



Yucaipa Valley Water District

12770 Second Street, Yucaipa, California 92399 Phone: (909) 797-5117

Notice and Agenda of a Regular Meeting of the Board of Directors

Wednesday, April 6, 2016 at 6:00 p.m.

- I. **CALL TO ORDER** - Pledge of Allegiance
- II. **ROLL CALL**
- III. **PUBLIC COMMENTS** - At this time, members of the public may address the Board of Directors on matters within its jurisdiction. To provide comments on specific agenda items, please complete a speaker's request form and provide the completed form to the Board Secretary prior to the board meeting.
- IV. **CONSENT CALENDAR** - All matters listed under the Consent Calendar are considered by the Board of Directors to be routine and will be enacted in one motion. There will be no discussion of these items prior to the time the board considers the motion unless members of the board, the administrative staff, or the public request specific items to be discussed and/or removed from the Consent Calendar.
 - A. Minutes of Meetings
 - 1. Regular Board Meeting - March 16, 2016
 - 2. Board Workshop - March 29, 2016
- V. **BOARD REPORTS**
 - A. San Gorgonio Pass Regional Water Alliance - March 23, 2016
 - B. Recycled Water Fill Station training Session for Residential Customers - March 30, 2016
 - C. Community Water Meeting - March 30, 2016
 - D. Special Board Meeting - March 31, 2016
 - E. Reports by Board Members
- VI. **STAFF REPORT**

Any person with a disability who requires accommodation in order to participate in this meeting should telephone Tysa Baeumel at (909) 797-5117 at least 48 hours prior to the meeting in order to make a request for a disability-related modification or accommodation.

Materials related to an item on this agenda submitted to the Board of Directors after distribution of the board meeting packet are available for public inspection during normal business hours at the District office located at 12770 Second Street, Yucaipa. Meeting material is also be available on the District's website at www.yvwd.dst.ca.us

VII. DISCUSSION ITEMS

- A. Consideration of Bear Valley Mutual Water Company Stock Rental Commitments for the 2016 Irrigation Season [[Director Memorandum No. 16-037 - Page 13 of 22](#)]

RECOMMENDED ACTION: That the Board approves the rental of Bear Valley Mutual Water Company stock for the 2016 Irrigation Season to Camp Morning Star and Larry Jacinto.

VIII. DIRECTORS COMMENTS

IX. ANNOUNCEMENTS

- A. April 12, 2016 at 4:00 p.m. - Board Workshop
B. April 20, 2016 at 6:00 p.m. - Regular Board Meeting
C. April 26, 2016 at 4:00 p.m. - Board Workshop
D. April 27, 2016 at 6:00 p.m. - San Gorgonio Pass Regional Water Resource Alliance at the City of Banning
E. April 28, 2016 at 6:00 p.m. - Special Board Meeting at the Beaumont Cherry Valley Water District
F. May 4, 2016 at 6:00 p.m. - Regular Board Meeting
G. May 10, 2016 at 4:00 p.m. - Board Workshop
H. May 18, 2016 at 6:00 p.m. - Regular Board Meeting
I. May 24, 2016 at 4:00 p.m. - Board Workshop
J. May 25, 2016 at 6:00 p.m. - San Gorgonio Pass Regional Water Resource Alliance at the City of Banning
K. June 1, 2016 at 6:00 p.m. - Regular Board Meeting

X. CLOSED SESSION

- A. Conference with Labor Negotiator (Government Code 54957.6)
District Negotiator: Joseph Zoba, General Manager
Employee Organization: IBEW Local Union 1436-YVWD Employees Association

XI. ADJOURNMENT

Consent Calendar



Yucaipa Valley Water District

The board meeting minutes from March 16, 2016 will be distributed at the board meeting for review and consideration.

The workshop minutes from March 29, 2016 will be distributed at the board meeting for review and consideration.

Board Reports



Yucaipa Valley Water District



Notice and Agenda of a Regular Meeting Wednesday, March 23, 2016 at 5:00 p.m.

