran

1. Minutes of Previous Meeting

The minutes of the GWRS Steering Committee meeting held July 10, 2023, are approved as presented.

MATTERS FOR CONSIDERATION

2. Consideration to Change GWRS Steering Committee Meetings from Quarterly to Semi Annually

Executive Director of Operations Mehul Patel shared that the GWRS Steering committee was formed as part of a joint operating agreement between OC San and OCWD. He pointed out that one of the requirements for the water district is to present the operating and maintenance budget for GWRS to show OC San that OCWD is investing properly in the system. He stated this typically occurs in April of each year. He suggested April remain as one of the months if the committee should decide to move forward with changing the meeting schedule.

Upon motion by Director Wanke, seconded by Director Shawver, the motion to change GWRS Steering Committee Meetings from Quarterly to Semi Annually failed on a 4-2 vote:

Ayes: Wanke, Gallagher, Shawver, Tran

Nos: Green, Rowe

INFORMATIONAL ITEMS

3. GWRS Operations Update

Executive Director of Operations/GWRS Mehul Patel reported that the production goal for this year was 134,000 AF based upon the completion of the final expansion prior to the start of the fiscal year which started July 1st. He stated production to date is 28,041 AF and if averaged 134,000 AF over the course of the fiscal year they should be closer to 33,775 AF thus resulting in a shortfall of about 5,700 AF. He noted that construction at Plant 2 lasted from August 7th to October 3rd which did not allow for taking of plant water during that time resulting an average of 95 MGD during that period. He stated production was back to averaging 115 - 120 MGD once construction was completed in October. He anticipates production to be back up and close to production goal by the next update.

4. OC San Plant No. 2 Salinity Investigation Update

General Manager of OC San Rob Thompson provided an update on Plant 2 salinity issues. He stated that seawater intrusion has been found in the collection system and advised that they have been looking into what could be the cause of the problem. He stated it's clear it's infiltration; most likely cracks in lines, across the sandy inland areas and a relationship was found between the tides and salt level in the sewer lines. Mr. Thompson reported that the effort is being made towards finding the source of contamination. He stated they have identified a cost-effective way to find this answer with a handheld instrument that does not require lab studies. He noted that updates on this issue will continue as the investigation and repairs progress.

5. GWRS Third Quarter Outreach Report (July – September)

Director of Public Affairs Gina Ayala reported that for 2023, OCWD and OC San worked jointly to apply for awards to commemorate the GWRS expansion; and to date 13 rewards have been received. She highlighted that OCWD continues to give tours to the community, educational institutes, water industry and international visitors. She advised that third-quarter tours totaled 25 with approximately 300 guests. She noted OCWD held 7 speakers bureau engagements and had a total of 71 global news hits for the GWRS. She reported that OCWD was approached by Public Cable Authority to do a one-minute public service announcement about the GWRS to the cities of Fountain Valley, Stanton and Westminster.

ADJOURNMENT

There being no further business to come before the Committee, the meeting was adjourned at 5:54 p.m.

OC San Director Chad Wanke, Chair

AGENDA ITEM SUBMITTAL

Meeting Date: January 8, 2024
To: GWRS Steering Committee
From: Mike Markus/R. 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.

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.

The average daily production for the quarter, October through December 2023 was 113 mgd. 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 mgd as of December 12, 2022 as a result of this milestone. There are still mechanical issues and punch list items being worked on with the GWRS Final Expansion contractor. Production was partially limited during this reporting period of October to December 2023 due to construction activity by OC San at their Plant No. 2 facility and limited seawater intrusion and mid basin injection demand due to high groundwater levels.

The average production for the current reporting period (October to December 2023) was lower than normal due two separate planned GWRS outages required for the final expansion Division of Drinking Water revised permit conditions. The new permit required and official site inspection visit by DDW on November 13. Part of the inspection process was to show DDW staff how various plant process alarms are triggered based upon online water quality analyzer readings. During

the November 13 visit DDW staff required OCWD to trigger a GWRS AWP plant outage based upon simulated online analyzer values not falling with normal ranges. The GWRS process control system is designed with a series of alarms that trigger operator action in the event certain online water quality analyzer falls out of normally expected ranges. A small portion of those alarm setpoints include an automatic full plant outage if values remain out of normal range beyond a preset delay period. In anticipation of this half day outage the production was lowered to 55 mgd the day prior to the visit to limit the hydraulic impact on OC San when the planned outage was triggered. In addition, a test outage of the GWRS facility was initiated on November 8 to test the auto shutdown capability. As mentioned in the previous third quarter update a project to rehabilitate primary clarifiers at OC San Plant No. 2 that required the reclaimable and non-reclaimable Santa Ana River Interceptor (SARI) flows to be co-mingled occurred from August 7 to October 3. The GWRS operating permit does not allow for Plant No. 2 flows to be used if SARI flows are included. This project resulted in the loss of Plant No. 2 flows to GWRS from August 7 to October 3. During this period GWRS production was limited to 95 mgd on average. This impacted the first two days (October 1-2) of the fourth quarter reporting period summarized in this report,

The GWRS effluent production for the months of October through December 2023 is shown in the following tables:

