WRD
WATER REPLENISHMENT DISTRICT

2022 SUMMER NEWSLETTER

CELEBRATING 60 YEARS

OF RECYCLED WATER DEVELOPMENT

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MESSAGE FROM THE PRESIDENT

Board President,
John D. S. Allen
Division 3

Boardmember,
Joy Langford
Division 1

Board Treasurer,
Robert Katherman
Division 2

Board Vice President,
Sergio Calderon
Division 4

Board Secretary,
Vera Robles DeWitt
Division 5

PRESIDENT'S MESSAGE

Dear Friend,

As the WRD Board President, I am happy to report that WRD has made great strides in preserving our valuable groundwater and strengthening regional drought resilience. However, the Western US is facing what geologists are calling a "megadrought." We have endured severe droughts for over two decades and are living in some of the driest conditions in 1,200 years. The good news is that WRD has planned ahead with innovative groundwater management and developed a water supply that is drought resilient.

Cities within WRD's boundaries rely on both groundwater and imported water to meet the needs of 4 million people. Nearly half of the tap water available is from groundwater, and the remainder is imported from hundreds of miles away using a series of canals and pipelines. The bad news is that imported water is becoming less available. This means that groundwater must continue to be a reliable source of water in our region.

WRD has worked toward water sustainability for decades. This year we are celebrating 60 years of utilizing recycled water for replenishment. Since our founding in 1959, WRD has built a series of water recycling and stormwater capture projects. In 2019, WRD completed its Albert Robles Center for Water Recycling and Environmental Learning (ARC), which treats up to 14.8 million gallons of water a day. WRD also recently broke ground on an injection well that will store up to 2 million gallons of water a day in drinking water aquifers.

The drought is a very, very serious issue and we're counting on you to do your part with water conservation, too. Following your city's drought guidelines, watering your lawn at dawn or dusk and ensuring that your sprinklers are properly adjusted are small everyday changes you can do to make a big difference.

We look forward to seeing you in the community!

Sincerely,

John D. S. Allen
WRD Board President

CALIFORNIA DROUGHT

DROUGHT TIPS

Indoor Conservation Tips

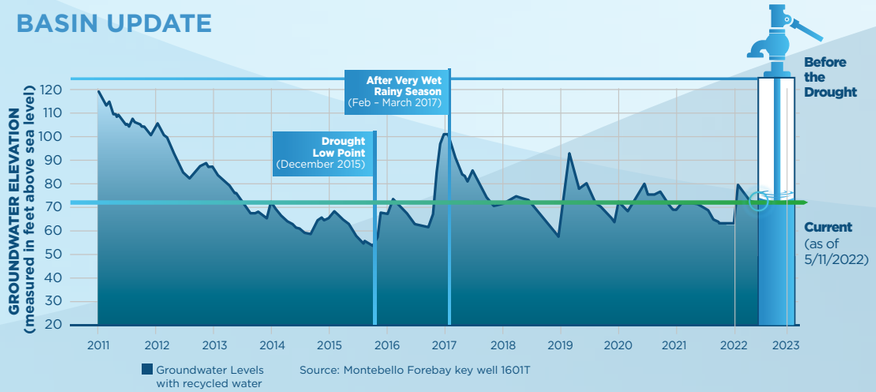
- Fix leaks, including leaky toilets
- Install high-efficiency toilets, aerators on bathroom faucets, and water-efficient shower heads
- Take shorter showers
- Turn off water when brushing teeth or when shaving

Outdoor Conservation Tips

- Plant drought-tolerant plants and trees
- Recycle indoor water to use on plants
- Refrain from watering your home landscape when it rains
- Use a broom to clean driveways, patios, and sidewalks instead of water from a hose

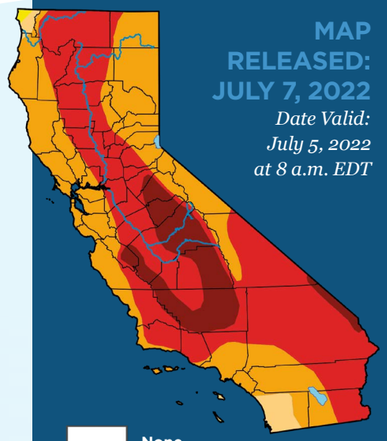
GROUNDWATER MONITORS

BASIN UPDATE



WRD's groundwater basins are healthy despite the record-breaking megadrought! Check out water saving tips to do your part in saving water.