Banning City Hall Council Chambers
99 East Ramsey Street, Banning, California 92220

1. Call to Order
2. Public Comments
3. Approval of Minutes
 - a. Alliance Meeting Minutes - February 24, 2016
4. Administrative Items
 - a. Discussion Regarding Attendance of Primary and Alternative Representatives from Each Member Agency
5. Discussion Items
 - a. Discussion Regarding Regional Water Resource Issues
6. Presentation
 - a. The California Water Fix, Securing State Water Supplies
by Jeff Davis, General Manager, San Gorgonio Pass Water Agency
7. Future Meeting Topics
8. Comments by Alliance Members
9. Announcements
 - a. Next Meeting Date: **Wednesday, April 27, 2016 at 5:00 pm**
10. Adjournment



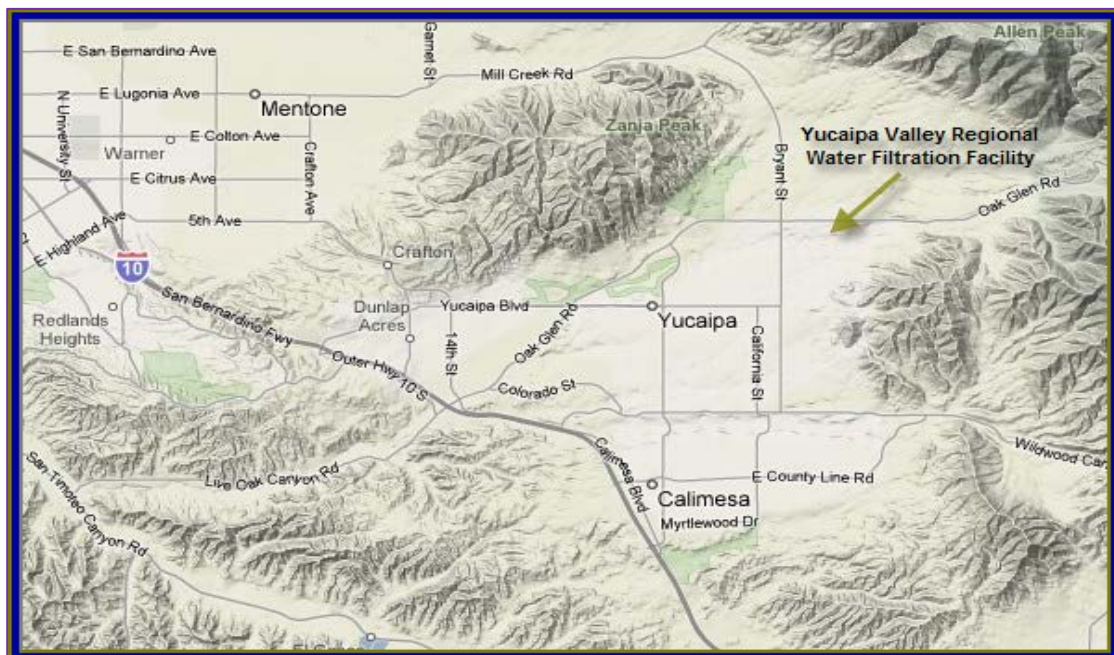
Yucaipa Valley Water District

Notice of a Recycled Water Fill Station Training Session for Residential Customers

The Yucaipa Valley Water District operates a recycled water filling station that provides an opportunity for our residential customers to pick up recycled water for their home landscaping needs. Prior to using recycled water, residential users are required to complete a brief training session to learn more about the program and the use of recycled water.

Please join us at the next meeting to participate in this program.

Recycled Water Training Session
Wednesday, March 30, 2016, at 5:00 p.m.
Yucaipa Valley Regional Water Filtration Facility at Crystal Creek
35477 Oak Glen Road, Yucaipa 92399



For additional information, please contact the Yucaipa Valley Water District at (909) 797-5117 or by email at customer_service@yvwd.dst.ca.us.



Yucaipa Valley Water District

Notice of a Community Water Meeting

Join Us for a Conversation about our Water Resources

The Yucaipa Valley Water District will be hosting a community conversation to discuss current water conditions throughout California, the use of recycled water, and the sustainable management of our water resources.

