



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

Tuesday, April 3, 2018 at 6:00 p.m.

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- 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 consent calendar matters are routine and will be acted upon in one motion. There will be no discussion of these items unless board members, administrative staff, or members of the public request specific items to be discussed and/or removed prior to the vote for approval.
  - A. Minutes of Meetings
    - 1. Regular Board Meeting - March 20, 2018
- V. **STAFF REPORT**
- VI. **DISCUSSION ITEMS**
  - A. Consideration of Resolution No. 2018-14 Authorizing the Release of Unclaimed Monies to the Yucaipa Valley Water District Pursuant to Government Code Section 50055 [[Director Memorandum No. 18-053 - Page 18 of 105](#)]  
RECOMMENDED ACTION: That the Board adopts Resolution No. 2018-14.
  - B. Consideration of a Contract with Dudek for the 2018 Groundwater and Surface Water Monitoring Related to the Yucaipa Valley Water District's Maximum Benefit Monitoring Program [[Director Memorandum No. 18-054 - Page 24 of 105](#)]  
RECOMMENDED ACTION: That the Board approves the Maximum Benefit Monitoring Program Contract with Dudek for a sum not to exceed \$93,580.
  - C. Consideration of the Proposal for the 2018 Habitat Monitoring Program Activities, Groundwater/Surface Water Data Assistance, Annual Report, and Watershed Budget Analysis [[Director Memorandum No. 18-055 - Page 35 of 105](#)]  
RECOMMENDED ACTION: That the Board authorizes the District staff to execute a contract with Dudek for a sum not to exceed \$56,340.

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Any person who requires accommodation to participate in this meeting should contact the District office at (909) 797-5117, at least 48 hours prior to the meeting to request a disability-related modification or accommodation.

Materials that are provided to the Board of Directors after the meeting packet is compiled and distributed will be made available for public review during normal business hours at the District office located at 12770 Second Street, Yucaipa. Meeting materials are also available on the District's website at [www.yvwd.dst.ca.us](http://www.yvwd.dst.ca.us)

- D. Public Hearing for the Initial Study / Mitigated Negative Declaration Related to the Maintenance of the Wilson Creek Basins and to Facilitate the Surface Recharge of Recycled Water [[Director Memorandum No. 18-056 - Page 41 of 105](#)]  
 RECOMMENDED ACTION: That the Board conducts a public hearing and consider the adoption of Resolution 2018-15 Certifying the Final Mitigated Negative Declaration for the Wilson Creek Basins Water Recharge Project.
- E. Nomination of a Regular Special District Member to the Local Agency Formation Commission for San Bernardino County [[Director Memorandum No. 18-057 - Page 74 of 105](#)]  
 RECOMMENDED ACTION: That the Board nominates an individual and directs the General Manager to submit a completed ballot to the Local Agency Formation Commission.
- F. Nomination of a Regular and Alternate Member to the San Bernardino Countywide Oversight Board [[Director Memorandum No. 18-058 - Page 80 of 105](#)]  
 RECOMMENDED ACTION: That the Board nominates a regular and alternate member and directs the General Manager to submit a completed ballot to the Local Agency Formation Commission.
- G. Consideration of Documenting the Significant Historical Events Related to the Management of Water Resources in the Yucaipa Valley [[Director Memorandum No. 18-059 - Page 90 of 105](#)]  
 RECOMMENDED ACTION: That the Board directs the General Manager to execute a contract with Crider Public Relations for a sum not to exceed \$18,000 to prepare a historical summary of the Yucaipa Valley Water District.

**VII. BOARD REPORTS & DIRECTOR COMMENTS**

**VIII. CLOSED SESSION**

- A. Conference with Real Property Negotiator (Government Code 54956.8)  
 Property: Assessor's Parcel Numbers: 0301-211-020 and 0301-201-030  
 Agency Negotiator: Joseph Zoba, General Manager  
 Negotiating Parties: Mesa Verde Ventures LLC c/o Betek Corporation Under  
 Under Negotiation: Terms of Payment and Price

**IX. ANNOUNCEMENTS**

- A. April 10, 2018 at 4:00 p.m. - Board Workshop  
 B. April 17, 2018 at 6:00 p.m. - Regular Board Meeting  
 C. April 24, 2018 at 4:00 p.m. - Board Workshop  
 D. May 1, 2018 at 6:00 p.m. - Regular Board Meeting  
 E. May 8, 2018 at 4:00 p.m. - Board Workshop  
 F. May 15, 2018 at 6:00 p.m. - Regular Board Meeting  
 G. May 22, 2018 at 4:00 p.m. - Board Workshop - **Changed from May 29, 2018**  
 H. June 5, 2018 at 6:00 p.m. - Regular Board Meeting

**X. ADJOURNMENT**

# Consent Calendar



Yucaipa Valley Water District

# MINUTES OF A REGULAR BOARD MEETING

March 20, 2018 at 6:00 P.M.