**GWRS EFFLUENT PRODUCTION
(October - December 2023)**

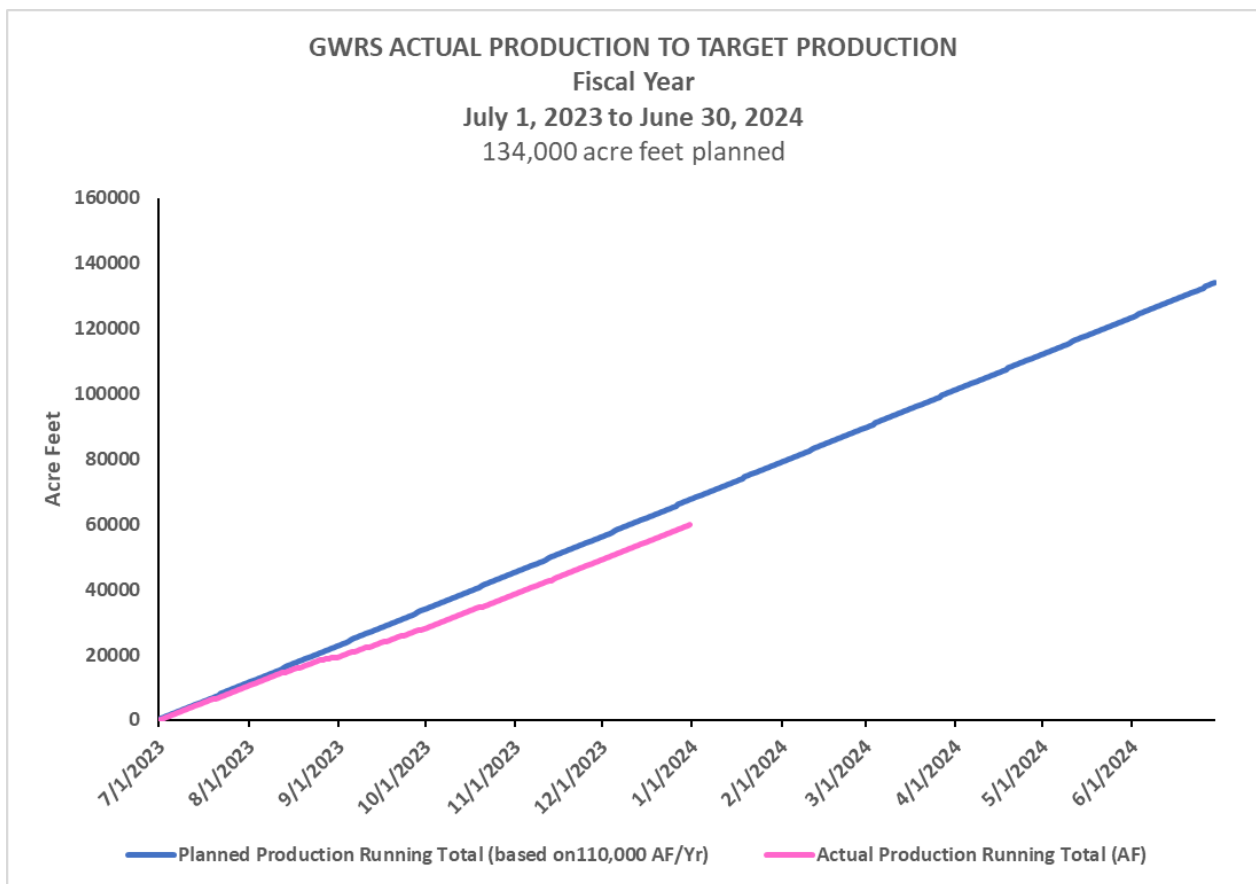
	October 2023 (million gallons)	October 2023 (acre feet)
Mira Loma, Kraemer/Miller Basin Recharge, Mid Basin Injection, Artic, and Canyon Power	2,807	8,620
Seawater Intrusion Barrier	594	1,824
Total	3,401	10,444

	November 2023 (million gallons)	November 2023 (acre feet)
Mira Loma, Kraemer/Miller Basin, Recharge, Mid Basin Injection, Artic and Canyon Power	2,894	8,883
Seawater Intrusion Barrier	532	1,635
Total	3,426	10,518

	December 2023 (million gallons)	December 2023 (acre feet)
Mira Loma, Kraemer/Miller Basin Recharge, Mid Basin Injection, Artic and Canyon Power	3,071	9,428
Seawater Intrusion Barrier	461	1,415
Total	3,532	10,843

The following graph shows the actual fiscal year 2023/2024 production to date compared to the target production of 134,000 af. As of December 31, 2023, the GWRS Fiscal Year 2023-2024 production to date is 59,847 af which is 7,704 af below our target fiscal year production to date of 67,551 af.

The shortfall in expected production to date to meet the fiscal year goal of 134,000 af is due primarily to OC San construction project that limited feed water flows to the GWRS during the last reporting period. In addition high groundwater levels due to precipitation levels over the past year result in lower demand for seawater intrusion barrier injection and mid-basin well injection flows. It is anticipated that GWRS production will remain near current levels in the fourth quarter of 2023 when a project to replace RO membranes in 9 of the 27 RO units is expected to occur. This activity may limit production to the current 115 to 120 mgd average rates.