STATE DROUGHT MAP



MAP RELEASED: JULY 7, 2022
Date Valid: July 5, 2022 at 8 a.m. EDT

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)

The US Drought Monitor is a map released every Thursday, showings parts of the US that are in drought. The map uses five classifications: abnormally dry (D0), showing areas that may be going into or are coming out of drought, and four levels of drought: moderate (D1), severe (D2), extreme (D3) and exceptional (D4).

WRD

WELCOMING WRD BOARDMEMBER

JOY LANGFORD

DIVISION 1

Sworn in February 2022

The WRD Board of Directors welcomed Joy Langford as the newest member of the Board. Ms. Langford represents Division 1 of WRD, covering parts of Los Angeles, Compton, Inglewood, and West Carson. With over 15 years of experience in policy and deep ties in the community, she is committed to strengthening environmental justice and sustainability in the region.

STATE OF CALIFORNIA PROPOSITION 1 PROJECTS

WRD continues to make progress on two key projects: perchlorate remediation and well destruction in the Central Basin. A perchlorate groundwater treatment system is being built to help restore groundwater in the northern portion of our service area. The system is anticipated to begin functional testing in the fall of this year. WRD is also working to destroy five inactive wells and has destroyed two. The program is scheduled to be complete in fall 2022. Both projects are made possible by state-level grant funding from the Prop 1 program. Learn more about both programs at www.wrd.org.

Aerial view of WRD's perchlorate treatment system site.

WRD working to destroy an inactive water supply well.

WRD CELEBRATES 60 YEARS OF DEVELOPING RECYCLED WATER

60 YEARS OF RECYCLED WATER

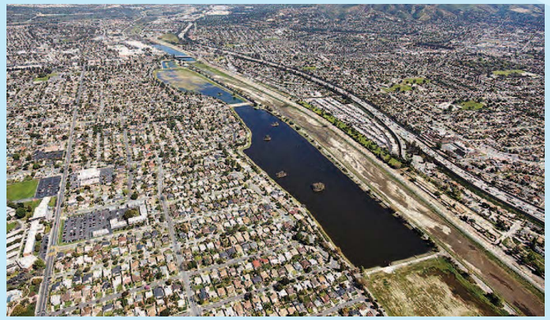
This year WRD celebrates 60 years of using recycled water for groundwater replenishment. WRD financed the world's first water reclamation plant for groundwater replenishment in 1962. Since then, WRD has built water purification plants to bring new sources of local water to the region. Through strategic planning, WRD has built a nearly "drought-proof" supply of water in Los Angeles County for replenishment and continues to build on this success.

Four million people across 43 cities in southern LA County rely on groundwater managed by WRD and use about 72 billion gallons of groundwater annually. Located in California, WRD's service area has endured tremendous drought conditions, including a "megadrought" that is the worst recorded drought in 1,200 years. WRD's forward-thinking planning ensures that residents and businesses have access to a locally sustainable water supply during droughts and dry years. With imported water restrictions in place, WRD's work in water conservation is key to building a sustainable water future.

RAINWATER IS ONLY 1/8 OF OUR WATER SUPPLY!

Did you know that southern Los Angeles County doesn't get enough rain to meet the local demand for water? Rainwater only accounts for about 1/8 of our water supply. Nearly half of the region's water supply comes from groundwater, and the other half is imported through a series of channels and pipes from the Colorado River and Bay Delta. WRD supplements our rainfall by replenishing groundwater basins with stormwater and recycled water.