Wednesday, March 30, 2016, at 6:00 p.m.

Yucaipa Valley Regional Water Filtration Facility at Crystal Creek
35477 Oak Glen Road, Yucaipa 92399



For more additional information, please contact the Yucaipa Valley Water District at (909) 797-5117.



Yucaipa Valley Water District

12770 Second Street, Yucaipa, California 92399 Phone: (909) 797-5117

**Notice and Call of a Special Meeting
of the Board of Directors at the
Beaumont Cherry Valley Water District
560 Magnolia Avenue, Beaumont, California 92223
Thursday, March 31, 2016 at 6:00 PM**

NOTICE IS HEREBY GIVEN that a Special Meeting of the Board of Directors of the Yucaipa Valley Water District will be held on March 31, 2016, at 6:00 pm, at the Beaumont Cherry Valley Water District located at the address above. The following business will be transacted and is the Agenda for this Special Meeting:

AGENDA

1. Call Meeting to Order
2. Welcome and Introductions
3. Public Comment - *At this time, members of the public may provide general comments. To provide comments on specific agenda items, please complete a speaker's request form and submit the completed form to the Board Secretary before that agenda item.*
4. Discussion Regarding the Development of an Allocation Strategy for Imported Water within the San Geronio Pass Water Agency
5. Topics for Future Meetings
6. Next Meeting Date and Time
7. Adjournment

Any person with a disability who requires accommodation in order to participate in this meeting contact the Beaumont Cherry Valley Water District at (951) 845-0159 at least 48 hours prior to the scheduled meeting.

Staff Report



Yucaipa Valley Water District

Discussion Items



Yucaipa Valley Water District



Date: April 6, 2016

Prepared By: Joseph Zoba, General Manager

Subject: Consideration of Bear Valley Mutual Water Company Stock Rental Commitments for the 2016 Irrigation Season

Recommendation: That the Board approves the rental of Bear Valley Mutual Water Company stock for the 2016 Irrigation Season to Camp Morning Star and Larry Jacinto.

Due to shortages of local water supplies, there are several customers of Bear Valley Mutual Water Company that need additional shares to meet their anticipated summer demands. While a number of irrigation customers are looking at activating local groundwater wells, other customers do not have access to sufficient groundwater resources.

The Yucaipa Valley Water District has 588 shares of Bear Valley stock that will not be utilized this year.

The District has received inquiries about the rental of our water shares during the 2016 irrigation season.

The District staff anticipates renting the shares of stock for one year to the following parties:

- Camp Morning Star - 75 shares; and
- Larry Jacinto - 445 shares.

There has been a great deal of cooperation between local water agencies during this drought period and the support provided by Yucaipa Valley Water District will help to facilitate drought solutions for local property owners.

Director Comments



Yucaipa Valley Water District



FACTS ABOUT THE YUCAIPA VALLEY WATER DISTRICT

Service Area Size: 40 square miles (sphere of influence is 68 square miles)

Elevation Change: 3,140 foot elevation change (from 2,044 to 5,184 feet)

Number of Employees: 5 elected board members
62 full time employees

Operating Budget: Water Division - \$13,397,500
Sewer Division - \$11,820,000
Recycled Water Division - \$537,250
Total Annual Budget - \$25,754,750

Number of Services: 12,434 water connections serving 17,179 units
13,559 sewer connections serving 20,519 units
64 recycled water connections

Water System: 215 miles of drinking water pipelines
27 reservoirs - 34 million gallons of storage capacity
18 pressure zones
12,000 ac-ft annual water demand (3.9 billion gallons)
Two water filtration facilities:
- 1 mgd at Oak Glen Surface Water Filtration Facility
- 12 mgd at Yucaipa Valley Regional Water Filtration Facility

Sewer System: 8.0 million gallon treatment capacity - current flow at 4.0 mgd
205 miles of sewer mainlines
5 sewer lift stations
4,500 ac-ft annual recycled water prod. (1.46 billion gallons)

