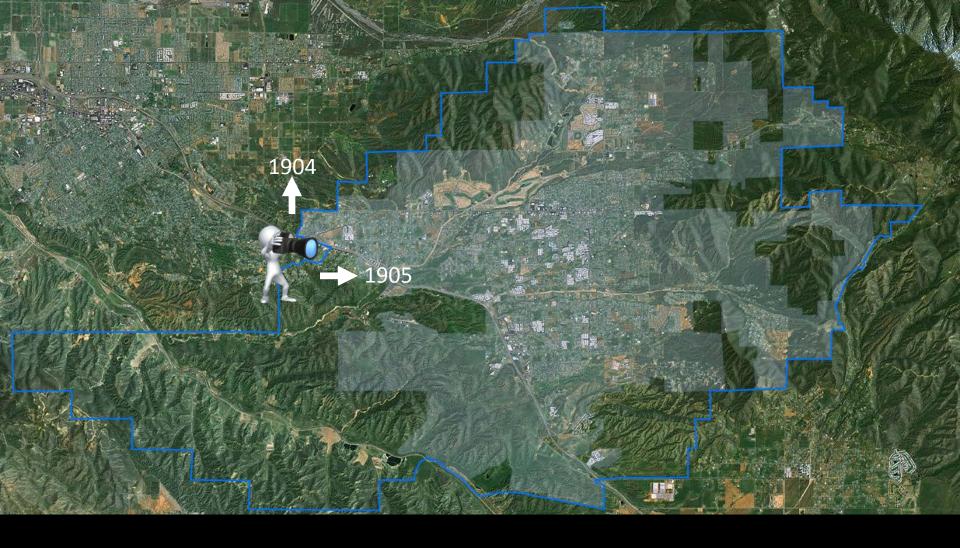


The Future Use of Recycled Water in Yucaipa Valley Water District's Service Area

Joseph Zoba, General Manager Yucaipa Valley Water District

Tuesday, January 10, 2017





View of the Redlands and the San Bernardino Valley – 1904

Source: W. C. Mendenhall, USGS



View of the Yucaipa Valley – 1905

Source: W. C. Mendenhall, USGS

LOS ANGELES HERALD: TUESDAY MORNING, APRIL 19, 1910.



Men Charged with Gun Play Are **Prosecuting Complainant** for Perjury

After postponements and continuances for a period covering two years, the trial of F. M. Bell on the charge of perjury was commenced ' before Judge Davis yesterday, the main witnesses for the prosecution being O. P. Widaman and A. R. Sanger. Two nesses for the prosecution being O. F. Widaman and A. R. Sanger. Two years ago they were arrested on the charge of assaulting Bell with deadly weapons in a room of the Hollenbeck hotel, the charges being subsequently dropped and Bell being charged with get her story of the affair.

PROTESTS IN ANNANDALE

of supervisors yesterday morning by residents of the Annandale school dis-trict for annexation to Los Angeles for

horio, the charges being subsequently dropped and Bell being charged with periors.
dropped and Bell being charged with the story of the atternowns on the stand most of the atternowns on and told his story of the theorem of the stand that bell had drawn two pistois on him and that neither he must be the stand of the stand of the story of the story of the stand of the story of

other in the drawer and we grabbed that also." Widaman said that no attempt was made to injure Bell, but that when the police were notified of the shoct. Bell swore that the two had tried to shoct him. Bell then swore out a complained against them, he find justice courts. Several other witnesses were called, but the court adjourned the trial un-til this morning.

NEWSPAPERS OPPOSE EVENING NEWS' OFFER

Establishment of Paper's Standing Fought by Publishers

A lively contest developed in Judge Wilher's court yesterday attending of P. C. shoe-to the sentencing of P. C. shoet and the sentencing of P. C. shoet court yesterday to sentencing of P. C. shoet court yesterday to sentencing of P. C. shoet court yesterday to be the sentencing of P. C. shoet attending of the Los Ansels April 25. The prinoner will be given agother chance provided there is a shoeting. Proprietors of the San Pedro News and the

Proprietors of the San Pedro News and the Los Angeles Journal were present and opposed giving the Evening News any standing on the ground that it had no bona fide circulation. The city printing contract, which was recently awarded to the Evening News, was the real which he pleaded guilty, was placed on three years' probation by Judge Willis yesterday, the court refusing to send bone of contention, and the representatives of

the other newspapers, by an attempt to block the establishing of a status for the evening newspaper, hope to get a chance at the city Joseph Mesmer, owner of the Evening News, oned by the other two news-



old Hazel Nichols, a Los Angeles school girl, mounted the witness stand in Justice Summerfield's court yester-day at the preliminary examination of Dr. C. Jarvis, charged with her mis-treatment, and under the careful guid-ance of attorneys for the prosecution unwillingly told of her viso. At the dentiat's not her story Jarvis was held on answer to the superior court in

conclusion of her story Jarvis was held to answer to the superior court in bonds of \$2000. The charge was the second to be lodged against Jarvis in several movies. He is not superior to a similar charge under bonds of \$1000. Hazel Nichols said she was intro-duced to Dr. Jarvis on the street by another girl friend her own age, who told her he was a good dentist. She he is said to have mistreated her. The irit seemed unwilling to testify against Charles Frost and others can have a portion of Council street that is not of any public benefit, but Mr. Frost and any public benefit, but Mr. Freit and others will have to do certain tilings in considered the second second second the second second second second second the second second second second second and 27 of subdivision No. 2 of Forest park for the extension of Common-wealth avenue from the north line of Council street to the north line of the girl seemed unwilling to testify against the man and it was with considerable difficulty that the court was able to

Under Conditions

They will have to improve Common wheth average to improve Commis-wealth average from First street north by constructing brick pavements and cement guiters, curbs and sidewalks. They will have to improve Council street from the west line of Common-wealth in the same manner. SCHOOL ROW ARE FILED

wealth in the same manner. This is the report the board of pub-lis works will make to the city council today. Last week Mr. Frost petitioned the council to abandon a portion of Council street that is not in use and the council sent the petition to the

the 'council sent the petition to the board of public works. The board is forming a habit of de-manding something in exchange for portions of the city's domain. The former council seldom referred these matters to the board of public works, but abandoned streets and alleys in a reckless manner without charge. The new council has exacted as high

trict for annexation to Los Angeles for school purposes only. Another petition was also presented by other residents request. The Los Angeles school board the application on the ground that it already has all the territory it can han-dle at the present time. The supervisors discussed the peti-tions for a short line and laid them on the table indefinitely. In view of the is to yote on annexation to Los Angeles as \$5000 for the abandonment of a por tion of a street that was of no value except to the person asking the favor.

SILENT OPPOSES PAYING **S10,000 FOR PARK LEASE**

Payment on Demand for Agricul-

The demand for \$10,600 for the lease of Agricultural park for fity years did of the members of the park commis-sion yesterday, especially Judge Silent, and payment on the demand was with-held until the Judge can make a thorough examination of the lease...

thorough examination of the lease. The \$1,000 must be paid by the park department, although it will not come general expense fund to the credit of the park fund, to be used for this pur-pose. But Judge Silent does not want the boles of the departed to show this payment unless they also show that the city receives some adequate com-pensation.

C. Torez, charged with burglary, to

pensation. Judge Silent would like to have the park commission have something to say about how the money is to be spent in Agricultural park. The park is under the control of the Sixth District Agricultural association, and any plans yeservary, the court returning the charges the city may make must first be ap-made against hih. Torez was ac-proved by that body before they can be excued of entering the Finsar rooming exceuted. house and excharging his old shoes and a hat for similar articles in much park one of the most charming recrea-



Yucaipa Valley

Has Unlimited Water Supply

The Redlands and Yucaipa Land company has recently closed a deal with the South Mountain Water company, giving them in addition to their already large water supply all of the water in Potato canyon formerly owned by the South Mountain Water company, at present flowing nearly 200 inches, having an estimated value of \$200,000, a \$30,000 pipe line and \$60,000 worth of additional high-grade apple land.

THIS is one of the most important water deals ever consummated in the state and makes the Yucaipa valley . one of the best watered valleys in the state.

Those who have already bought land in the valley will get the benefit of this deal without one dollar additional expense. The prices of land will remain the same for a short time, until the company completes its 20-inch pipe line, now in process of building, to carry this water to the new apple orchards and Yucaipa City townsite.

Get in touch with the Yucaipa Valley project, the most active and best selling land project in the west. First, last and all the time, we ask you to visit the Yucaipa Valley and see for yourself a body of land comprising 11,000 acres that is as near perfect for pleasant and profitable homes as it is possible to find anywhere on earth. We court the strictest possible investigation of the soil, water and climatic conditions. The soil is especially adapted for apples and all other deciduous fruits, and all kinds of vegetables.