**Directors Present:**

Jay Bogh, President  
Bruce Granlund, Vice President  
Lonni Granlund, Director  
Chris Mann, Director

**Staff Present:**

Joseph Zoba, General Manager  
Allison Edmisten, Chief Financial Officer  
Mike Kostelecky, Operations Manager  
Kathryn Hallberg, Management Analyst  
Matthew Porras, Management Analyst  
Kevin Lee, Interim Operations Manager

**Directors Absent:**

Tom Shalhoub, Director

**Consulting Staff Present:**

David Wysocki, Legal Counsel

**Registered Guests and Others Present:**

Linda Shelton, Customer  
Matt LeVesque, Customer  
Joe DeSalliers, Customer  
Anna DeSalliers, Customer  
Leonard Stephenson, San Gorgonio Pass Water Agency

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**CALL TO ORDER**

The regular meeting of the Board of Directors of the Yucaipa Valley Water District was called to order by Director Jay Bogh at 6:00 p.m. at the Administrative Office Building, 12770 Second Street, Yucaipa, California.

**FLAG SALUTE**

Director Jay Bogh led the pledge of allegiance.

**ROLL CALL**

The roll was called with Director Jay Bogh, Director Bruce Granlund, Director Lonni Granlund, and Director Chris Mann present.

Director Tom Shalhoub was absent.

**PUBLIC COMMENTS**

None

**CONSENT CALENDAR**

Director Lonni Granlund moved to approve the consent calendar and Director Bruce Granlund seconded the motion.

- A. Minutes of Meetings
  - 1. Regular Board Meeting - March 6, 2018
  - 2. Strategic Planning Workshop - March 8, 2018
  - 3. Board Workshop - March 13, 2018
- B. Payment of Bills
  - 1. Approve/Ratify Invoices for Board Awarded Contracts
  - 2. Ratify General Expenses for February 2018



The motion was approved by the following vote:

Director Jay Bogh - Yes  
Director Bruce Granlund - Yes  
Director Lonni Granlund - Yes  
Director Chris Mann - Yes  
Director Tom Shalhoub - Absent

STAFF REPORT

A staff report was not provided.

DISCUSSION ITEMS:

DM 18-045

RECOGNITION OF JOE  
DESALLIERS ON HIS  
RETIREMENT FROM  
THE YUCAIPA VALLEY  
WATER DISTRICT

General Manager Joseph Zoba provided an overview of the service and contributions made by Joe DeSalliers over his thirty-three year career with the District.

The Board of Directors all mentioned their appreciation and gratitude for the service Mr. DeSalliers provided to the community.

Director Bruce Granlund moved to recognize the achievements and contributions of Mr. DeSalliers and that the Board adopt Resolution No. 2018-13. Director Lonni Granlund seconded the motion.

The motion was approved by the following vote:

Director Jay Bogh - Yes  
Director Bruce Granlund - Yes  
Director Lonni Granlund - Yes  
Director Chris Mann - Yes  
Director Tom Shalhoub - Absent

DM 18-046

RATIFICATION OF AN  
AGREEMENT WITH  
THE CITY OF YUCAIPA  
FOR THE  
INSTALLATION OF A  
PARALLEL SEWER  
SEGMENT OF  
MAINLINE ON 6<sup>TH</sup>  
PLACE AS PART OF  
THE WILDWOOD  
CREEK BRIDGE  
IMPROVEMENTS

Management Analyst Matthew Porras reviewed the agreement with the City of Yucaipa for the installation of a parallel sewer mainline with the construction of the Wildwood Creek Bridge at 6<sup>th</sup> Place.

Director Lonni Granlund moved to ratify the Agreement.  
Director Bruce Granlund seconded the motion.