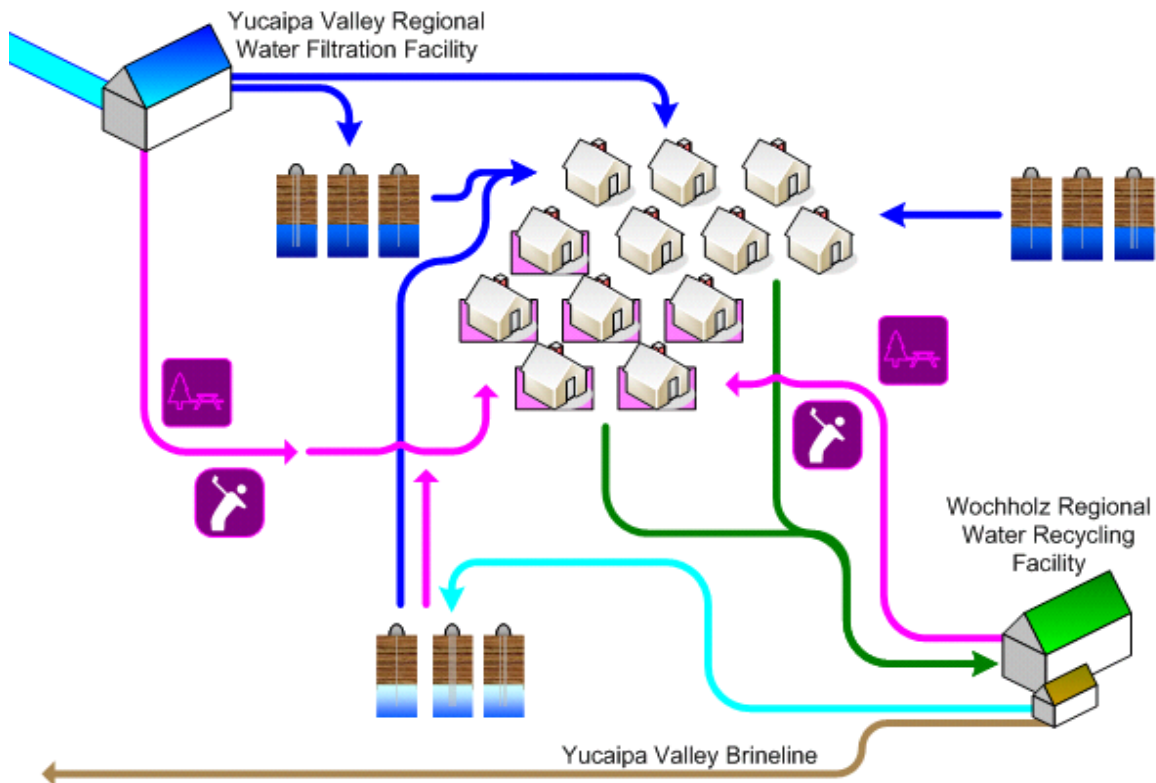
Recycled Water: 22 miles of recycled water pipelines
5 reservoirs - 12 million gallons of storage
1,200 ac-ft annual recycled demand (0.4 billion gallons)

Brine Disposal: 2.2 million gallon desalination facility at sewer treatment plant
1.108 million gallons of Inland Empire Brine Line capacity
0.295 million gallons of treatment capacity in Orange County

State Water Contractors: San Bernardino Valley Municipal Water District
San Geronimo Pass Water Agency



Sustainability Plan: A Strategic Plan for a Sustainable Future: The Integration and Preservation of Resources, adopted on August 20, 2008.





THE MEASUREMENT OF WATER PURITY

One part per hundred is generally represented by the percent (%).
This is equivalent to about fifteen minutes out of one day.

One part per thousand denotes one part per 1000 parts.
This is equivalent to about one and a half minutes out of one day.

One part per million (ppm) denotes one part per 1,000,000 parts.
This is equivalent to about 32 seconds out of a year.

One part per billion (ppb) denotes one part per 1,000,000,000 parts.
This is equivalent to about three seconds out of a century.

One part per trillion (ppt) denotes one part per 1,000,000,000,000 parts.
This is equivalent to about three seconds out of every hundred thousand years.