Over \$50,000 worth of big red apples were shipped out of the Yucaipa valley last year. For years past, this portion of land has been rented for truck farms at an annual rental of \$25 per acre per year, thus giving you a comprehensive idea of how profitably this class of farming can be conducted.

The Yucaipa valley is surrounded by mountains, affording absolute protection from the winds that are so prevalent in some sections of the country. The altitude is over 2000 feet and the climatic conditions are perfect.

It is a difficult matter for us to convey to you in an advertisement the beauties of climate and scenery, and the exceptional attractiveness of the Yucaipa valley, but we urge you to visit us and draw your conclusions from an unprejudiced standpoint. For homeseekers, or for investment, the opportunities in the Yucaipa valley are exceptional.

What We Have Done

The Official Opening of the Yucaipa valley occurred February 8 of this year. Since that time a portion of the land has been platted and a great many tracts sold. Over 200 acres of apples have already been planted by purchasers. The town of Yucaipa City has been laid out, palms and trees planted, streets graded and other improvements made. Water has been piped to all of the land sold. A modern 30-room hotel has been constructed and will be formally opened April 20. Several storerooms have been constructed; a part of them are occupied and others will be occupied soon.

What We Will Do

In addition to what has already been accomplished in laying out and establishing the townsite and subdivision No. 1, the company is now installing a permanent 20-inch pipe line to carry the Potato Canyon water recently acquired from the South Mountain Water company to a portion of the land. This pipe line will soon be com-pleted. A large reservoir will be built to store this water. Other portions of the land will be platted shortly, and it is the intention to construct a line of railroad from Redlands to the valley, thus affording quick transpor-

is to vote on annexation to Los Angeles for all purposes in the near future. DENIES PROBATION TO **NOTORIOUS PICKPOCKET**

Probation was refused Charles Lewis yesterday by Judge Davis, and he was sentenced to three years in San Quen-tin, the prosecution introducing evi-dence that Lewis has quite a previous

A petition was presented to the board

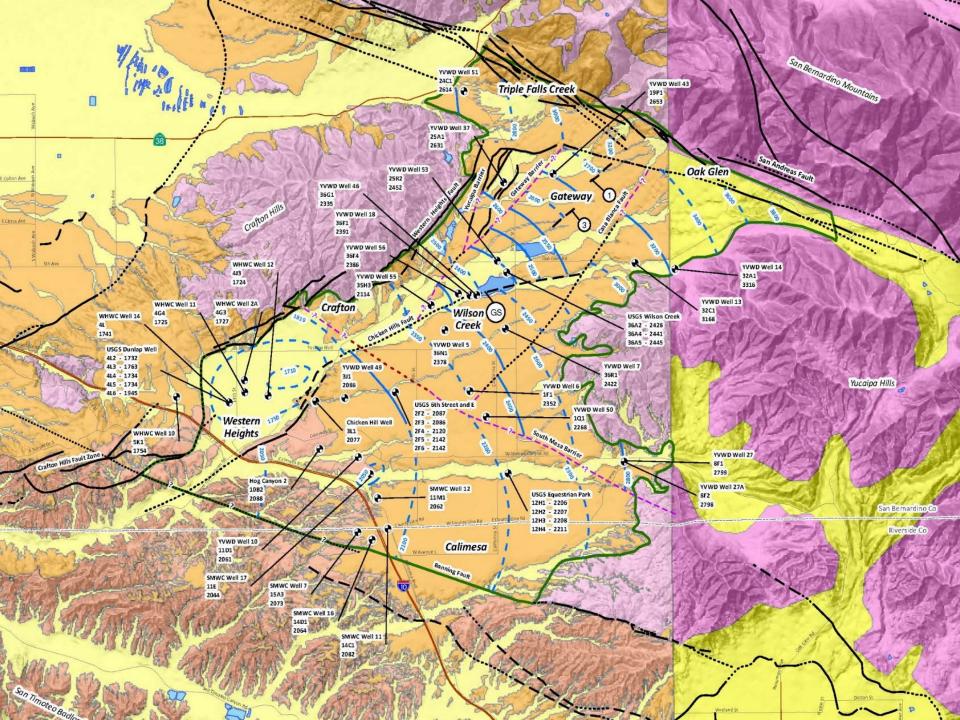
record as a pickpocket in various parts of the country. Lewis was charged by Charles Die-trich with picking his pocket and tak-ing \$80 at Long Beach last summer. Dietrich chased him, and when caught District chases him, and when caught Lee's endeavored to avoid prosecution by returning the money. A criminal complaint was sworn out against him, however, and he will spend the next three years in prison.

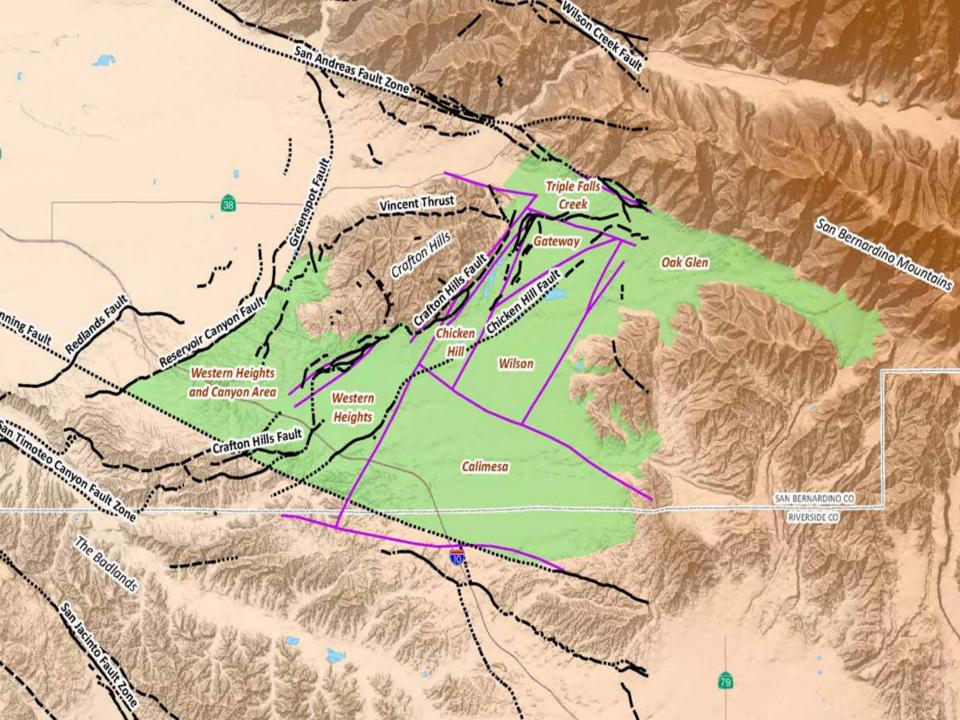
WILL TRY DRINK CURE To give the criminal court's special brand of "liquor cure" time to soak into his system, to make sure that it is given a good chance to become ef-fective, the sentencing of F. C. Shoe-

work.