The motion was approved by the following vote:

Director Jay Bogh - Yes  
Director Bruce Granlund - Yes  
Director Lonni Granlund - Yes  
Director Chris Mann - Yes  
Director Tom Shalhoub - Absent

DM 18-047

ACCEPTANCE OF  
OVERLYING WATER  
RIGHTS IN THE  
BEAUMONT BASIN FOR  
TRACT NO. 32702 (141  
LOTS) AND TRACT NO.  
32702-5 (105 LOTS)

General Manager Joseph Zoba discussed the process set forth by the Beaumont Basin adjudication for the transfer and acceptance of overlying water rights. The overlying water rights accepted by the Yucaipa Valley Water District will be utilized for Tract No. 32702 (141 lots) and Tract No. 32702-5 (105 lots).

Director Lonni Granlund moved to accept the transfer of 90.94 acre-feet of overlying water rights in the Beaumont Basin from Oak Valley Partners to Yucaipa Valley Water District as overlying-appropriative water rights in the Beaumont Basin. Director Bruce Granlund seconded the motion.

The motion was approved by the following vote:

Director Jay Bogh - Yes  
Director Bruce Granlund - Yes  
Director Lonni Granlund - Yes  
Director Chris Mann - Yes  
Director Tom Shalhoub - Absent

DM 18-048

PURCHASE OF  
REQUIRED MITIGATION  
FOR THE YUCAIPA  
CREEK EROSION  
CONTROL REPAIR  
PROJECT

Management Analyst Kathryn Hallberg provided an overview of the mitigation agreement for the Yucaipa Creek Erosion Control Repair Project.

Director Bruce Granlund moved to authorize the Board President to execute the Agreement for Sale of Credits from Riverside-Corona Resource Conservation District. Director Chris Mann seconded the motion.

The motion was approved by the following vote:

Director Jay Bogh - Yes  
Director Bruce Granlund - Yes  
Director Lonni Granlund - Yes  
Director Chris Mann - Yes  
Director Tom Shalhoub - Absent

DM 18-049

AUTHORIZATION OF  
CONTAINMENT PIPING  
REPAIRS AT THE  
YUCAIPA VALLEY  
REGIONAL WATER  
FILTRATION FACILITY

Operations Manager Mike Kostelecky presented information about the containment piping replacement contract with W.M. Lyles.

Director Lonni Granlund moved to ratify the proposal for containment and process piping repairs at the Yucaipa Valley Regional Water Filtration Facility with W.M. Lyles for a sum not to exceed \$43,600. Director Bruce Granlund seconded the motion.

The motion was approved by the following vote:

Director Jay Bogh - Yes  
Director Bruce Granlund - Yes  
Director Lonni Granlund - Yes  
Director Chris Mann - Yes  
Director Tom Shalhoub - Absent

DM 18-050

PRESENTATION OF  
THE UNAUDITED  
FINANCIAL REPORT  
FOR THE PERIOD  
ENDING ON FEBRUARY  
28, 2018

Chief Financial Officer Allison Edmisten presented the unaudited financial report for the period ending on February 28, 2018.

Director Bruce Granlund moved to receive and file the unaudited financial report. Director Chris Mann seconded the motion.

The motion was approved by the following vote:

Director Jay Bogh - Yes  
Director Bruce Granlund - Yes  
Director Lonni Granlund - Yes  
Director Chris Mann - Yes  
Director Tom Shalhoub - Absent

DM 18-051

APPOINTMENT OF  
DISTRICT  
REPRESENTATIVES TO  
THE SAN BERNARDINO  
BASIN GROUNDWATER  
COUNCIL

General Manager Joseph Zoba discussed the need to appoint a primary and alternate member to the San Bernardino Basin Groundwater Council.

Director Chris Mann moved to authorize and appoint General Manager Joseph Zoba as the primary representative and Water Resource Manager Jennifer Ares as the alternate representative to the San Bernardino Basin Groundwater Council. Director Bruce Granlund seconded the motion.

The motion was approved by the following vote:

Director Jay Bogh - Yes  
Director Bruce Granlund - Yes  
Director Lonni Granlund - Yes  
Director Chris Mann - Yes  
Director Tom Shalhoub - Absent

DM 18-052

CONSIDERATION OF  
DEVELOPMENT  
AGREEMENT NO. 2018-  
06 WITH EAGLE  
YUCAIPA 55 FOR THE  
CONSTRUCTION OF A  
SENIOR HOUSING  
DEVELOPMENT

Management Analyst Matthew Porras presented Development Agreement No. 2018-06 with Eagle Yucaipa 55 for the construction of a senior housing project at 34232 County Line Road.