AGENDA ITEM SUBMITTAL

Meeting Date: January 8, 2024

To: GWRS Steering Committee

From: Mike Markus

Staff Contact: Rob Thompson/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

Engineers/Feasibility Report: N/A

CEQA Compliance: N/A

**Subject: ORANGE COUNTY SANITATION DISTRICT PLANT NO. 2 SALINITY
INTRUSION INVESTIGATION**

SUMMARY

The Orange County Water District (OCWD) has observed a higher than anticipated salinity level in the Orange County Sanitation District (OC San)-supplied secondary effluent from OC San's Plant No. 2 facility in Huntington Beach to the Groundwater Replenishment System (GWRS). Initial investigation in summer and fall 2023 identified coastal sewer collection system tributary to Plant No. 2 as likely sources, based on field sampling and analyses conducted by OC San. In December 2023, OC San, assisted by OCWD staff, continued its investigative effort and conducted extensive sampling within a 'high salinity zone' (HSZ) on Balboa Peninsula; results showed highly variable salinity within the HSZ with the most significant salinity being observed along the southern portion of the peninsula within the City's municipal sewer lines.

RECOMMENDATION

Informational.

BACKGROUND/ANALYSIS

On December 12, 2022, OC San Plant No. 2 effluent was introduced to GWRS for use in routine production for the first time. This marked a milestone in the GWRS Final Expansion (GWRSFE) construction project that now allows for functional use of the newly constructed facilities at OC San Plant No. 2. GWRS production was able to surpass 100 mgd upon reaching this milestone. In the course of operating the GWRS with the newly supplied flow from Plant No. 2, it was noted that the level of salinity (as measured by the concentration of Total Dissolved Solids, or TDS) and electrical conductivity (EC) exceeded the projected levels during the design of the GWRSFE.

These higher salinity levels lead to increased pressure requirements by the GWRS reverse osmosis system and could trigger higher sulfuric acid usage to maintain operational pH levels. OC San initiated field investigations to identify potential sources of elevated salinity and found the local sewers along the coastline to be the most probable sources of seawater infiltration. Local sewers are not owned or operated by OC San, but instead by local cities or sanitation districts.

Staff were requested to provide an update on the ongoing interagency efforts to investigate potential sources of this elevated salinity. Currently, OC San, OCWD, and City of Newport Beach staff are working together to identify significant areas of seawater infiltration and evaluate potential remedies. Staff will present an update on the current investigation and relevant findings to date. Investigatory efforts are ongoing. OC San will complete sampling within the Balboa Peninsula HSZ in early 2024 and forward the findings to OCWD and City of Newport Beach for further investigation.

PRIOR RELEVANT BOARD ACTION(S) N/A

AGENDA ITEM SUBMITTAL

Meeting Date: January 8, 2024

To: GWRS Steering Committee

From: Mike Markus

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 FOURTH QUARTER OUTREACH REPORT (OCT-DEC 2023)

SUMMARY

Outreach for the Orange County Water District (OCWD) and its programs and projects, including 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(s):

- 2023 fourth quarter news clip report

RECOMMENDATION

Informational

DISCUSSION/ANALYSIS

GWRS Tours

There were 30 GWRS tours during the fourth quarter of 2023. The tours accounted for approximately 600 guests, more than double the number of people last quarter. Following is a list of groups, companies, schools, and organizations that participated in the tours:

Fourth quarter tours:

1. October 3 – Pure Water Outreach Team
2. October 3 – Auto Desk
3. October 5 – International Business Institute – Jordanian Officials
4. October 6 – Virtual Public Tour
5. October 9 – International Business Institute – Egyptian Officials
6. October 10 – Cypress College
7. October 17 – OC Home School
8. October 17 – Yucaipa Water District
9. October 19 – Leadership Tomorrow
10. October 24 – Sage School
11. October 25 – Inland Empire Utilities Association
12. October 27 – Groundwater Adventure Tour

13. November 2 – Veolia
14. November 3 – Virtual Public Tour
15. November 7 – Orange County Environmental Health Commission
16. November 7 – Cal State University, Long Beach Engineering
17. November 8 – University of California, Irvine Engineering
18. November 8 – City of Morro Bay
19. November 9 – OCWD Employees
20. November 9 – City of Westminster
21. November 14 – Ardurra
22. November 16 – Cal State University, Long Beach
23. November 17 - Orange County Climate Change Association
24. November 20 – City of Huntington Beach Water Department Operations
25. November 30 – Santa Ana Valley High School
26. December 1 – Chapman University
27. December 4 – Edison High School, ASE Academy
28. December 6 – Ralston Intermediate School
29. December 12 – International Citizen Diplomacy of Los Angeles
30. December 14 – Ocean View High School

Scheduled first quarter tours:

- January 5 – Virtual Public Tour
- January 8 – South Korean Delegation
- January 11 – American Association of University Women
- January 16 – Dana Hills High School
- January 17 – NWRI Expert Panel
- January 17 – Brown & Caldwell, Boise Idaho Delegation
- January 18 – Pure Water San Diego
- January 19 – In-Person Public Tour
- January 19 – Engineers for a Sustainable World
- January 22 – Tetra Tech
- January 23 – Dana Hills High School
- January 24 – South Korean Delegation
- January 25 – Hana Resources
- January 30 – Dana Hills High School
- January 31 – Godinez High School
- February 2 - Godinez High School; Coastkeepers Club
- February 2 – Virtual Public Tour
- February 20 – OC Health Care Agency
- February 22 – ACWA JPIA
- March 1 – Virtual Public Tour
- March 13 – Beacon Park School (4 virtual tours)
- March 20 – Water Services Association of Australia
- March 22 – Cabrillo Academy

A 10-minute [on-demand general tour](#) and 30-minute [on-demand technical tour](#) are posted to the District's social media channels and have collectively been viewed approximately 12,800 times.