GIVEN ANOTHER CHANCE

tural Square Is Held Up by the Board



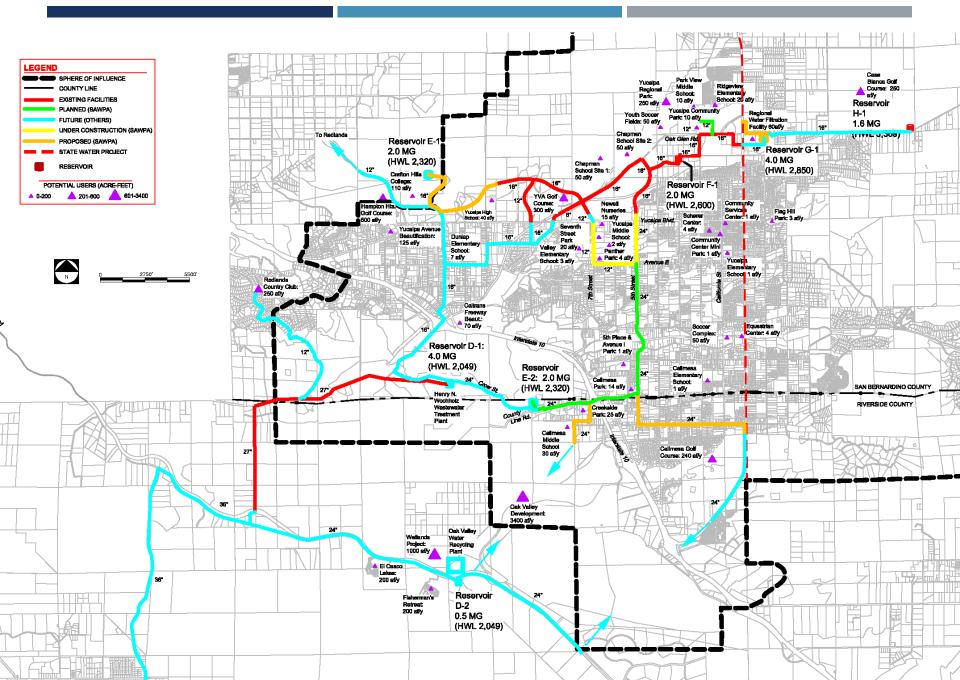


YUCAIPA VALLEY WATER DISTRICT

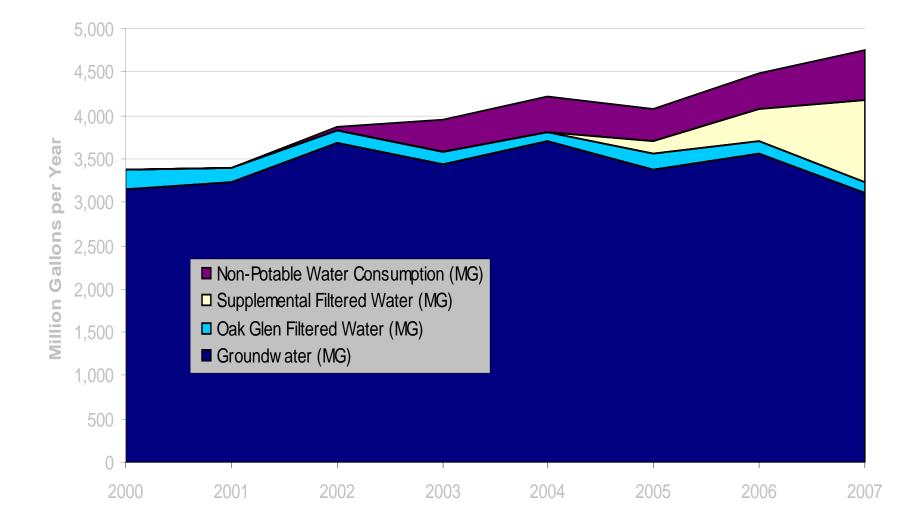
Integrating Infrastructure for a Sustainable Future

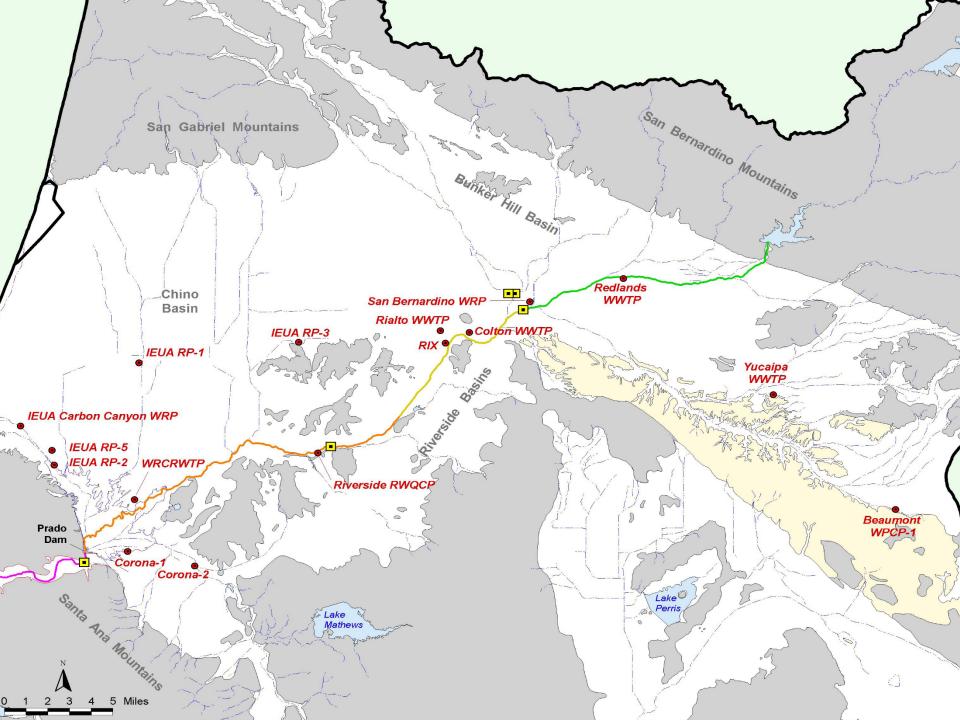


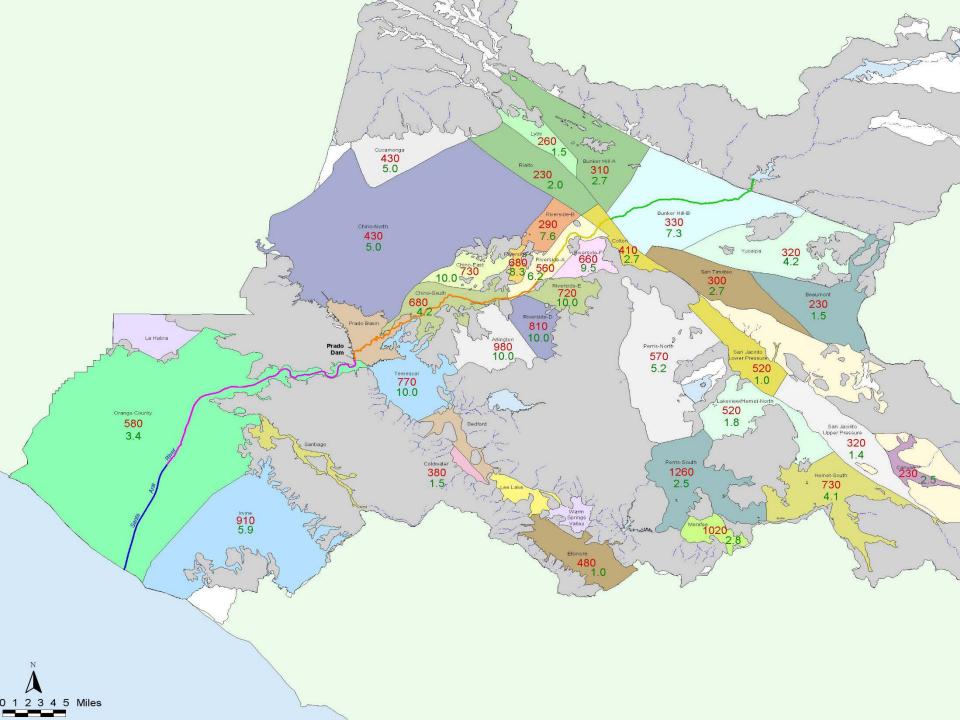
Yucaipa Valley Water District - Recycled Water Distribution System

