

# MESA WATER EDUCATION CENTER MID-YEAR UPDATE

February 12, 2025

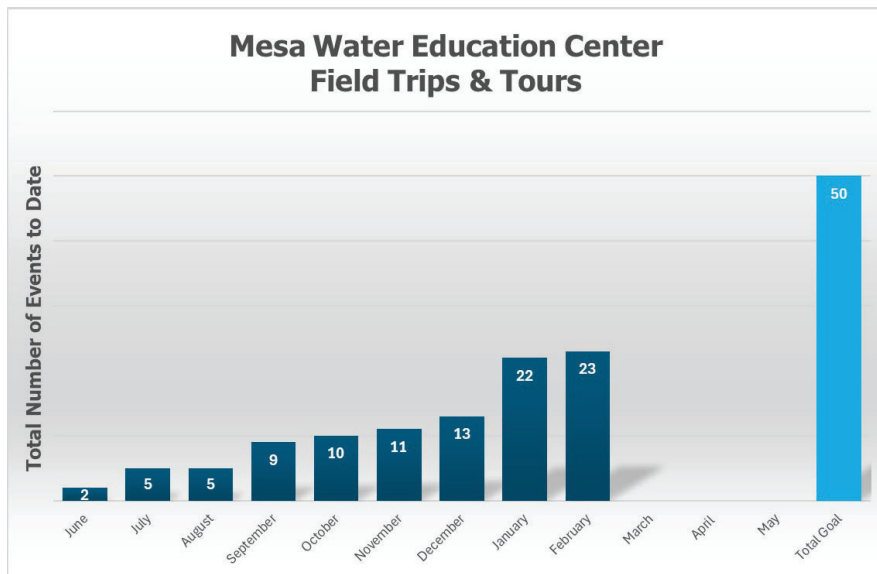
## Strategic Plan Goal and Objective

**Goal #4:** Increase favorable opinion of Mesa Water®.

**Objective D:**

- “Increase awareness of Mesa Water and water among key audiences.”
  - “Host 50 field trips and tours at the Mesa Water Education Center (MVEC) by June 2025.”

# Mesa Water Education Centers Tours (as of 02/01/25)



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## Field Trips



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# Community Tours



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# Events



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## Teacher Survey Data

- 5/5 overall satisfaction
- Excellent rating in **all** areas
- 100% responded that the field trip helped achieve science standards for students
- 100% said that the field trip exceeded their expectations
- 100% would recommend to a colleague

"The redwood trees were the overwhelming favorite for its multi-sense aspect. They enjoyed the story of why the trees were there. The students also very much liked the interactive screens, hands-on activity and the movies."  
- Page Academy

"The students enjoyed learning in an interactive setting."  
-Davis Magnet Elementary

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## Event Survey Data

"It was a pleasure working with Mesa Water staff."  
- Janet Jaworski  
SWMOA  
Administrative  
Director

### Event Survey

- Space was clean, parking was adequate and room set up met expectations.
- 100% would consider hosting another event at the MVEC.

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# Looking Ahead

- Save Our Youth Career Day Feb. 18
- Water Issues Study Group Night II Feb. 24
- Girl Scout Clinic March 22
- MVEC Grand Opening March 28
- Institute for Conservation Research and Education May 23
- Community Open House late Spring TBD



**Water Resources & Conservation Patch**

**March 22, 2025 | 9-11 AM**  
Mesa Water District  
1350 Gisler Avenue, Costa Mesa, CA 92626

**The 2-hour clinic includes:**

- ✓ Exclusive tour of Mesa Water's NEW Water Education Center
- ✓ Hands-on activities that explore good water stewardship
- ✓ A special water education patch upon completion of the clinic

**OPEN TO ALL LEVELS OF GIRL SCOUTS!**  
*The clinic is limited to 50 Girl Scouts. Register your troop today!*

**ONLY \$5 PER GIRL SCOUT!**

Register Here: [www.mwdoc.com/march22clinic](http://www.mwdoc.com/march22clinic) ...and more!

QUESTIONS? [girlscoutprogram@mwdoc.com](mailto:girlscoutprogram@mwdoc.com) 714-916-0763

Offered jointly by:  
MWDOC, MesaWater DISTRICT, girl scouts of orange county



# QUESTIONS?

# MESA WATER EDUCATION CENTER BINGO!

## NANOFILTRATION



A treatment process that pushes water through semi-permeable membranes to remove the amber color from the groundwater.



# WATER METER

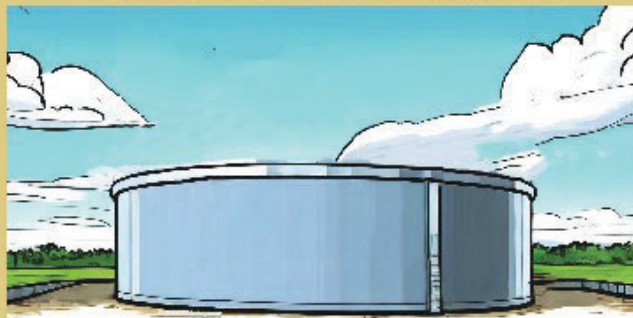


This is the device that measures how much water a home or a business uses.