Director Lonni Granlund moved to authorize the President to Execute Development Agreement No. 2018-06. Director Chris Mann seconded the motion.

The motion was approved by the following vote:

LOCATED AT 34232  
COUNTY LINE ROAD,  
YUCAIPA

Director Jay Bogh - Yes  
Director Bruce Granlund - Yes  
Director Lonni Granlund - Yes  
Director Chris Mann - Yes  
Director Tom Shalhoub - Absent

BOARD REPORTS AND  
DIRECTOR COMMENTS

- Director Chris Mann reported on the City of Yucaipa council meeting held on March 12, 2018.
- Director Chris Mann reported on the Yucaipa Groundwater Sustainability Agency meeting held on March 14, 2018.
- Director Bruce Granlund and Director Lonni Granlund reported on the Basin Plan Task Force meeting held at the Santa Ana Watershed Project Authority on March 14, 2018.
- Director Bruce Granlund and Director Lonni Granlund reported on the San Bernardino Valley Municipal Water District Advisory Commission meeting held on March 15, 2018.
- Director Jay Bogh, Director Bruce Granlund, and Director Lonni Granlund reported on the Crafton Hills Fire Academy tour held on March 16, 2018.
- Director Bruce Granlund, Director Lonni Granlund, and Director Chris Mann reported on the Association of San Bernardino County Special Districts meeting held on March 19, 2018.

CLOSED SESSION

A closed session was not conducted at this meeting.

ANNOUNCEMENTS

Director Jay Bogh called attention to the announcements listed on the agenda.

ADJOURNMENT

The meeting was adjourned at 6:35 p.m.

Respectfully submitted,

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Joseph B. Zoba, Secretary

(Seal)

# Staff Report



Yucaipa Valley Water District

# eco

**Regulation  
Assessment  
Mitigation  
Restoration**

March / April 2018



[ecomagazine.com](http://ecomagazine.com)

## REGULAR FEATURES

- 06 Editorial
- 08 News Briefs
- 20 Editorial Focus
- 36 Featured Stories
- 52 ecoCurrents
- 56 Product News
- 59 Conferences
- 62 Company News
- 64 Opportunities
- 66 Advertiser Index



**Hybrid AUV/ROV:** A multi-mission vehicle transforming underwater exploration and inspection.



**XPRIZE Ocean Discovery:** The Finals





36

Water District Uses **DRONES** For Site Development



40

**Under The Ice:** Laurent Chauvaud Records Sounds of Invertebrates Breathing



44

**A NEW** Research Model: A Brief Survey of Some of the Latest Practices & Technologies



52

**Where Narwhals Chill:** Research tracks Mysterious Marine Mammals



62

Meet the Science Communicator Taking the Helm at ECO: Kira Coley



**FEATURE STORY**



*Drone used for facility mapping.*



WATER DISTRICT USES  
**DRONES**  
FOR SITE DEVELOPMENT

Mapped UAV imagery aids the modernization  
of wastewater treatment plant.

By James Higgins, Director Global Water Practice, Esri

...with their water treatment practices and facilities. Drone and geospatial technology provide new insight for planning facility expansion.

In the United States, the State of California is just recovering from a five-year drought. But climatologists are already forecasting another drought on the way. Seeking sustainable water supplies, the state's water districts actively pursue practices that will ensure their viability in providing dependable water service. One community is using unmanned aerial vehicles (UAV), commonly known as drones, and geospatial technology to upgrade its wastewater treatment site processing, such as desalination operations.

Esri develops geospatial technology that helps water managers preserve water quality and quantity. Water districts use Esri ArcGIS® software to map their service areas and better serve their customers. With ArcGIS, drone-captured imagery can be used to depict 3D infrastructure and model terrain in ways that improve water facility management. Having used ArcGIS for years, Yucaipa Valley Water District (YVWD) has taken advantage of this capability.

YVWD serves the cities of Yucaipa and Calimesa, a quiet bucolic community about 70 miles east of Los Angeles in the foothills of the San Bernardino mountains. Despite the area's semi-arid climate, the water district pumps less water from its own supplies than it did 25 years ago. One reason for this is that YVWD supplements its well water reserves with water it buys from the state.