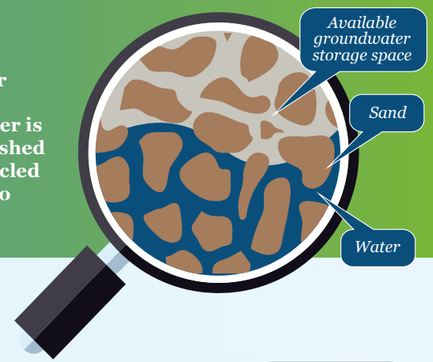
Photo of California's aqueduct. The aqueduct is a series of canals, pipelines and tunnels that bring water hundreds of miles to LA County.



Picture of Montebello Forebay Spreading Grounds where water can filter from the surface into deep underground aquifers.

Did You Know?

What is groundwater storage? Groundwater is stored in layers of sediment or rock beneath the surface in what are called aquifers. Within an aquifer, the water is found in the pore spaces between sand and gravel. When groundwater is extracted, available space is created to store water. This space can be replenished naturally or artificially by humans with stormwater, imported water, or recycled water. Thanks to WRD's innovative planning, imported water is not needed to replenish the basins at the spreading grounds!

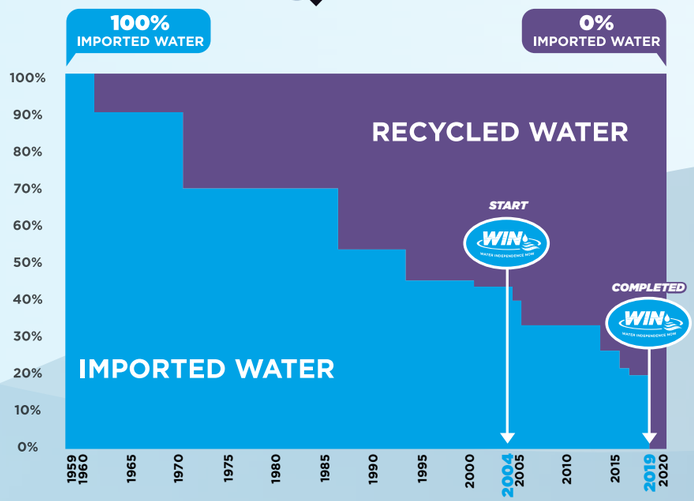


BUILDING A DROUGHT-PROOF LOCAL SUPPLY OF WATER

When WRD was first established in 1959, 100% of the water supply used to replenish groundwater basins was imported. In 2019, WRD completed the Water Independence Now (WIN) program – a suite of projects and programs that offset the need for drought-sensitive imported water. WRD's local water supply is "drought proof"! Our operations for groundwater replenishment only rely on recycled water and stormwater capture.

Groundwater only makes up half of the region's water supply. The other half is imported from hundreds of miles away.

WRD's next ambitious goal is the Water Independence for All (WIN 4 All) initiative. When complete, WIN 4 All will nearly offset the need for any imported water in WRD's service area. Although we can't see them, beneath our feet are deep aquifers that can hold up to 150 billion gallons of water. WRD will work with partners to fill that storage space with water and create a reserve of water for extreme droughts.



This graph demonstrates WRD's efforts and progress toward building a drought resilient supply of water in the region.

RECYCLED WATER OVER THE YEARS

1962 - WRD finances the world's first recycling facility for groundwater replenishment – the Whittier Narrows Reclamation Plant. The Los Angeles County Sanitation Districts (LACSD) owns and operates this facility.

1970 - LACSD's Pomona Water Reclamation Plant becomes a source of treated water for WRD's replenishment operations.

1972 - LACSD's San Jose Creek Plant is a new source of recycled water to replenish the basins.

THE WATER TREATMENT PLANTS SUPPLY OVER 650 BILLION GALLONS OF WATER ANNUALLY FOR GROUNDWATER REPLENISHMENT.

1995 - WRD accepts water from the West Basin Muncipal Water District's Edward C. Little water treatment facility for replenishment activities.