Speakers Bureau

Below is a listing of the October, November and December speakers' bureau engagements that included a portion of the presentation about the GWRS.

- October 2 – Executive Director of Operations Meहुल Patel participated on a panel titled “The Water Reuse Landscape Through the Eyes of Industry Leaders” at the Water Environment Federation Technical Exhibition and Conference (WEFTEC)
- October 10 – Director Roger Yoh provided an OCWD briefing to the city of Buena Park
- October 16 – Executive Director of Water Quality and Technical Resources Jason Dadakis spoke on the panel “Fifty Years of Research & Innovation Driving Potable Reuse Implementation in the United States” at the International Desalination Association’s Seville Summit on Water and Climate Change
- October 26 – Engineer Audrey Perry provided a GWRS presentation to the Water & Sewer Risk Management Pool (Washington State)
- November 3 – Chief Hydrogeologist Roy Herndon presented a virtual guest lecture on OCWD's basin management and seawater intrusion control program to the University of Edinburgh Environmental Engineering.
- November 6 and 7 – OCWD took part in multiple sessions and panels at the WaterReuse California Conference:
 - General Manager Mike Markus spoke on the panel “We're Now Entering the Climate Change Whiplash Portal - When and How Does WaterReuse Enter It and What Advice Does Its Grandfather Have?”
 - Executive Director of Operations Meहुल Patel spoke on the operations panel “Meeting the Challenges of DPR”
 - Executive Director of Operations Meहुल Patel presented “Lessons Learned, Recycling Every Last Drop - OCWD's GWRS Final Expansion”
 - Executive Director of Water Quality and Technical Resources Jason Dadakis moderated the panel “PFAS & Water Reuse: How Utilities & Regulators Are Managing the Rapid Transition from CEC to Regulated Legacy Contaminant”
 - Director of Research Megan Plumlee and Scientist Han Gu presented “Enhancing Potable Reuse Recovery with Flow-Reversal FO: Feasibility, Challenges, & Cost Analysis”
 - Director of Research Megan Plumlee and Principal Scientist Jana Safarik presented “Multi-Metals Continuous Water Analyzer Xact 920 to Monitor RO Performance in Potable Reuse”
 - Director of Public Affairs Gina Ayala spoke during the panel “The Revolutionary Impact of AI on Public Outreach”
- November 8 – Chief Hydrogeologist Roy Herndon presented during two sessions at the AWWA Water Quality and Technology Conference: “Orange County's Success

in Achieving Water Quality Objectives with Recycled Water” and a technical panel on the use of recycled water in managed aquifer recharge.

- November 10 - Director Roger Yoh provided a water supply and PFAS update to the city of Yorba Linda.
- December 5 – Director Roger Yoh provided a water supply and PFAS update to the city of Placentia
- December 12 and 20 - Director of Recharge and Wetland Operations Ben Smith provided an introduction to OCWD, water filtration and water quality to Walker High School

Media

There were 135 global news hits for the GWRS. This number reflects multiple hits of the same story. The total reach for the combined articles was 63.61 million. The news clip report is attached.

Electronic Publications and Videos:

- Staff wrote and distributed the October, November and December issues of Hydrospectives, OCWD’s monthly e-newsletter, which mention or feature articles about the GWRS.
- Staff wrote and distributed six press releases:
 - [Coalition of National Organizations Recognize Orange County Water District for Innovative Water Management and Reuse](#)
 - [Orange County Water District Operations Manager Recognized as Operator of the Year](#)
 - [Orange County Water District Receives Honors for Water Reuse Leadership](#)
 - [GWRS Wins National Award for Outstanding Water Supply Project](#)
 - [Orange County Sanitation District Recognized as Industry and Community Leaders in Solving Water Challenges](#)
 - [Orange County Sanitation District Recognized by WaterReuse California](#)
- Staff produced two videos:
 - [2023 Year in Review \(OCWD\)](#)
 - [2023 State of OC San Video](#)

Website

There were 3,473 views of the GWRS portion of OCWD’s website. The top three web pages within the GWRS section of the website were: 1) GWRS, 2) the process, 3) about GWRS.

Awards

The GWRS received seven awards during the fourth quarter.

- Utility of the Future Today in the water reuse category, awarded at WEFTEC

- The Project Excellence Award for the completion of the Groundwater Replenishment System, awarded at WEFTEC
- U.S. Water Prize for Outstanding Public Sector Organization by the U.S. Water Alliance
- Recycled Water Agency of the Year (Large) by WateReuse California
- Large Plant of the Year by the Southwest Membrane Operator Association
- Pubby Award for Water Project of the Year from Peninsula Publishing
- The GWRS was recognized as an outstanding groundwater supply project by the National Ground Water Association

In addition, OCWD staff received three awards:

- Mike Markus received the Harriet M. Wielder Water Leadership Award from the Southern California Water Coalition
- Mike Markus received the Lifetime Achievement Award from WateReuse California
- Derrick Mansell was named Outstanding Large Plant Operator of the Year by the Southwest Membrane Operator Association

Events

The Groundwater Adventure Tour returned after a four-year hiatus. Approximately 100 people attended on Friday, October 27. Attendees were provided tours of the GWRS, recharge basins and Santa Ana River, and Prado wetlands, as well as a presentation on water quality.