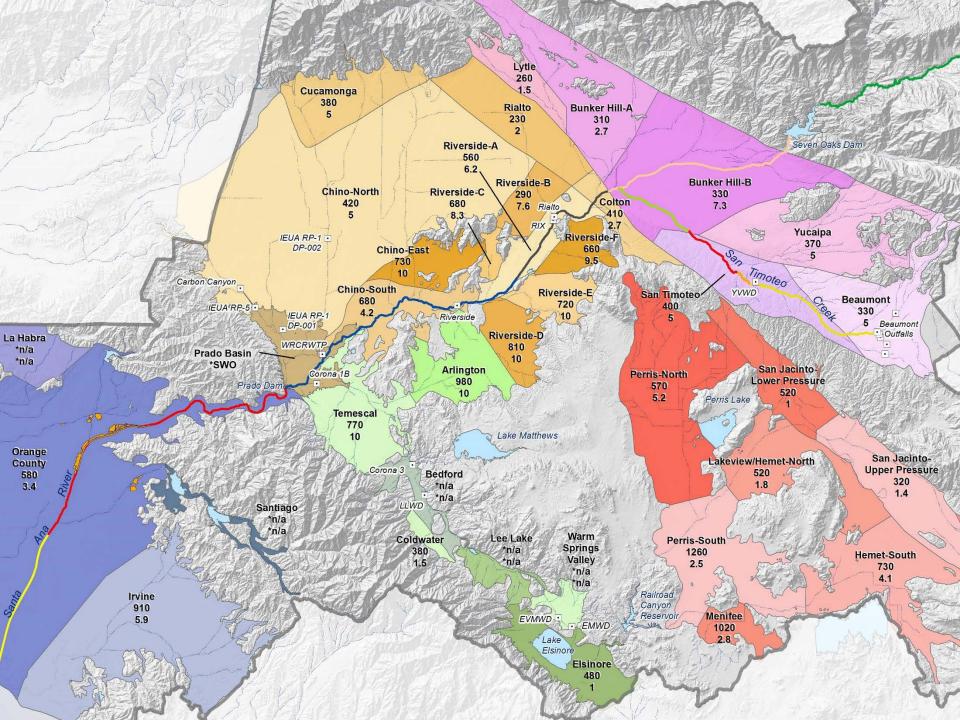


WATER RESOURCE MIX

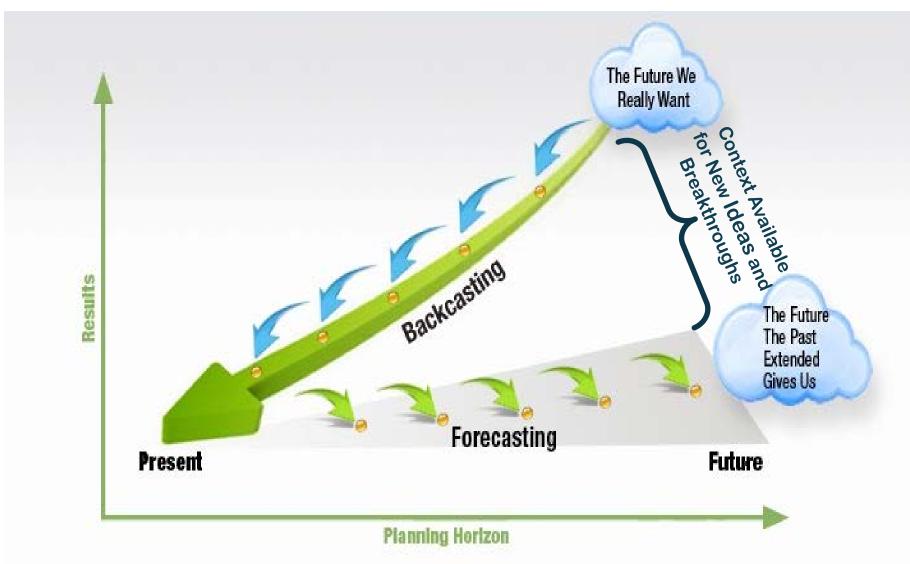




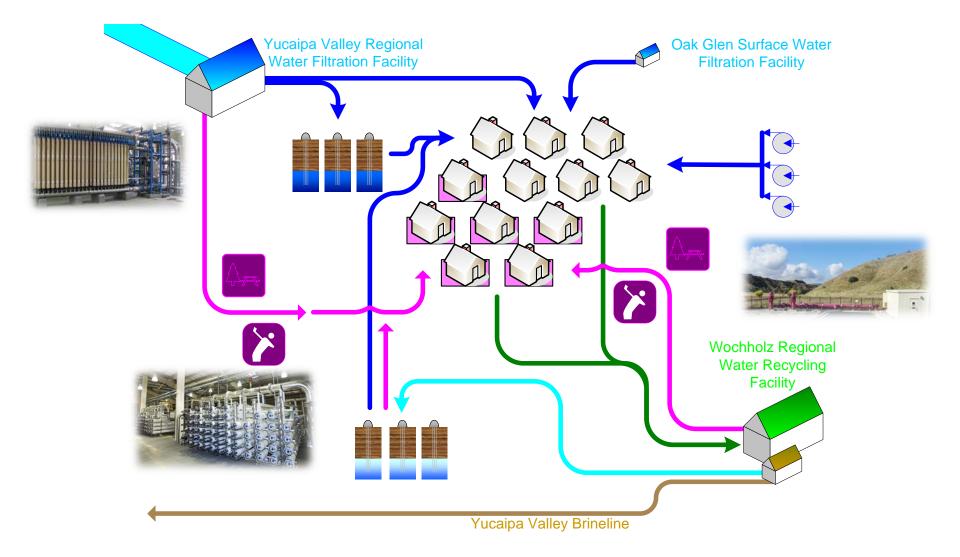




Backcasting

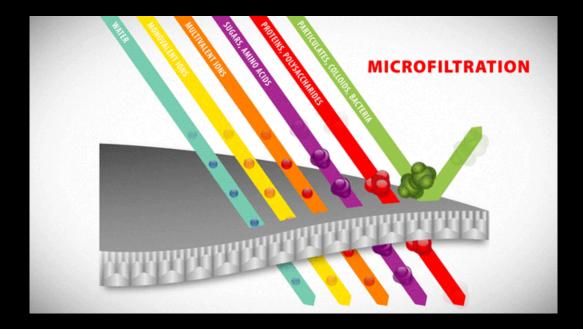


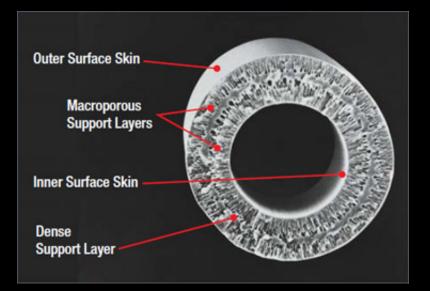
Water Resource Management Schematic for the Yucaipa Valley Water District