Image courtesy of West Basin Municipal Water District

2002 - The WRD Goldsworthy Desalter facility begins operations and treats salty groundwater. This creates a new source of water for WRD's operations.

2019 - WRD celebrates the grand opening of the Albert Robles Center, a water purification plant that treats up to 14.8 million gallons of water per day.

WRD AND MAYWOOD MUTUAL WATER COMPANY NO. 2 COMPLETE PROJECT TO REMOVE CONTAMINATION FROM DRINKING WATER

California State Assembly Speaker Rendon, State Water Board Commissioner Nichole Morgan, Members of the WRD Board and representatives from Maywood Mutual Water Company No.2 cut the ribbon for Maywood Mutual Water Company No. 2's treatment system.

WRD hosted a ribbon-cutting at the Maywood Mutual Water Company No. 2 to celebrate the installation of a water treatment system. Prior to the well remediation project's completion, drinking water was affected by manganese, a naturally occurring mineral. In higher concentrations, manganese can discolor water and create an unpleasant smell.

WRD led the effort to acquire funding for the project, securing $1 million from state funding in partnership with Speaker Anthony Rendon and $1.7 million from Proposition 1. The "wellhead treatment" project ensures that groundwater pumped from the local well is free of manganese. This project is part of a series of efforts to improve the water quality in and around the City of Maywood.

Speaker Anthony Rendon and State Water Resources Control Board Member Nichole Morgan attended to celebrate WRD and Maywood Mutual Water Company No. 2's success. WRD Director Sergio Calderon grew up in Maywood and provided remarks during the ribbon cutting.

Pictured is the water treatment system installed at a water production well at Maywood Mutual Water Company No. 2.

INLAND INJECTION WELL AT THE LEO J. VANDER LANS FACILITY (LVL) GROUNDBREAKING CEREMONY

In May, WRD broke ground on the Inland Injection Well Project. This project will maximize the district's recycled water supplies by injecting excess water directly into our underground aquifers.

Through their industry-leading initiative, WRD was selected by PepsiCo for a $1.5 million grant to implement the groundwater replenishment project and $1.5 million from the US Bureau of Reclamation.

As California weathers another drought cycle and faces water restrictions in certain counties, the importance of local groundwater projects is clear. When the WRD Inland Injection Well Project is complete, it will allow us to store up to an additional 2 million gallons of purified recycled water per day from the WRD Leo J. Vander Lans Advanced Water Treatment Facility for future use.

President John D. S. Allen and Director Rob Katherman discuss project with guests.

WRD received a $1.5 million grant from the US Bureau of Reclamation and a $1.5 million grant from PepsiCo for the inland injection well project at LVL.

WRD IN THE COMMUNITY

WRD is proud to attend local events to share resources on water conservation and environmental sustainability with the community. Our Board of Directors and staff from WRD have attended local events to give away water conservation items like faucet aerators, water hose nozzles, reusable straws and much more!

WRD Director Joy Langford attended a local Juneteenth event to share strategies on water conservation.

WRD Director Sergio Calderon celebrated Children's Day in the City of Cudahy.

WRD Director Vera Robles DeWitt shared water saving tips on Earth Day in the City of Carson.

FIELD TRIPS TO THE ALBERT ROBLES CENTER (ARC)

Photo of students viewing model of the San Gabriel River at WRD's Albert Robles Center.

WRD offers virtual and limited in-person tours of the Albert Robles Center (ARC) for Water Recycling and Environmental Learning. The ARC facility encompasses an advanced water treatment facility, a fully digital learning center and water-efficient demonstration gardens. If you would like to request a group tour for your organization or school, please email us at ***info@wrd.org*** and we will contact you with future availability.

Register at ***www.wrd.org***

AUGUST 20 SATURDAY

10:00AM-11:00AM
or 11:30AM-12:30PM

SEPTEMBER 17 SATURDAY

10:00AM-11:00AM
or 11:30AM-12:30PM

ECO GARDENER

Eco Gardener participants can visit WRD's sustainable garden to learn about drought-tolerant plants.