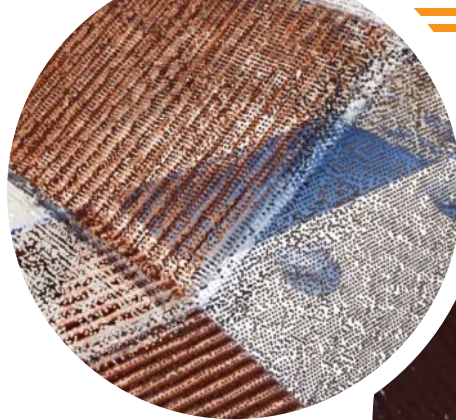
The California State Water Project (SWP) transports Northern California river water 700 miles via the California Aqueduct to communities in Southern California. YVWD buys the water and processes it for drinking water usage. Using state water ensures that the district does not over-pump local water resources. The outcome has been that the water levels in the local basin are back to what they were in 1991.

"Without the SWP, our community would not be able to expand because there simply are not enough local water supplies to sustain growth," explains Kathryn Hallberg, YVWD management analyst. "The same is true of other Southern California communities. We are still very aggressive in our water conservation and overall sustainability efforts because we have a limited amount of water that we are all dependent on."

YVWD also operates a cutting-edge wastewater treatment facility that garners international attention for its practices and brings visitors from as far as South Korea to learn their methods. To meet regulatory requirements, YVWD has added a desalination process to purify recycled

water and sends the extracted salt via a brine line network to the coastal area of Orange County for treatment and disposal into the Pacific Ocean. Each year, the water authority from La Paz, the capital city of Baja California Sur, Mexico, visits YVWD to learn the most current methods of salt removal. Facing a serious water supply problem, La Paz is eager to address salt water intrusion into their local aquifer and benefits from what they learn during their visits to YVWD.

While eager to share their experience with other water agencies, YVWD is most closely focused on serving its customers. Yucaipa and Calimesa have grown over the past decade. Currently serving more than 12,000 connections, YVWD is gearing up to add 8,000 more in the near future. Anticipating rising demand, the district is expanding its wastewater facility to make way for infrastructure to produce more high-quality recycled water.



The drone captures overlapping imagery that is used to create a point cloud representing the height of features above the ground.



GIS transforms drone-captured data into virtual 3D images.

# California's drought cycles

DRIVE WATER DISTRICTS TO BE AS EFFICIENT AS POSSIBLE...



The proposed facility will include solar energy production, hydrogen fuel cells, additional clarifiers, additional reverse osmosis equipment, a brine concentrator, and other critical infrastructure. The expansion will require a strategic plan to locate the new buildings and equipment on the existing property.

The district's wastewater treatment plant sits in a canyon surrounded by hills, so space is limited. To accommodate new equipment, YVWD needed to rethink how it uses the area. Because this is a spatial problem, the district is using GIS to solve it.

## Drone Mapping

*"We worked with Esri and 3DR to plan a drone flight to capture imagery and generate a basemap that we can use now and into the future," Hallberg said. "We set up the problem and Esri helped us define the solution."*

YVWD wanted to survey the site using UAVs with the goal of creating an accurate base map and 3D model of its facility. Drone surveys are less expensive and faster than traditional survey methods. YVWD collaborated on a joint project with Esri and 3D Robotics (an Esri partner) to capture and process images of the wastewater treatment facility.

Flying the drone was easy. The pilot preprogrammed the flightpath, including the elevation of the drone and the angles for the camera. When he pressed go, the drone automatically flew the programmed path taking pictures along the route. In some places it flew a lawnmower pattern to ensure accurate coverage. The drone then landed in the same place it launched. The next task was extracting the data and making them useful.

While still in the field, the drone pilot used Drone2Map for ArcGIS® to process the images. The app includes rapid processing capability, so the pilot could see if the drone captured the imagery he wanted. This feature would save staff the time and effort of returning to the field later to re-fly missed areas.

Back in the office, Drone2Map ingested the imagery, coordinates, and camera information—such as focal length and pixel density. The app processed the drone's high-resolution photographs and created 2D image mosaics and 3D elevation products. It also prepared the imagery so that staff could further analyze it in ArcGIS.

## Expansion Analysis

Drone2Map generated the project flight plan by drawing lines on a map (where the drone would fly) and dots (where the drone takes a picture) to collect images needed to create the 3D point cloud and maps of the facility infrastructure.