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# RESERVOIR



A large structure that stores water. The reservoir at the Mesa Water Reliability Facility holds one million gallons of water!

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# INFRASTRUCTURE



This includes all the physical parts, such as pipes, fire hydrants, wells, and reservoirs that bring clean water to Mesa Water customers.

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# 100% LOCAL WATER



Mesa Water District is the only water district in Orange County that provides 100% local groundwater and does not need to import more expensive water from Northern California and the Colorado River.

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# WATER-WISE

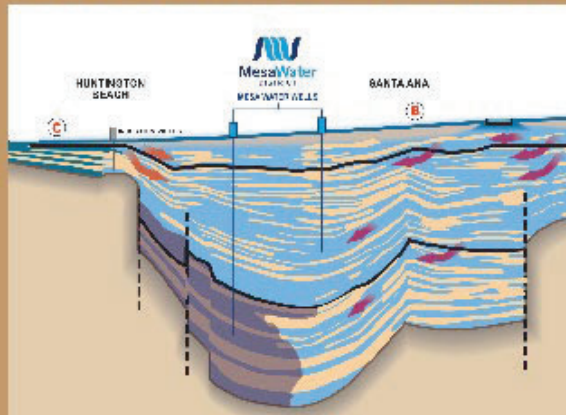


While Mesa Water District has an abundance of water, we encourage customers to use outdoor water wisely because outdoors is where we use the most water for landscaping.

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# GROUNDWATER BASIN



An underground geological area where groundwater collects and is stored between layers of soil, sand and rock.

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# WATER QUALITY



All water produced by Mesa Water exceeds state and federal standards for public drinking water. Mesa Water performs over 30,000 water quality tests annually.

# WATER CAREERS



There are exciting careers in the water industry—operations, water quality, engineering, finance, communications, customer service, administration and more!



# SPECIAL DISTRICT



A special district provides a service for a specific area. Mesa Water is a special district, providing one service – water – to homes and businesses in Costa Mesa, a portion of Newport Beach and John Wayne Airport.

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# SOLAR ENERGY



The sun is a source of power that fuels the Earth's water cycle.

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## MESA WATER RELIABILITY FACILITY



The Mesa Water Reliability Facility, also known as the "Murph," features two deep-water wells, a nanofiltration facility, and a one-million-gallon reservoir.

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## RECHARGE



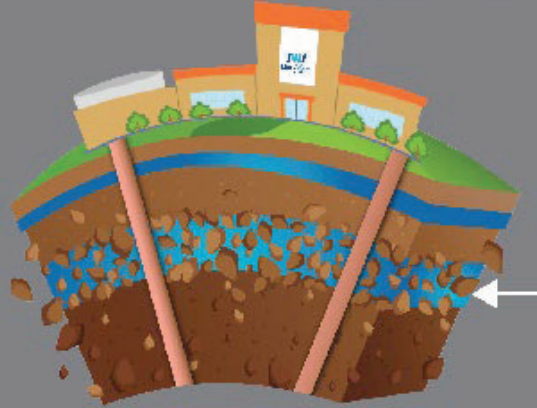
The process in which aquifers are refilled. This happens through infiltration and with the aid of injection wells.

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# PRINCIPAL AQUIFER



Water storage from 200 to 1,300 feet deep that yields significant quantities of water to wells.

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# FIRE HYDRANT



Mesa Water District maintains 3,400 fire hydrants to ensure public safety.

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# PRECIPITATION

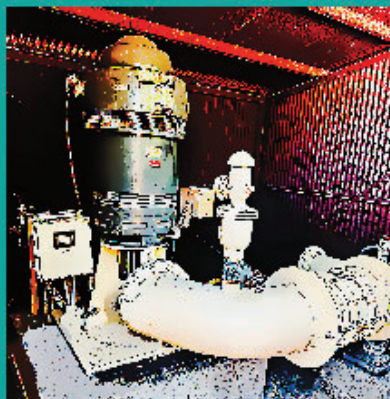


Condensed water falling from the atmosphere to the Earth in the form of rain, snow, hail, fog drip or sleet.

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# GROUNDWATER WELL



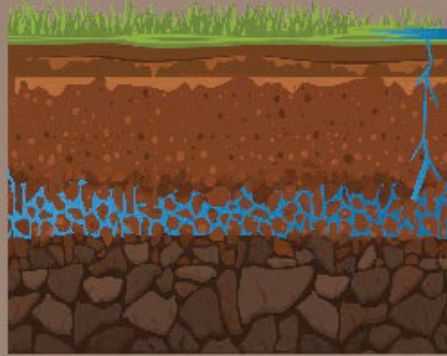
A hole that is drilled into the ground to pump out water from the aquifer.