GWRS MEDIA CLIPS
OCTOBER 1 - DECEMBER 31, 2023

	Date	Media Outlet	Country	Title	Link	Total Readership
1	12/28/2023	Water Online	United States	Tackling The Challenges Of Desalination For Water Crisis Solutions	https://www.wateronline.com/doc/tackling-the-challenges-of-desalination-for-water-crisis-solutions-0001	33,452
2	12/27/2023	The Sun-Gazette	United States	California turns tide with waste-to-drinking water approach	https://thesungazette.com/article/news/2023/12/26/california-turns-tide-with-waste-to-drinking-water-approach/	22,828
3	12/21/2023	La Opinión	United States	California aprueba normas para tratar las aguas residuales y convertirlas en agua potable	https://laopinion.com/2023/12/20/california-aprueba-normas-para-tratar-las-aguas-residuales-y-convertirlas-en-agua-potable/	3,148,028
4	12/18/2023	Full Climate Change and Environment RSS Newsfeed	United States	Municipalities look to turn sewage into tap water	https://www.lakecountystar.com/news/article/municipalities-look-turn-sewage-tap-water-18561383.php	3,338
5	12/18/2023	Midland Daily News	United States	Municipalities look to turn sewage into tap water	https://app2.cision.com/#/articles/52621554287	149,244
6	12/17/2023	Hartford Courant	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.courant.com/2023/12/17/from-flush-to-faucet-more-places-look-to-turn-sewage-into-	1,118,866
7	12/17/2023	The Columbian	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.columbian.com/news/2023/dec/17/fr	716,979
8	12/17/2023	newswwc.com	United Kingdom	California prepares to transform sewage into pure drinking water under new rules - News WWC	https://newswwc.com/united-states/california-prepares-to-transform-sewage-into-pure-drinking-water-under-new-rules/	20,362
9	12/17/2023	Planet Circulate	India	From flush to faucet: More places look to turn sewage into tap water	https://planetcirculate.com/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	1,879
10	12/17/2023	USA News - Get to know USA stories in News words	Lithuania	California Prepares To Transform Sewage Into Drinking Water - USA News	https://usanewsu.com/california-prepares-to-transform-sewage-into-drinking-water/	717
11	12/17/2023	theashlandchronicle.com	United States	From Flush to Faucet: Turn Sewage into Tap Water: Ashland's Waste Water Treatment Plant Is	https://theashlandchronicle.com/from-flush-to-faucet-turn-sewage-into-tap-water-ashlands-waste-water-treatment-plant-is-almost-there/	4,898

GWRS MEDIA CLIPS
OCTOBER 1 - DECEMBER 31, 2023

	Date	Media Outlet	Country	Title	Link	Total Readership
12	12/16/2023	Louisiana Illuminator	United States	From flush to faucet: More places look to turn sewage into tap water - Louisiana Illuminator	https://lailluminator.com/2023/12/16/sewage-water/	148,559
13	12/16/2023	KTBS 3	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.ktbs.com/news/louisiana/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/article_170201e3-71a4-59b2-b640-	381,797
14	12/16/2023	In the News - Oregon Health & Sciences University	United States	From flush to faucet: More places look to turn sewage into tap water	https://oregoncapitalchronicle.com/2023/12/16/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	176,435
15	12/16/2023	Broomfield Enterprise Online	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.broomfieldenterprise.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-	11,184
16	12/16/2023	Macomb Daily	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.macombdaily.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-	168,154
17	12/16/2023	Ukiah Daily Journal	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.ukiahdailyjournal.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-	28,743
18	12/16/2023	Heritage News-Herald	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.thenewsherald.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-	117,873
19	12/16/2023	Estes Park Trail Gazette	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.eptail.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-	17,379
20	12/16/2023	Monterey Herald	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.montereyherald.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-	101,742
21	12/16/2023	Greeley Tribune	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.greeleytribune.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-	212,940
22	12/16/2023	Boston Herald	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.bostonherald.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-	1,153,752
23	12/16/2023	Tech Jaun	United States	More places look to turn sewage into tap water – Boulder Daily	https://techjaun.com/more-places-look-to-turn-sewage-into-tap-water-boulder-daily-camera/	20,189
24	12/16/2023	Akron News Reporter	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.akronnewsreporter.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-	1,340