2D maps and 3D models of the facility buildings, tanks, and surrounding hills were made possible with Drone2Map. Drone-collected imagery within a GIS environment equipped the facility team with the power to calculate above-ground heights of the tanks and vents from their desktop. They could also determine the volume capacity of the site's water retention basins and develop grading solutions with cut and fill estimates.

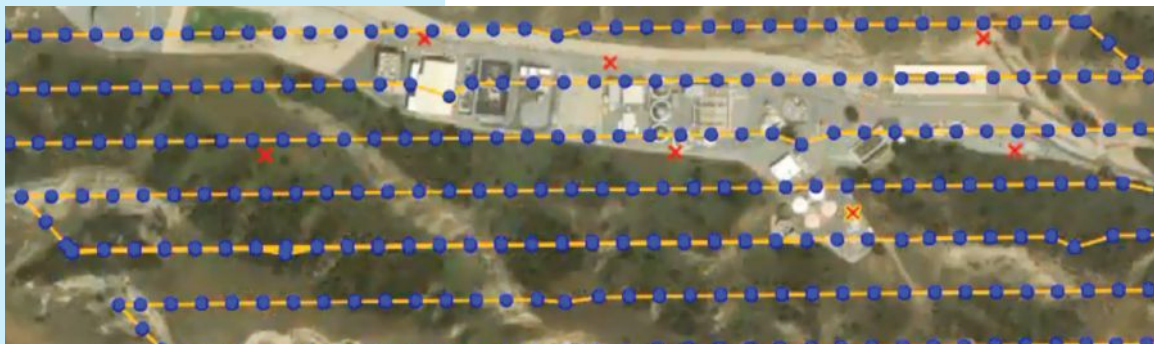
"GIS and UAV applications have been extremely helpful for us to effectively and efficiently maximize our space for expansion," Hallberg said. "Working in a virtual 3D environment, we can pick up buildings and move them to other areas to see where they fit in our project. It also shows us where we can tear out and get rid of equipment we don't use anymore so that we can best use the limited amount of space we have."

An added benefit of having these data in their GIS is that the water district can provide vital information and document existing conditions prior to unforeseen events. Yucaipa sits on the base of the notorious San Andreas fault and is vulnerable to earthquakes. It is also threatened by wildfires, flash floods, and landslides.

**SHOULD A DISASTER SWEEP AWAY THE COMMUNITY'S LANDMARKS AND STREET ADDRESSES, THE GEOSPATIAL DATA WOULD REMAIN ON FILE.**

GPS-located underground infrastructure data and coordinate-based maps would give the district critical records that would be needed to request FEMA assistance for recovery efforts. The measure of a community's resilience is its ability to plan, respond, and bounce back from natural disasters.

Drought cycles may well become the norm in California and other regions in the world. If so, water utilities need to adapt by retrofitting water and recycled water facilities, updating old infrastructure, and building new networks to ensure resilient water service. Using GIS, water managers are already adapting new strategies to build robust and sustainable water solutions for their communities.



The yellow line on the map shows the drone's flightpath. The blue dots along the flight plan lines provide the GPS location for the Drone2Map software to take pictures.

# Discussion Items



Yucaipa Valley Water District



**Date:** April 3, 2018

**Prepared By:** Allison M. Edmisten, Chief Financial Officer

**Subject:** Consideration of Resolution No. 2018-14 Authorizing the Release of Unclaimed Monies to the Yucaipa Valley Water District Pursuant to Government Code Section 50055

**Recommendation:** That the Board adopts Resolution No. 2018-14.

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On October 3, 2017 the Board of Directors adopted the Unclaimed Funds Escheatment Policy (DM 17-090). This policy requires District staff to annually transfer any monies from checks greater than one year old and less than \$15 to the District as miscellaneous revenue. In addition, any checks greater than three years old and more than \$15 will be noticed in a local paper and if unclaimed after 60-days will also become miscellaneous revenue.

On January 16, 2018, District staff presented a list of unclaimed funds to the Board of Directors (DM 18-005). One check greater than one year old in the amount of \$11.14 was transferred to the District as miscellaneous revenue. There were 26 checks that were more than three years old and more than \$15 each. These 26 checks totaled \$2,627.86.

On January 17, 2018, letters were mailed to each of the 26 individuals/companies for the checks mentioned above. The letter stated a response was required, in person or by mail, to claim the funds by March 20, 2018 and a new check would be issued. A total of five letters were returned as undeliverable.