We have resumed in-person Eco Gardener classes once again! WRD opened the doors to the Albert Robles Center (ARC) for Water Recycling and Environmental Learning in May to welcome people interested in sustainable gardening practices. All classes are FREE but require registration at ***www.wrd.org/EcoGardener***.

WRD
WATER REPLENISHMENT DISTRICT

8th Annual

WRD STUDENT ART CONTEST

WRD NEEDS YOUR CREATIVITY FOR OUR 2023 CALENDAR!

Visit:

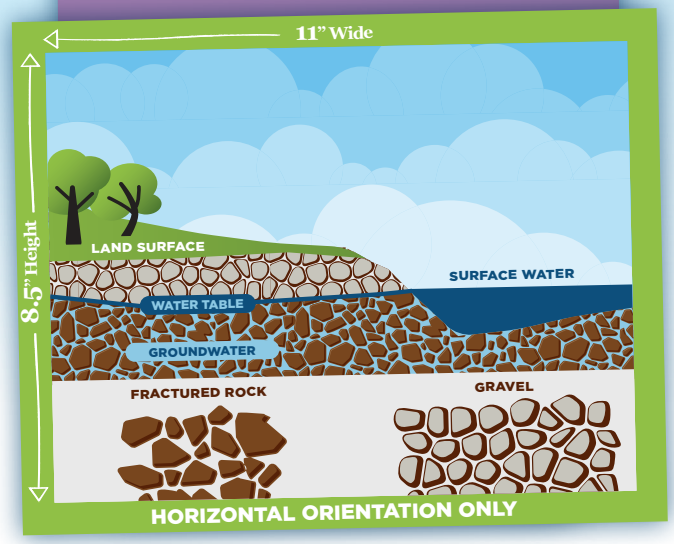
www.wrd.org/StudentArtContest

TO WIN, YOUR ARTWORK MUST:

#1 *Demonstrate the importance of groundwater and/or water conservation.*

#2 *Be submitted on 8 1/2" x 11" paper in horizontal orientation by Sunday, November 6, 2022, 11:59pm.*

#3 *Include parental/guardian consent.*



WATER IS LIFE! The Water Replenishment District needs your creativity to spread the word on water in our 2023 Water Awareness Calendar. Students in grades pre-k - 6 from the WRD service area are eligible to enter this year's contest.

TOPICS

Topic Options Include:

#1 Groundwater: The Treasure Beneath Our Feet
#2 Water Nerds are Water Heroes
#3 There's Life in Every Drop!
#4 How do You Conserve Water?

WRD Water Nerd

ARTWORK SUBMISSION

The deadline for pre-kindergarten through sixth grade students to submit their artwork is **Sunday, November 6, 2022.** The selected finalists who submitted online will be asked to send their original artwork to WRD by November 30, 2022. Students may submit their completed artwork and Parental Approval Form (PAF):

- **Online at www.wrd.org/StudentArtContest (send picture of artwork)**
- **By mail to WRD Art Contest at 4040 Paramount Blvd., Lakewood, CA 90712 (send original artwork & PAF)**

CONTEST RULES

- Contestants must reside in, or attend a school within, the boundaries of WRD's 43 city service area and must be in pre-kindergarten through 6th grade.
- Don't get disqualified! Artwork must be original (no computer-made, or copyrighted material such as superhero characters), and submitted on white 8 ½" x 11" poster board or paper in landscape (horizontal) orientation.
- Crayons, markers, ink, poster paint, chalk, water color, cut paper, or fabric may be used.
- For online submissions: keep your original work! Winners will need to send in their original work in order to claim their prize.
- One entry per student. All entries become property of WRD upon receipt.
- For more info contact info@wrd.org

wrd.org/StudentArtContest

STUDENT ART CONTEST

@WRDsocal
4040 Paramount Blvd. Lakewood, CA 90712
www.WRD.org