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25	12/16/2023	Redlands Daily Facts	United States	National News From flush to faucet: More places look to turn sewage into tap water	https://www.redlandsdailyfacts.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	71,033
26	12/16/2023	The Trentonian	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.trentonian.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	86,896
27	12/16/2023	Dearborn Press & Guide	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.pressandguide.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	52,210
28	12/16/2023	Daily Camera	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.dailycamera.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	334,699
29	12/16/2023	Journal-Advocate	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.journal-advocate.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	29,870
30	12/16/2023	Troy Record	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.troyrecord.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	33,719
31	12/16/2023	Orlando Sentinel	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.orlandosentinel.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	1,752,871
32	12/16/2023	Capital Gazette	United States	From flush to faucet: More places look to turn sewage into tap water	http://www.capitalgazette.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	172,337
33	12/16/2023	Jaun News	Switzerland	More places look to turn sewage into tap water – Boston Herald	https://jaunnews.com/more-places-look-to-turn-sewage-into-tap-water-boston-herald/	10,865
34	12/16/2023	Lowell Sun	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.lowellsun.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	153,795
35	12/16/2023	Sentinel & Enterprise	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.sentinelandenterprise.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	75,086
36	12/16/2023	San Bernardino Sun	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.sbsun.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	205,402
37	12/16/2023	Red Bluff Daily News	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.redbluffdailynews.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	30,940
38	12/16/2023	Vacaville Reporter	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.thereporter.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	44,812

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39	12/16/2023	Paradise Post	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.paradisepost.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-	6,225
40	12/16/2023	Willits News	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.willitsnews.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-	6,014
41	12/16/2023	Los Angeles Daily News	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.dailynews.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-	548,334
42	12/16/2023	Daily Local News	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.dailylocal.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-	138,314
43	12/16/2023	The Morning Call	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.mcall.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-	679,967
44	12/16/2023	Loveland Herald Reporter	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.reporterherald.com/2023/12/15/fro	178,982
45	12/16/2023	San Gabriel Valley Tribune	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.sgvtribune.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-	126,836
46	12/16/2023	Pasadena Star-News	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.pasadenastarnews.com/2023/12/15/f	113,943
47	12/16/2023	Daily Breeze	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.dailybreeze.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-	310,099
48	12/16/2023	Whittier Daily News	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.whittierdailynews.com/2023/12/15/fr	45,406
49	12/16/2023	South Platte Sentinel	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.southplattesentinel.com/2023/12/15/	7,055
50	12/16/2023	Voice News	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.voicenews.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-	22,821
51	12/16/2023	Fort Morgan Times	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.fortmorgantimes.com/2023/12/15/fr	23,045
52	12/16/2023	The Press-Enterprise	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.pressenterprise.com/2023/12/15/fro	283,295
53	12/16/2023	The Morning Journal	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.morningjournal.com/2023/12/15/fro	96,193

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	Date	Media Outlet	Country	Title	Link	Total Readership
54	12/16/2023	Woodland Daily Democrat	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.dailydemocrat.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	66,204
55	12/16/2023	The News-Herald	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.news-herald.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	247,989
56	12/16/2023	Canon City Daily Record	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.canoncitydailyrecord.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	36,683
57	12/16/2023	Nashoba Publishing	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.nashobavalleyvoice.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	4,041
58	12/16/2023	Oneida Daily Dispatch	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.oneidadispatch.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	25,958
59	12/16/2023	Daily Tribune	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.dailytribune.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	20,268
60	12/16/2023	The Mercury News	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.mercurynews.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	3,767,511
61	12/16/2023	Santa Cruz Sentinel	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.santacruzsentinel.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	135,154
62	12/16/2023	East Bay Times	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.eastbaytimes.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	530,529
63	12/16/2023	Advocate-News	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.advocate-news.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	8,114
64	12/16/2023	Burlington Record	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.burlington-record.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	1,032
65	12/16/2023	Marin Independent Journal	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.marinij.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	225,685
66	12/16/2023	The Orange County Register	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.ocregister.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	1,907,232
67	12/16/2023	www.oroillemr.com	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.oroillemr.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	8,544
68	12/16/2023	The Chico Enterprise-Record	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.chicoer.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	99,206

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69	12/16/2023	www.record-bee.com	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.record-bee.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-	17,926
70	12/16/2023	The Oakland Press	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.theoaklandpress.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-	264,249
71	12/16/2023	South Florida Sun Sentinel	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.sun-sentinel.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-	1,956,095
72	12/16/2023	Daily Bulletin	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.dailybulletin.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-	112,566
73	12/16/2023	The Lamar Ledger	United Kingdom	From flush to faucet: More places look to turn sewage into tap water	https://www.lamarledger.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-	8,279
74	12/16/2023	Mendocino Beacon	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.mendocinobeacon.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-	2,893
75	12/16/2023	Daily Press	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.dailypress.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-	281,123
76	12/16/2023	Press-Telegram	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.presstelegram.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-	150,313
77	12/16/2023	Reading Eagle	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.readingeagle.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-	186,838
78	12/16/2023	Julesburg Advocate	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.julesburgadvocate.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-	764
79	12/16/2023	Delaware County Daily Times	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.delcotimes.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-	278,307
80	12/16/2023	ACWA	United States	Orange County's GWRS Wins National Award for Outstanding Water Supply Project	https://www.acwa.com/news/orange-countys-gwrs-wins-national-award-for-outstanding-water-supply-project/	4,297
81	12/15/2023	Swifttelecast	India	More places look to turn sewage into tap water	https://swifttelecast.com/more-places-look-to-turn-sewage-into-tap-water/	2,914
82	12/15/2023	The Mercury	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.pottsmmerc.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-	112,081