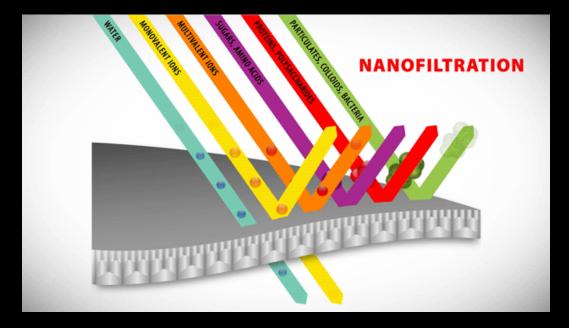


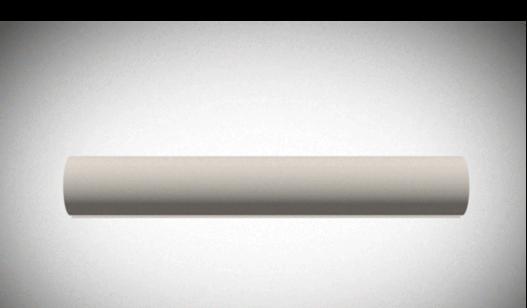


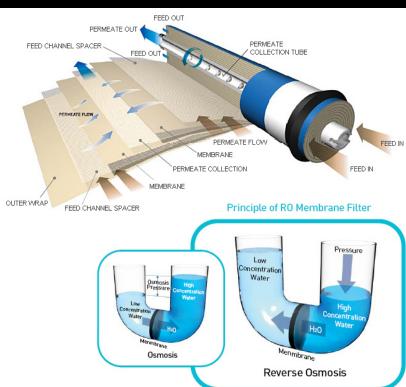


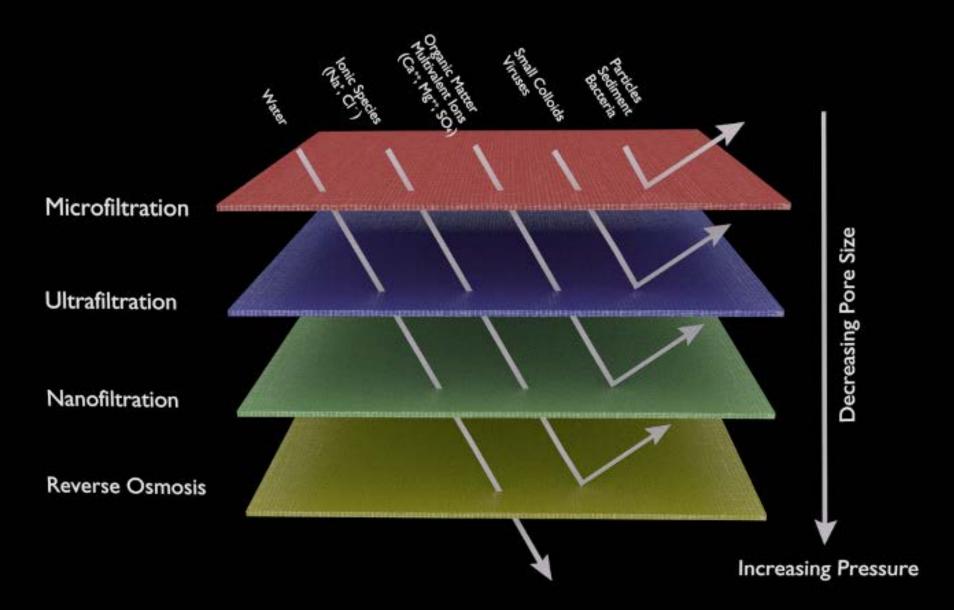




















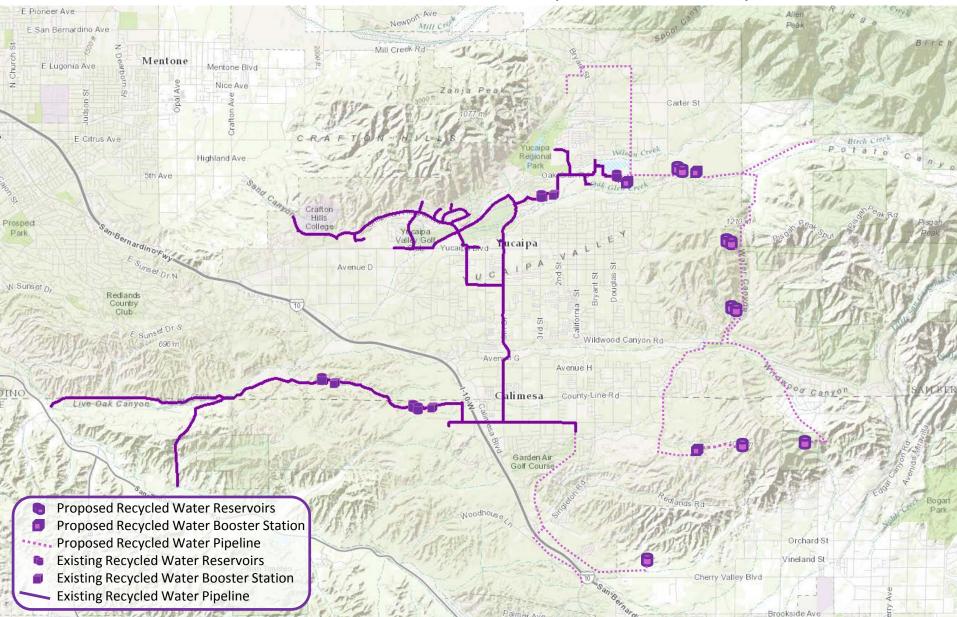






Integrated Recycled Water and Drought Management Project

Proposed Phase IV Recycled Water Facilities



YUCAIPA VALLEY WATER DISTRICT New Constraints and Obstacles

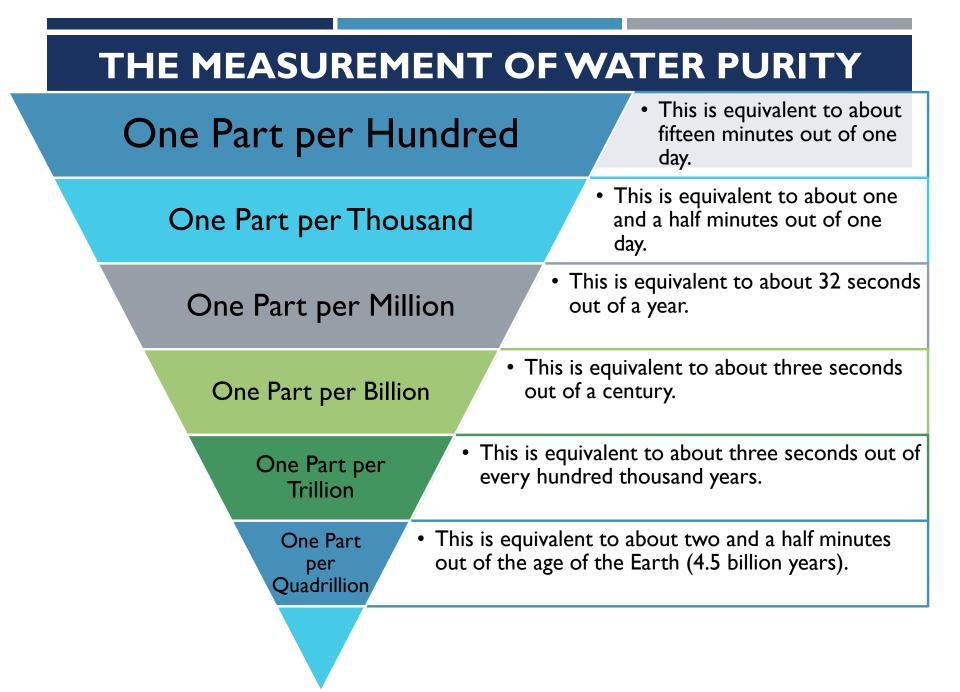


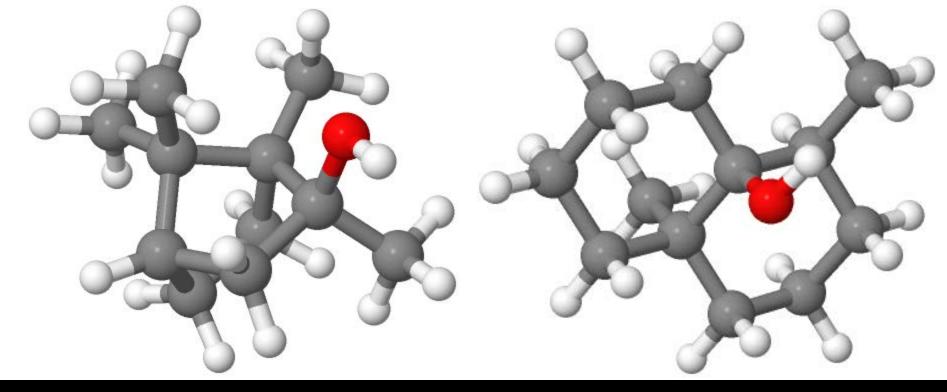




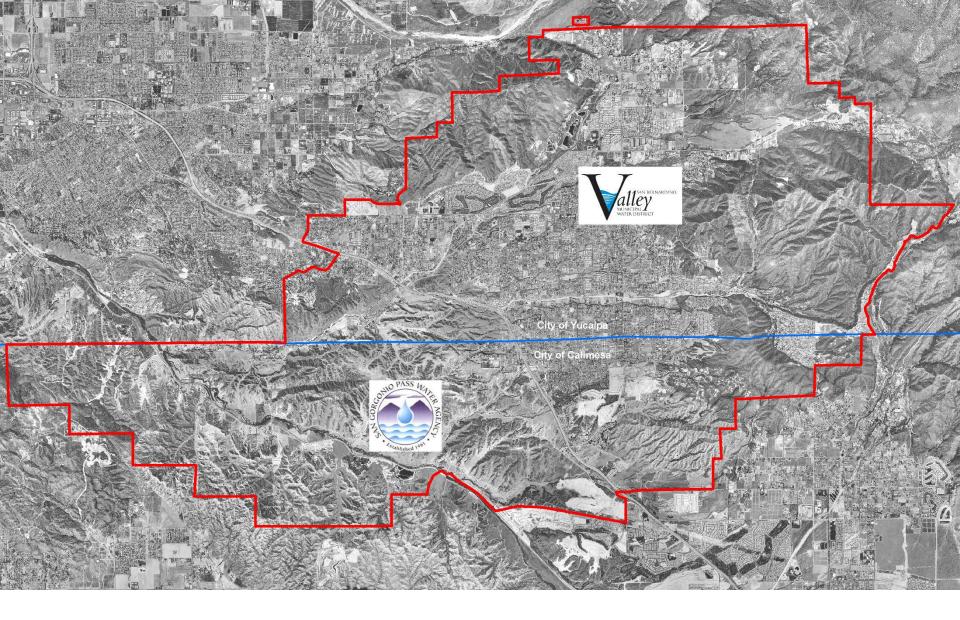








2-Methylisoborneol C₁₁H₂₀O Geosmin C₁₂H₂₂0



California State Water Project Contractors Maximum Table A Amounts (January 2016) San Gorgonio Pass Water Agency (17,300 acre feet or 0.4%) San Bernardino Valley Municipal Water District (102,600 acre feet or 2.5%)

- The Metropolitan Water District of Southern California
- Antelope Valley-East Kern Water Agency
- San Bernardino Valley Municipal Water District
- Castaic Lake Water Agency
- Mojave Water Agency
- Desert Water Agency
- Santa Barbara County Flood Control & Water Conservation District
- Alameda County Water District
- San Gabriel Valley Municipal Water District
- San Luis Obispo County Flood Control & Water Conservation District
 Palmdale Water District
- Ventura County Watershed Protection District
- City of Yuba
- Crestline-Lake Arrowhead Water Agency
- Empire West Side Irrigation District

- Kern County Water Agency
- Coachella Valley Water District
- Santa Clara Valley Water District
- Tulare Lake Basin Water Storage District
- Alameda County Flood Control & Water Conservation District, Zone 7
- Solano County Water Agency
- Dudley Ridge Water District
- Napa County Flood Control & Water Conservation District
- County of Butte
- San Gorgonio Pass Water Agency
- County of Kings
- Oak Flat Water District
- Plumas County Flood Control & Water Conservation District

Annual Water Quantities Delivered to the San Gorgonio Pass Water Agency (AF)