One part per quadrillion (ppq) denotes one part per 1,000,000,000,000,000 parts.
This is equivalent to about two and a half minutes out of the age of the Earth (4.5 billion years).





GLOSSARY OF COMMONLY USED TERMS

Every profession has specialized terms which generally evolve to facilitate communication between individuals. The routine use of these terms tends to exclude those who are unfamiliar with the particular specialized language of the group. Sometimes jargon can create communication cause difficulties where professionals in related fields use different terms for the same phenomena.

Below are commonly used water terms and abbreviations with commonly used definitions. If there is any discrepancy in definitions, the District's Regulations Governing Water Service is the final and binding definition.

Acre Foot of Water - The volume of water (325,850 gallons, or 43,560 cubic feet) that would cover an area of one acre to a depth of 1 foot.

Activated Sludge Process – A secondary biological sewer treatment process where bacteria reproduce at a high rate with the introduction of excess air or oxygen, and consume dissolved nutrients in the wastewater.

Annual Water Quality Report - The document is prepared annually and provides information on water quality, constituents in the water, compliance with drinking water standards and educational material on tap water. It is also referred to as a Consumer Confidence Report (CCR).

Aquifer - The natural underground area with layers of porous, water-bearing materials (sand, gravel) capable of yielding a supply of water; see Groundwater basin.

Backflow - The reversal of water's normal direction of flow. When water passes through a water meter into a home or business it should not reverse flow back into the water mainline.

Best Management Practices (BMPs) - Methods or techniques found to be the most effective and practical means in achieving an objective. Often used in the context of water conservation.

Biochemical Oxygen Demand (BOD) – The amount of oxygen used when organic matter undergoes decomposition by microorganisms. Testing for BOD is done to assess the amount of organic matter in water.

Biosolids – Biosolids are nutrient rich organic and highly treated solid materials produced by the sewer treatment process. This high-quality product can be used as a soil amendment on farm land or further processed as an earth-like product for commercial and home gardens to improve and maintain fertile soil and stimulate plant growth.

Catch Basin – A chamber usually built at the curb line of a street, which conveys surface water for discharge into a storm sewer.

Capital Improvement Program (CIP) – Projects for repair, rehabilitation, and replacement of assets. Also includes treatment improvements, additional capacity, and projects for the support facilities.

Collector Sewer – The first element of a wastewater collection system used to collect and carry wastewater from one or more building sewer laterals to a main sewer.

Coliform Bacteria – A group of bacteria found in the intestines of humans and other animals, but also occasionally found elsewhere and is generally used as an indicator of sewage pollution.

Combined Sewer Overflow – The portion of flow from a combined sewer system, which discharges into a water body from an outfall located upstream of a wastewater treatment plant, usually during wet weather conditions.

Combined Sewer System– Generally older sewer systems designed to convey both sewage and storm water into one pipe to a wastewater treatment plant.

Conjunctive Use - The coordinated management of surface water and groundwater supplies to maximize the yield of the overall water resource. Active conjunctive use uses artificial recharge, where surface water is intentionally percolated or injected into aquifers for later use. Passive conjunctive use is to simply rely on surface water in wet years and use groundwater in dry years.

Consumer Confidence Report (CCR) - see Annual Water Quality Report.

Cross-Connection - The actual or potential connection between a potable water supply and a non-potable source, where it is possible for a contaminant to enter the drinking water supply.

Disinfection By-Products (DBPs) - The category of compounds formed when disinfectants in water systems react with natural organic matter present in the source water supplies. Different disinfectants produce different types or amounts of disinfection byproducts. Disinfection byproducts for which regulations have been established have been identified in drinking water, including trihalomethanes, haloacetic acids, bromate, and chlorite

Drought - a period of below average rainfall causing water supply shortages.

Dry Weather Flow – Flow in a sanitary sewer during periods of dry weather in which the sanitary sewer is under minimum influence of inflow and infiltration.

Fire Flow - The ability to have a sufficient quantity of water available to the distribution system to be delivered through fire hydrants or private fire sprinkler systems.