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	Date	Media Outlet	Country	Title	Link	Total Readership
83	12/15/2023	Mount Pleasant Morning Sun	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.themorningsun.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	53,496
84	12/15/2023	Vallejo Times-Herald	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.timesheraldonline.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	35,412
85	12/15/2023	Daily Freeman	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.dailyfreeman.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	141,478
86	12/15/2023	Pioneer Press	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.twincities.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	1,034,706
87	12/15/2023	The Saratogian	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.saratogian.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	58,130
88	12/15/2023	Longmont Daily Times-Call	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.timescall.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	130,362
89	12/15/2023	Todays Chronic	India	More places look to turn sewage into tap water	https://todayschronic.com/more-places-look-to-turn-sewage-into-tap-water/	1,642
90	12/15/2023	Iglesia en Directo	Bangladesh	From flush to faucet: More places look to turn sewage into tap water	https://iglesiaendirecto.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	1,157
91	12/15/2023	Beritaja	Indonesia	From flush to faucet: More places look to turn sewage into tap water	https://en.beritaja.com/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water-beritaja/	8,156
92	12/15/2023	Jaun News Uk	United States	More places look to turn sewage into tap water – Daily Democrat	https://jaunnewsuk.com/more-places-look-to-turn-sewage-into-tap-water-daily-democrat/	7,219
93	12/15/2023	www.contracostatimes.com	United States	From flush to faucet: More places look to turn sewage into tap water	https://app2.cision.com/#/articles/52597320961	1,065
94	12/15/2023	Colorado Hometown Weekly	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.coloradahometownweekly.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	9,377
95	12/15/2023	Brush News Tribune	United States	More places look to turn sewage into tap water	https://www.brushnewstribune.com/2023/12/15/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/	1,399
96	12/15/2023	Nengyuancn		国际案例 污水变自来水？你敢喝么？全球最大再生水厂探秘！ - 能源网(www.nengyuancn.com)	https://www.nengyuancn.com/huanbao/3068.html	7,885

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97	12/14/2023	www.swoknews.com	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.swoknews.com/ap/national/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/article_64800828-3dc1-5363-87be-	41,924
98	12/14/2023	ArcaMax	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.arcamax.com/currentnews/newsheadlines/s-3018612	1,450,658
99	12/14/2023	Union-Bulletin News	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.union-bulletin.com/news/national/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-	76,614
100	12/14/2023	ArcaMax	United States	From flush to faucet: More places look to turn sewage into tap water Science & Technology News	http://www.arcamax.com/knowledge/scienceandtech/technews/s-3018611	1,490,974
101	12/14/2023	Phys.org	United States	From flush to faucet: More places look to turn sewage into tap water	https://phys.org/news/2023-12-flush-faucet-sewage.html	7,743,750
102	12/13/2023	News From The States - Relentless Reporting	United States	From flush to faucet: More places look to turn sewage into tap water	https://westvirginiawatch.com/2023/12/13/from-flush-to-faucet-more-places-look-to-turn-sewage-	10,497
103	12/12/2023	Missouri Independent	United States	From flush to faucet: More places look to turn sewage into tap water	https://missouriindependent.com/2023/12/12/from-flush-to-faucet-more-places-look-to-turn-sewage-	213,307
104	12/12/2023	Areyoupop	United States	More places look to turn sewage into tap water	https://areyoupop.com/more-places-look-to-turn-sewage-into-tap-water/	1,208
105	12/12/2023	www.azmirror.com	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.azmirror.com/2023/12/12/from-flush-to-faucet-more-places-look-to-turn-sewage-into-	96,934
106	12/12/2023	stateline.org	United States	From flush to faucet: More places look to turn sewage into tap water	https://stateline.org/2023/12/12/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-	59,844
107	12/12/2023	Kearney Courier	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.mycouriertribune.com/news/state_news/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/article_0252aacf-2f14-5254-	79,439
108	12/12/2023	Lincoln News Now	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.lincolnnewsnow.com/news/state/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water/article_b72ecc09-184d-5ea5-b952-	15,520

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109	12/12/2023	NewsBreak	United States	From flush to faucet: More places look to turn sewage into tap water	https://www.newsbreak.com/orange-county-ca/3267923677064-from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water	10,139,234
110	12/12/2023	CAWG	United States	STATELINE: From flush to faucet: More places look to turn sewage	https://mavensnotebook.com/2023/12/12/stateline-from-flush-to-faucet-more-places-look-to-turn-	18,641
111	12/12/2023	Herald/Review Media	United States	From flush to faucet: More places look to turn sewage into tap water	https://app2.cision.com/#/articles/52579466619	47,906
112	12/12/2023	Perryville Republic Monitor	United States	From flush to faucet: More places look to turn sewage into tap water Perryville Republic Monitor	https://www.republicmonitor.com/stories/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-water_70264	1,791
113	12/12/2023	Perryville Republic Monitor	United States	From flush to faucet: More places look to turn sewage into tap water	https://republicmonitor.com/stories/from-flush-to-faucet-more-places-look-to-turn-sewage-into-tap-	1,355
114	12/12/2023	newhampshirebulletin.com	United States	From flush to faucet: More places look to turn sewage into tap water	https://newhampshirebulletin.com/2023/12/12/from-flush-to-faucet-more-places-look-to-turn-sewage-	36,916
115	12/9/2023	Tucson.com	United States	Tucson to be a pioneer in treating wastewater for drinking	https://tucson.com/tncms/asset/editorial/78ad3f78-7e81-11ee-99ca-87a53aa47577/	870,022
116	12/9/2023	BLOX Digital	United States	Tucson will be a pioneer in treating wastewater directly for drinking	http://www.tncontentexchange.com/news/local/tucson-water-wastewater-treated-drinking-technology/article_17489cde-3331-5a59-859a-	4,310
117	12/9/2023	Tucson.com	United States	Tucson will be a pioneer in treating wastewater directly for drinking	https://tucson.com/news/local/subscriber/tucson-water-wastewater-treated-drinking-technology/article_78ad3f78-7e81-11ee-99ca-	811,159
118	12/4/2023	Water Finance & Management	United States	Tackling PFAS with Innovation: Orange County Water District's	https://waterfm.com/tackling-pfas-with-innovation-orange-county-water-districts-approach/	4,025
119	11/22/2023	WaterWorld	United States	SWMOA names Outstanding Large Plant Operator of the Year	https://www.waterworld.com/water-utility-management/press-release/14301845/swmoa-names-outstanding-large-plant-operator-of-the-	40,937