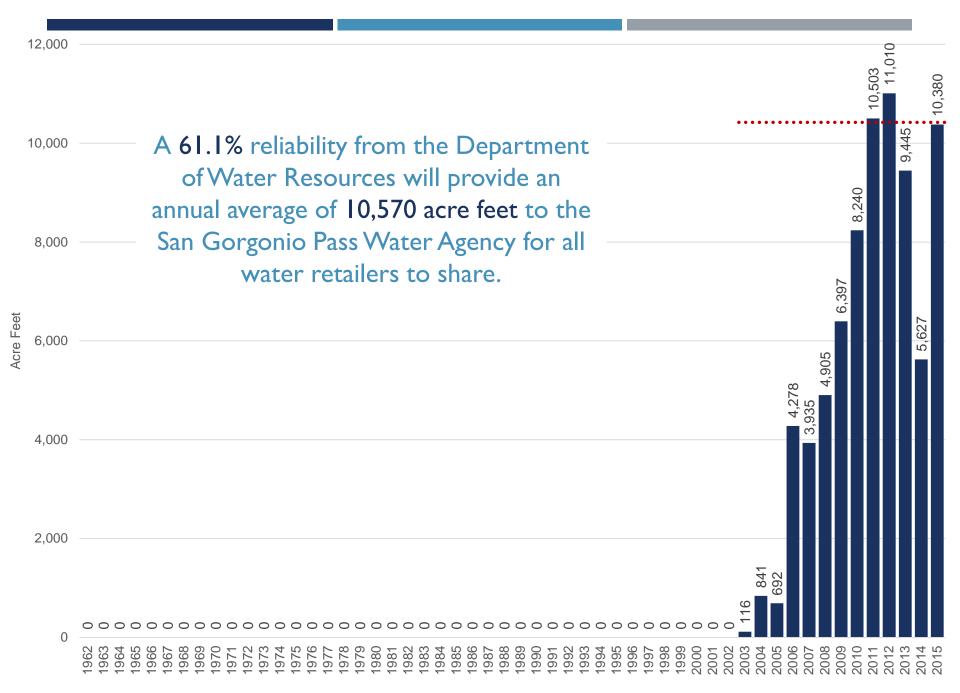
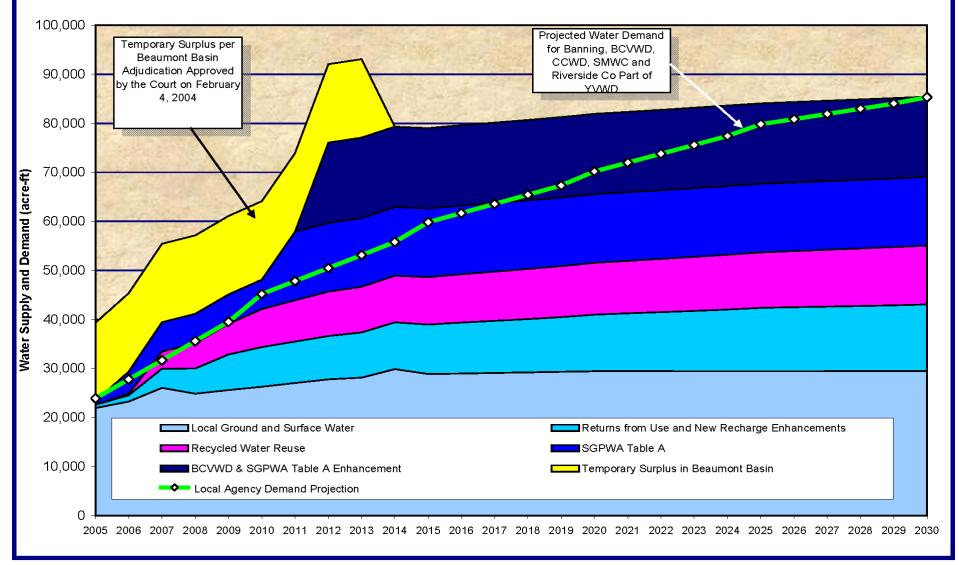
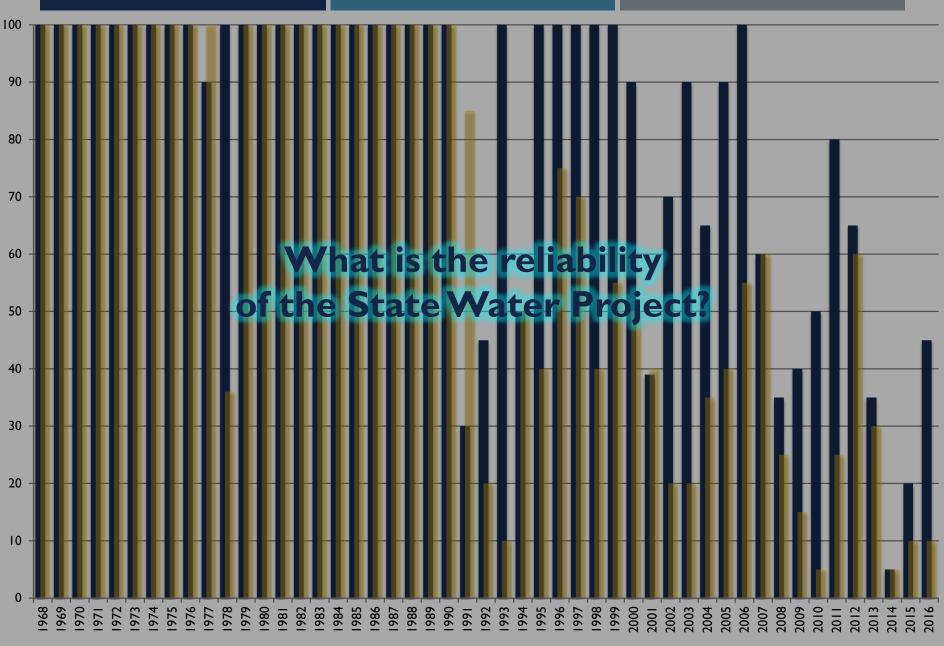


Figure 3 – Projected Water Supply Plan and Demand for Banning, the BCVWD, the SMWC, and Riverside County Part of the YVWD Based on Planning Information Provided by these Retail Agencies



S\Clients\STVMANEY 2005_06 Task orders\Task Order 11\December 2005 Report\Final Report Docs\20060214 Letter to Spiliotis\20060227 Report Tables and Charts\-- 20060328 Consolidated Water Demand and Supply Plan.xls -- Figure 3 Created on 6/17//04 Printed

State Water Project Allocation Each Year



Estimates of SWP Table A Water Deliveries

Table 6-2 presents the annual average, maximum, and minimum estimates of SWP Table A deliveries from the Delta for existing conditions, as calculated for the 2013 and 2015 Reports. The average, maximum, and minimum Table A deliveries are relatively close in the 2013 and 2015 Reports.

	Table 6-2. Comparison of Estimated Average, Maximum, and Minimum Deliveries of SWP Table A Water (Existing Conditions, in taf/year)			
eport	Table A Water			
		2013 Report	2015 Report	