Gallons per Capita per Day (GPCD) - A measurement of the average number of gallons of water use by the number of people served each day in a water system. The calculation is made by dividing the total gallons of water used each day by the total number of people using the water system.

Groundwater Basin - An underground body of water or aquifer defined by physical boundaries.

Groundwater Recharge - The process of placing water in an aquifer. Can be a naturally occurring process or artificially enhanced.

Hard Water - Water having a high concentration of minerals, typically calcium and magnesium ions.

Hydrologic Cycle - The process of evaporation of water into the air and its return to earth in the form of precipitation (rain or snow). This process also includes transpiration from plants, percolation into the ground, groundwater movement, and runoff into rivers, streams and the ocean; see Water cycle.

Infiltration – Water other than sewage that enters a sewer system and/or building laterals from the ground through defective pipes, pipe joints, connections, or manholes. Infiltration does not include inflow. See *Inflow*.

Inflow - Water other than sewage that enters a sewer system and building sewer from sources such as roof vents, yard drains, area drains, foundation drains, drains from springs and swampy areas, manhole covers, cross connections between storm drains and sanitary sewers, catch basins, cooling towers, storm waters, surface runoff, street wash waters, or drainage. Inflow does not include infiltration. See *Infiltration*.

Inflow / Infiltration (I/I) – The total quantity of water from both inflow and infiltration.

Mains, Distribution - A network of pipelines that delivers water (drinking water or recycled water) from transmission mains to residential and commercial properties, usually pipe diameters of 4" to 16".

Mains, Transmission - A system of pipelines that deliver water (drinking water or recycled water) from a source of supply the distribution mains, usually pipe diameters of greater than 16".

Meter - A device capable of measuring, in either gallons or cubic feet, a quantity of water delivered by the District to a service connection.

Overdraft - The pumping of water from a groundwater basin or aquifer in excess of the supply flowing into the basin. This pumping results in a depletion of the groundwater in the basin which has a net effect of lowering the levels of water in the aquifer.

Peak Flow – The maximum flow that occurs over a specific length of time (e.g., daily, hourly, instantaneously).

Pipeline - Connected piping that carries water, oil or other liquids. See Mains, Distribution and Mains, Transmission.

Point of Responsibility, Metered Service - The connection point at the outlet side of a water meter where a landowner's responsibility for all conditions, maintenance, repairs, use and replacement of water service facilities begins, and the District's responsibility ends.

Potable Water - Water that is used for human consumption and regulated by the California Department of Public Health.

Pressure Reducing Valve - A device used to reduce the pressure in a domestic water system when the water pressure exceeds desirable levels.

Pump Station - A drinking water or recycled water facility where pumps are used to push water up to a higher elevation or different location.

Reservoir - A water storage facility where water is stored to be used at a later time for peak demands or emergencies such as fire suppression. Drinking water and recycled water systems will typically use concrete or steel reservoirs. The State Water Project system considers lakes, such as Shasta Lake and Folsom Lake to be water storage reservoirs.

Runoff - Water that travels downward over the earth's surface due to the force of gravity. It includes water running in streams as well as over land.

Sanitary Sewer System - Sewer collection system designed to carry sewage, consisting of domestic, commercial, and industrial wastewater. This type of system is not designed nor intended to carry water from rainfall, snowmelt, or groundwater sources. See *Combined Sewer System*.

Sanitary Sewer Overflow – Overflow from a sanitary sewer system caused when total wastewater flow exceeds the capacity of the system. See *Combined Sewer Overflow*.

Santa Ana River Interceptor (SARI) Line – A regional brine line designed to convey 30 million gallons per day of non-reclaimable wastewater from the upper Santa Ana River basin to the sewer treatment plant operated by Orange County Sanitation District.

Secondary Treatment – Biological sewer treatment, particularly the activated-sludge process, where bacteria and other microorganisms consume dissolved nutrients in wastewater.

Supervisory Control and Data Acquisition (SCADA) - A computerized system which provides the ability to remotely monitor and control water system facilities such as reservoirs, pumps and other elements of water delivery.