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	Date	Media Outlet	Country	Title	Link	Total Readership
120	11/10/2023	The Coronado News — Breaking news website and direct-mail free newspaper – The Coronado News	United States	Air sensors, storm recover plan in place to help with sewage crisis – The Coronado News	https://thecoronadonews.com/2023/11/air-sensors-storm-recover-plan-in-place-to-help-with-sewage-crisis/	2,115
121	11/9/2023	NewsBreak	United States	Southern California Water Leaders Honored at 2023 Awards Gala	https://original.newsbreak.com/@lynn-lipinski-1806682/3223076353258-southern-california-water-leaders-honored-at-2023-awards-gala	2,418,941
122	11/9/2023	Patch	United States	Water Leaders Honored at SoCal Water Coalition's 2023 Awards	https://patch.com/california/los-angeles/water-leaders-honored-socal-water-coalitions-2023-	12,246,010
123	11/9/2023	International Desalination	United States	Orange County Water District receives honors for water reuse	https://idadesal.org/orange-county-water-district-receives-honors-for-water-reuse-leadership/	13,474
124	11/8/2023	aguasresiduales.info	Colombia	ASERSA Open Webinar Series 17 sobre "Regeneración y Reutilización del Agua" especial	https://www.aguasresiduales.info/revista/webinars/asersa-open-webinar-series-17-sobre-regeneracion-y-MA0bW	26,066
125	11/6/2023	Environmental Expert	Spain	Tackling The Challenges Of Desalination For Water Crisis	https://www.environmental-expert.com/articles/tackling-the-challenges-of-	141,974
126	11/2/2023	News Bites US Markets	United States	WEEKLY RECAP: BLACK & VEATCH CORPORATION NEWS THIS PAST WEEK NOV 01, 2023	https://app2.cision.com/#/articles/52227209278	660
127	10/30/2023	News Bites US Markets	United States	WEEKLY RECAP: BLACK & VEATCH CORPORATION NEWS THIS PAST WEEK OCT 29, 2023	https://app2.cision.com/#/articles/52199087787	660
128	10/19/2023	Agriculture Industry Today	United States	The Fear and Facts Surrounding Wastewater Treatment -- Environmental Protection	https://agriculture.einnews.com/article/662972943?lcf=Vq6cEqE051RSEfNmr-eWcE9xHSegJOE2kPdUoC_JpgM%3D	1,149
129	10/19/2023	Environmental Protection	United States	The Fear and Facts Surrounding Wastewater Treatment -- Environmental Protection	https://eponline.com/Articles/2023/10/19/The-Fear-and-Facts-Surrounding-Wastewater-Treatment.aspx	10,800

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	Date	Media Outlet	Country	Title	Link	Total Readership
130	10/16/2023	New Santa Ana	United States	Public meeting set for O.C. South Basin Groundwater Protection Project on Oct. 19	https://newsantaana.com/public-meeting-set-for-o-c-south-basin-groundwater-protection-project-on-oct-19/	68,415
131	10/14/2023	IEyeNews	Cayman Islands	Is wastewater an answer for adapting to Climate Change?	https://www.ieyeneews.com/is-wastewater-an-answer-for-adapting-to-climate-change/	2,156
132	10/11/2023	"pacific" - Google News	United States	Public Meeting for South Basin Groundwater Protection Project - City of Santa Ana	https://www.santa-ana.org/event/public-meeting-south-basin-groundwater-protection-project/	60,089
133	10/5/2023	www.publicceo.com	United States	Four special districts recognized for statewide leadership on climate action - PublicCEO	https://www.publicceo.com/2023/10/four-special-districts-recognized-for-statewide-leadership-on-climate-action/	2,340
134	10/4/2023	www.enpublishing.co.uk	United Kingdom	-Fitch Affirms Orange County Water District's (CA) Rev COPs, Bonds and WIFIA at 'AAA'; Outlook	https://app2.cision.com/#/articles/51972845887	630
135	10/4/2023	M2	United Kingdom	-Fitch Affirms Orange County Water District's (CA) Rev COPs, Bonds and WIFIA at 'AAA'; Outlook	https://app2.cision.com/#/articles/51972844615	5,460
					Total Readership	63,613,925