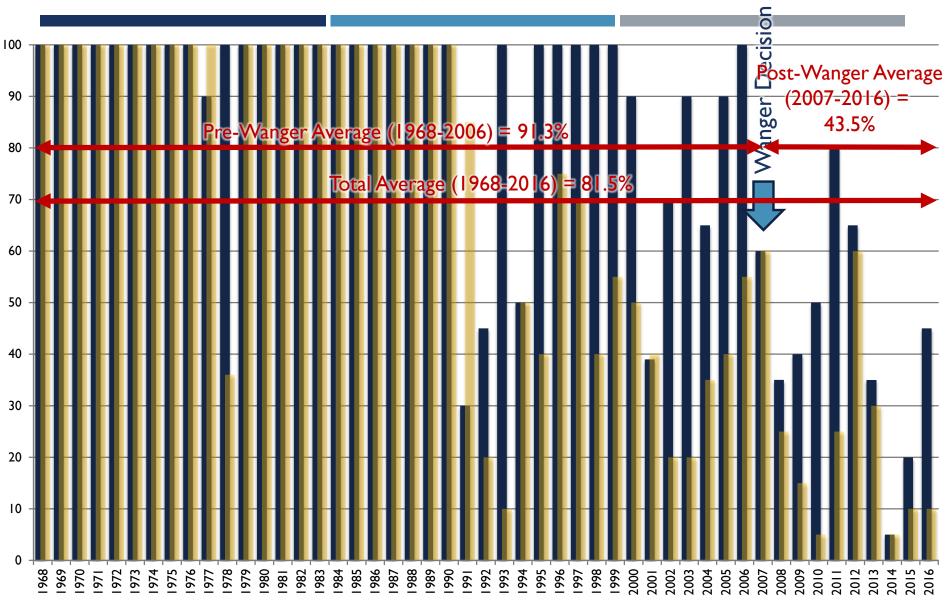
2013 Report 61.2% Reliability

	2013 Report	2015 Report
Average	2,553	2,550
Maximum	3,996	4,055
Minimum	495	454



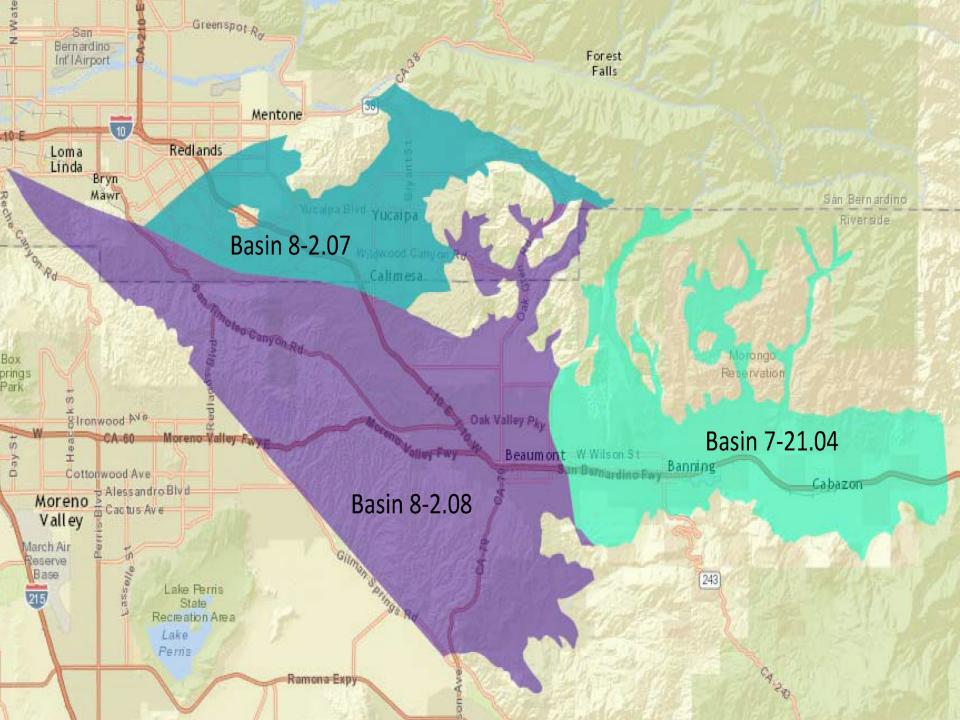
Assumptions about Table A and Article 21 water demands, along with operations for carryover water, have been updated in the model based on discussions with State Water Contractors staff and DWR's Operations and Control Office.

State Water Project Allocations Each Year



Final Allocation by DWR Initia

Initial Allocation by DWR



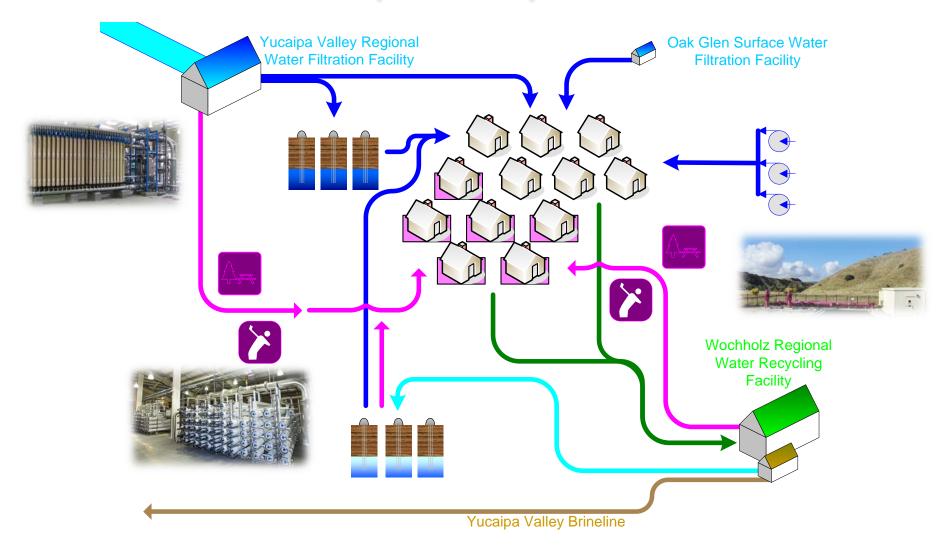
SUMMARY OF ONGOING AND ANTICIPATED WATER RESOURCE CONSTRAINTS

- Water Quality of State Water Project
- Lack of Available Imported Water Supplies San Gorgonio Pass Water Agency
- Reliability of State Water Project
- Sustainable Groundwater Management Act
- Fully Utilized Existing Local Water Resources
- State Water Resources Control Board Water Use Goals

YUCAIPA VALLEY WATER DISTRICT The Future Use of Recycled Water



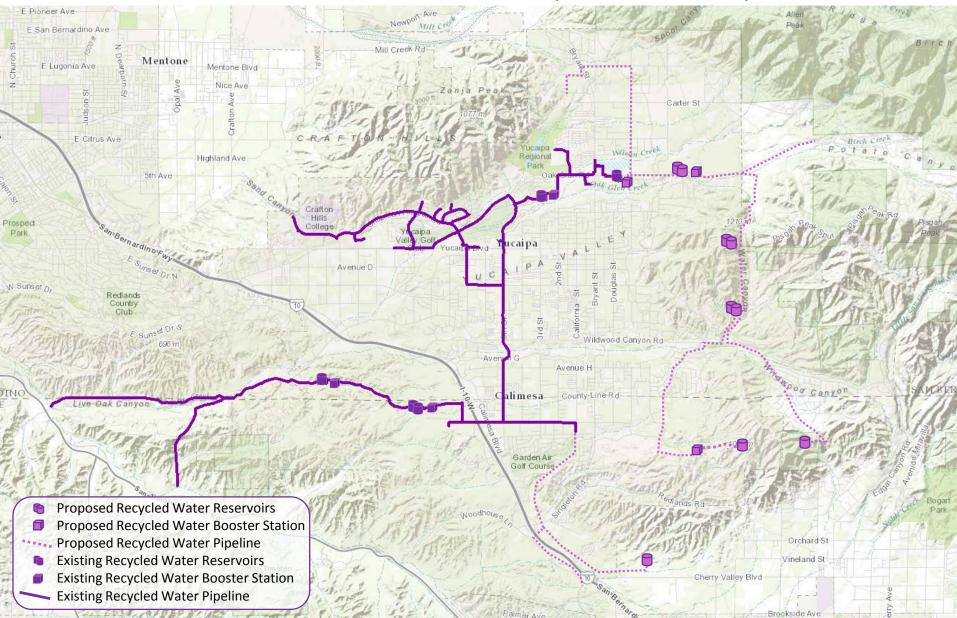
Water Resource Management Schematic for the Yucaipa Valley Water District

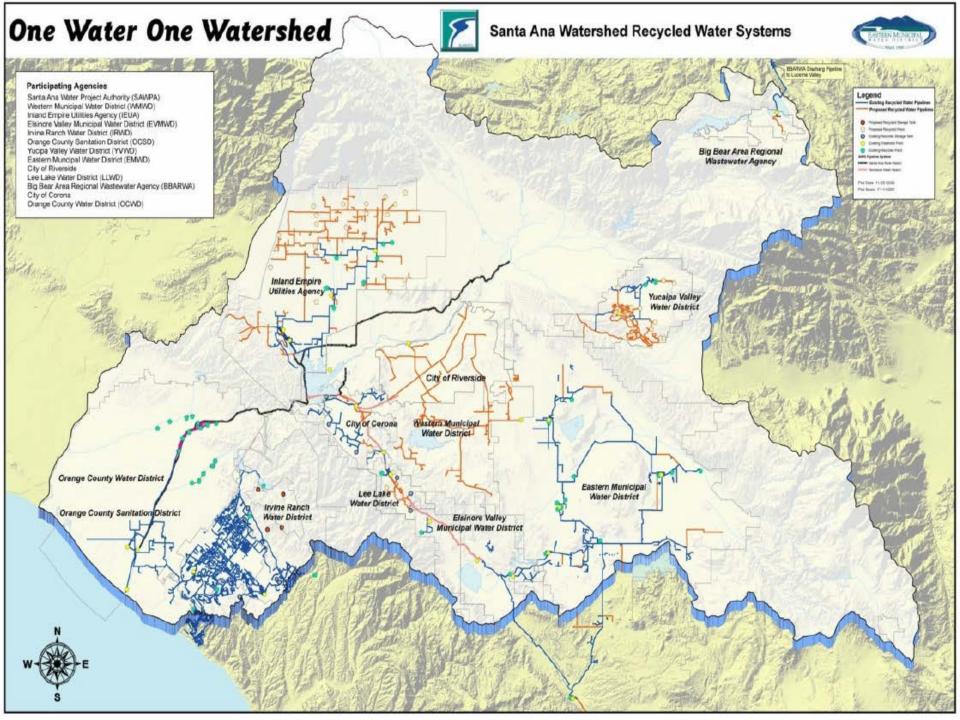




Integrated Recycled Water and Drought Management Project

Proposed Phase IV Recycled Water Facilities





Proposed Requirements for New Development

- A Facility Capacity Charge shall be paid to the San Gorgonio Pass Water Agency sufficient to guarantee permanent imported water supplies for new homes and businesses in Calimesa
- Verification of Assigned Water Rights Required Prior to Issuance of Building Permits
- New homes shall be required to be dual-plumbed for recycled water unless the Board of Directors approves a development agreement omitting this requirement.