Service Connection - The water piping system connecting a customer's system with a District water main beginning at the outlet side of the point of responsibility, including all plumbing and equipment located on a parcel required for the District's provision of water service to that parcel.

Sludge – Untreated solid material created by the treatment of sewage.

Smart Irrigation Controller - A device that automatically adjusts the time and frequency which water is applied to landscaping based on real-time weather such as rainfall, wind, temperature and humidity.

Special District - A political subdivision of a state established to provide a public services, such as water supply or sanitation, within a specific geographic area.

Surface Water - Water found in lakes, streams, rivers, oceans or reservoirs behind dams.

Total Suspended Solids (TSS) – The amount of solids floating and in suspension in water or sewage.

Transpiration - The process by which water vapor is released into the atmosphere by living plants.

Trickling Filter – A biological secondary treatment process in which bacteria and other microorganisms, growing as slime on the surface of rocks or plastic media, consume nutrients in primary treated sewage as it trickles over them.

Underground Service Alert (USA) - A free service that notifies utilities such as water, telephone, cable and sewer companies of pending excavations within the area (dial 8-1-1 at least 2 working days before you dig).

Urban Runoff - Water from city streets and domestic properties that typically carries pollutants into the storm drains, rivers, lakes, and oceans.

Valve - A device that regulates, directs or controls the flow of water by opening, closing or partially obstructing various passageways.

Wastewater – Any water that enters the sanitary sewer.

Water Banking - The practice of actively storing or exchanging in-lieu surface water supplies in available groundwater basin storage space for later extraction and use by the storing party or for sale or exchange to a third party. Water may be banked as an independent operation or as part of a conjunctive use program.

Water cycle - The continuous movement water from the earth's surface to the atmosphere and back again; see Hydrologic cycle.

Water Pressure - Pressure created by the weight and elevation of water and/or generated by pumps that deliver water to the tap.

Water Service Line - The pipeline that delivers potable water to a residence or business from the District's water system. Typically the water service line is a 1" to 1½" diameter pipe for residential properties.

Watershed - A region or land area that contributes to the drainage or catchment area above a specific point on a stream or river.

Water Table - The upper surface of the zone of saturation of groundwater in an unconfined aquifer.

Water Transfer - A transaction, in which a holder of a water right or entitlement voluntarily sells/exchanges to a willing buyer the right to use all or a portion of the water under that water right or entitlement.

Water Well - A hole drilled into the ground to tap an underground water aquifer.

Wetlands - Lands which are fully saturated or under water at least part of the year, like seasonal vernal pools or swamps.

Wet Weather Flow – Dry weather flow combined with stormwater introduced into a combined sewer system, and dry weather flow combined with infiltration/inflow into a separate sewer system.





COMMONLY USED ABBREVIATIONS

| | |
|------------------|---|
| AQMD | Air Quality Management District |
| BOD | Biochemical Oxygen Demand |
| CARB | California Air Resources Board |
| CCTV | Closed Circuit Television |
| CWA | Clean Water Act |
| EIR | Environmental Impact Report |
| EPA | U.S. Environmental Protection Agency |
| FOG | Fats, Oils, and Grease |
| GPD | Gallons per day |
| MGD | Million gallons per day |
| O & M | Operations and Maintenance |
| OSHA | Occupational Safety and Health Administration |
| POTW | Publicly Owned Treatment Works |
| PPM | Parts per million |
| RWQCB | Regional Water Quality Control Board |
| SARI | Santa Ana River Inceptor |
| SAWPA | Santa Ana Watershed Project Authority |
| SBVMWD | San Bernardino Valley Municipal Water District |
| SCADA | Supervisory Control and Data Acquisition system |
| SSMP | Sanitary Sewer Management Plan |
| SSO | Sanitary Sewer Overflow |
| SWRCB | State Water Resources Control Board |
| TDS | Total Dissolved Solids |
| TMDL | Total Maximum Daily Load |
| TSS | Total Suspended Solids |
| WDR | Waste Discharge Requirements |
| YVWD | Yucaipa Valley Water District |