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# GROUNDWATER

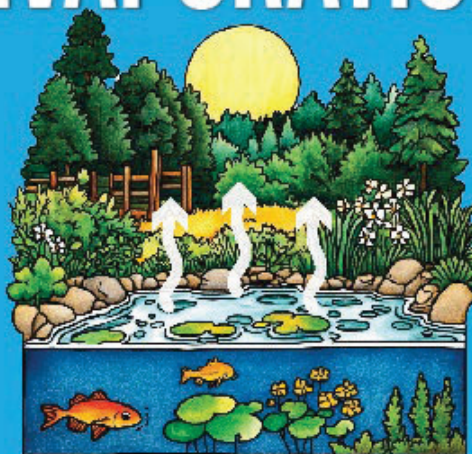


Water found and stored underground in the cracks and spaces in soil, sand, and rock.

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# EVAPORATION



Water enters the atmosphere by changing from liquid to gas. It is part of the water cycle.

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# PIPELINE



Mesa Water maintains 317 miles of pipeline throughout its service area.

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# DRINKING WATER

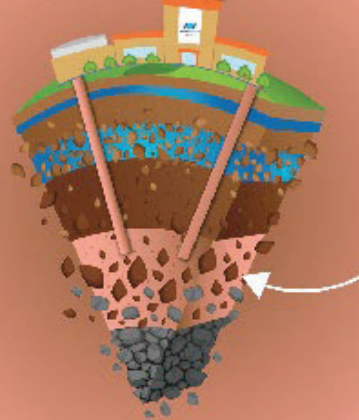


Drinking water is the clean, safe water that Mesa Water provides its customers. This water comes from local groundwater pumped from the vast Orange County Groundwater Basin.

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# DEEP AQUIFER



The water here is as deep as 2,000 feet below the surface and has an amber tint due to the redwoods that were here over 30,000 years ago!

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# INFILTRATION



Movement of water from Earth's surface into the ground. This aids in the recharging of aquifers.

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# AQUEDUCT



Aqueducts transport water from natural sources to where it is needed.

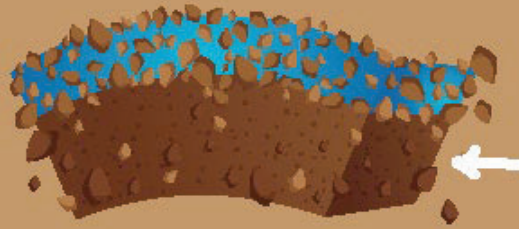
# CONDENSATION



Liquid water changes to gas and collects to form water droplets. Droplets can create clouds, fog, dew and frost.

This is part of the natural water cycle.

# AQUITARD



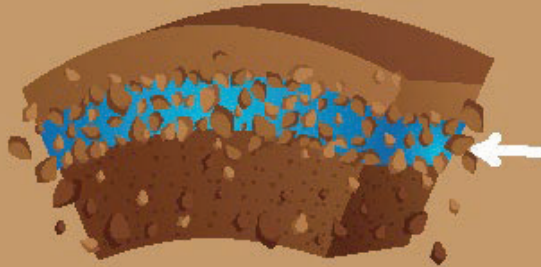
Underground layers of silt and clay that limit the flow of groundwater from one aquifer to another.

# WATER



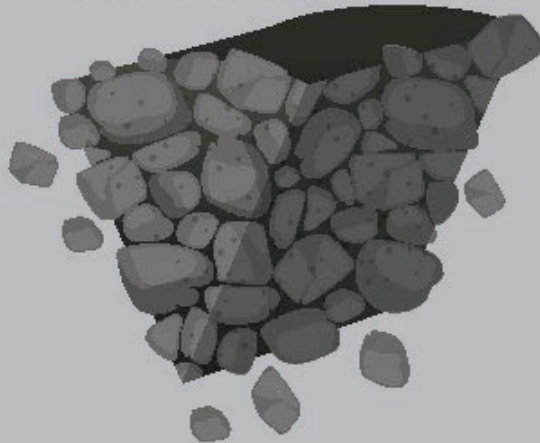
This valuable resource is scientifically known as H<sub>2</sub>O and all life depends on it. It is the "key to life!"

# AQUIFER



An underground geological area where groundwater collects.

# BEDROCK



Hard, solid rock below the aquifer.



# RENEWABLE



Something that is able to be used again and again. Water is a renewable resource!

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# NATIVE PLANTS



Native plants grow naturally in an area and are suited to their natural habitat. California native plants need less water than non-native plants and are a beautiful, water-wise addition to a landscape.

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