SERRANO Respecting the Balance and Conserving Water

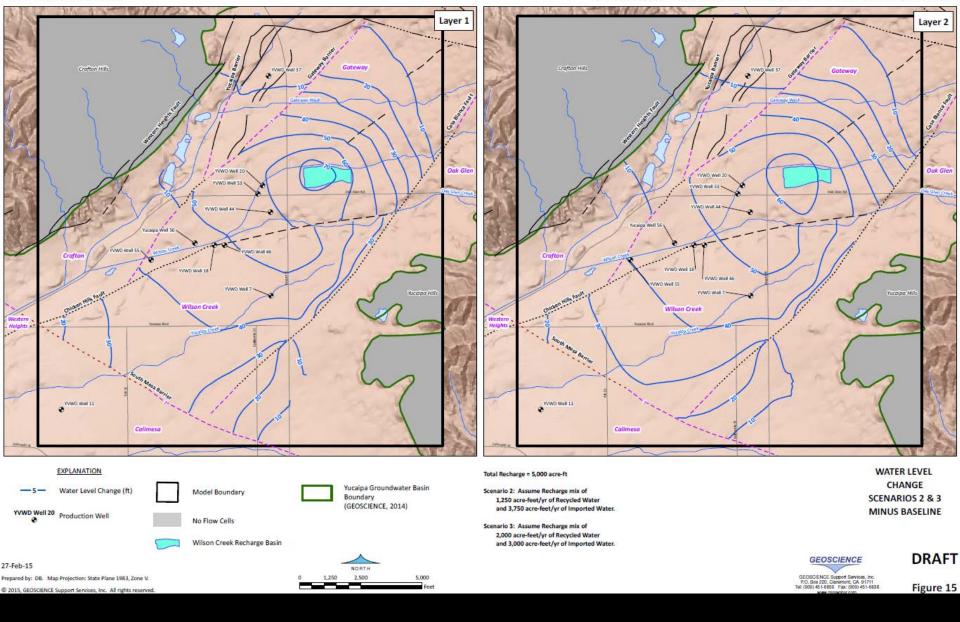
ALL FRONT AND BACKYARD LANDSCAPING IN THIS VILLAGE IS IRRIGATED WITH RECYCLED WATER

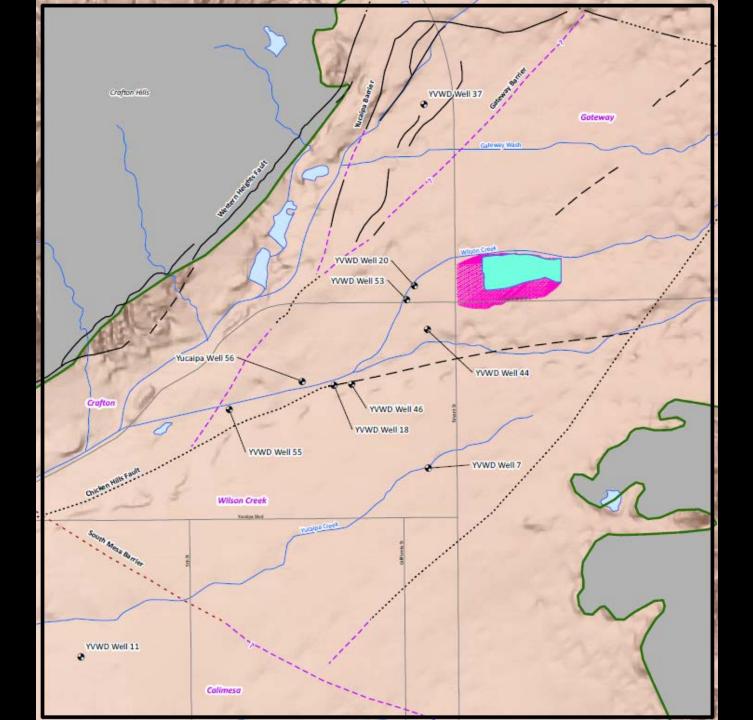


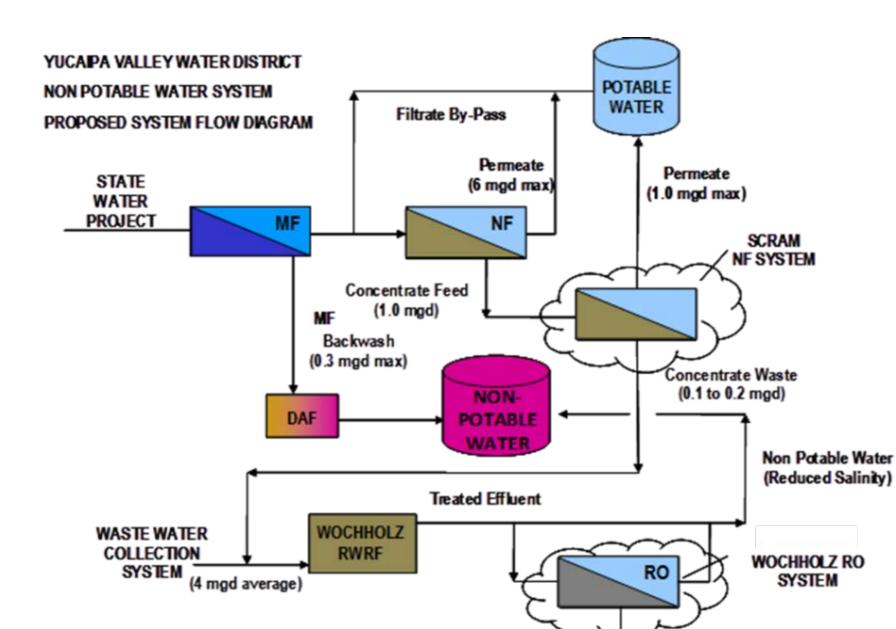


YUCAIPA VALLEY WATER DISTRICT

RECYCLED WATER USE EVALUATION USING THE GATEWAY SUBBASIN FOCUSED GROUNDWATER MODEL







INVESTIGATION ON THE FEASIBILITY OF DEVELOPING UNIFORM WATER RECYCLING CRITERIA FOR DIRECT POTABLE REUSE

STATE WATER RESOURCES CONTROL BOARD

Report to the Legislature December 2016

In Compliance with Water Code Section 13563



STATE OF CALIFORNIA Edmund G. Brown Jr., Governor

CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY Matthew Rodriquez, Secretary

STATE WATER RESOURCES CONTROL BOARD P.O. Box 100 Sacramento, CA 95812 Homepage: http://www.waterboards.ca.gov

		WWTP	
	Untreated	Effluent	
	Surface	post RO	Detection
Emerging Constituents	Water	Permeate	Limit
Sample Date	6/10/2013	6/11/2013	2013 MRL
SAWPA Taskforce List			
Caffeine	42	ND	5
DEET	ND	44	10
Diuron	96	6.2	5
Sulfamethoxazole	22	ND	5
ТСЕР	190	ND	10
Gemfibrozil	13	ND	5
SAWPA Constituents dectected	5/15	2/15	
Atenolol	88	ND	5
Azithromycin	77	ND	20
Bromacil	18	ND	5
Cimetidine	6.9	ND	5
DACT	10	5.6	5
DIA	10	ND	5
Quinoline	21	ND	5
Simazine	17	ND	5
Sulfamethoxazole	22	ND	5
Theobromine	26	ND	10
4-nonylphenol (semi-quantitative)	120	ND	100
Acesulfame-K	470	ND	20
lohexol	180	ND	10
Sucralose	760	ND	100
Total Constituents detected	18/91	3/91	

One Part per Trillion • This is equivalent to about three seconds out of every hundred thousand years.

THANK YOU