On January 26, 2018 and February 2, 2018, the list of 26 checks mentioned above was published in the Yucaipa News Mirror. The publication stated the funds were required to be claimed, in person or by mail, by March 20, 2018, otherwise the funds would become property of the District. A total of eight responses were received. One response, stated the payment was satisfied and no payment was due. Six responses, requested a new check be issued. One response, requested the District to credit their current active sewer account.

RESPONSE	TOTAL
No Payment Due (1)	\$175.31
Reissue checks (6)	\$907.28
Credit Account (1)	\$99.78

The remaining amount of unclaimed funds as of March 21, 2018, in the amount of \$1,620.80, will be forfeited to the District as miscellaneous revenue.

**RESOLUTION NO 2018-14**

**A RESOLUTION OF THE YUCAIPA VALLEY WATER DISTRICT  
AUTHORIZING THE RELEASE OF UNCLAIMED MONIES PURSUANT TO  
GOVERNMENT CODE SECTION 50055 OF THE STATE OF CALIFORNIA**

WHEREAS, Sections 50050-50056 of the California Government Code outlines the process for the notification process of the unclaimed checks; and

WHEREAS, Section 50055 of the California Government Code allows for unclaimed checks of less than \$15 or any amount if the depositor’s name is unknown, to become the property of the local agency after a period of one (1) year without the necessity of publication of a notice in a newspaper; and

WHEREAS, Section 50050 of the California Government Code allows for unclaimed checks more than three years old to become the property of the local agency following publication in the local newspaper; and

WHEREAS, each of the checks listed on the attached summary meets these criteria.

\_\_\_\_\_

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the District does hereby transfer the unclaimed checks on the attached list in the total amount of \$1,620.80 to the applicable fund (water, sewer, or recycled) in accordance with the provisions of Sections 50050-50056 of the California Government Code.

PASSED, APPROVED and ADOPTED this 3<sup>rd</sup> day of April 2018.

YUCAIPA VALLEY WATER DISTRICT

\_\_\_\_\_  
Jay Bogh, President Board of Directors

ATTEST:

\_\_\_\_\_  
Joseph B. Zoba, General Manager

## Yucaipa Valley Water District 2018 Unclaimed Funds

### Greater than \$15 and greater than 3 years

Government Code 50050-50057: Checks >\$15 and if unclaimed for >3 years, publish in local newspaper for 2 weeks. If still unclaimed after 60 days, transfer to miscellaneous revenue

Check Date	Check Number	Name	Check Amount
05/14/08	3361	James Mason	\$ 20.16
05/28/08	3484	Geneva Mathisen	\$ 32.79
10/29/08	4752	Dortha P. Shorkey	\$ 46.83
12/24/08	5243	Keith Tasker	\$ 638.60
01/16/09	5391	Wells Fargo Bank	\$ 23.33
01/16/09	5393	James Allfree	\$ 27.32
02/11/09	5566	Clean Earth Recycling, Inc.	\$ 113.60
02/18/09	5702	Arthur Buchanan	\$ 180.68
6/19/2009	6698	Curtis R. Enscoe	\$ 29.10
9/11/2009	7389	Kevin Baker	\$ 33.09
2/7/2011	11520	Timothy Portway	\$ 40.00
3/14/2011	11838	William Cronk	\$ 56.94
1/18/2012	14265	Mamdouh Riad	\$ 21.65
5/18/2012	15190	Ralph & Michel Sias	\$ 39.43
8/27/2012	15976	Pro-Pipe & Supply, Inc.	\$ 175.31
3/8/2013	17399	Anthony Nicholas	\$ 41.74
6/30/2014	21014	Fabion Murillo	\$ 42.79
10/20/2014	21876	Christianah Coleman	\$ 22.00
12/22/2014	22307	Gilbert Cabrera	\$ 35.44
			<b>\$ 1,620.80</b>



**ATTACHMENT A**

<January 17, 2018>

<Name>  
<Address 1>  
<Address 2>  
<City, State Zip>

Dear <Name>,

Our records indicate that the following check issued to you has not cleared our bank.

Check Number: <Check Number>  
Amount: <Amount>  
Date Issued: <Date Issued>

Please reply to this correspondence below and return back to us, either via email or mail.

- Yes, this payment is still due, I hereby request a replacement check to be sent to:

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- No, this payment has been satisfied, no payment is due

- Other. Please explain:

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If we do not hear from you by March 20, 2018, this payment will be deemed the property of the District.

If you have any questions, please feel free to contact me.

Sincerely,

<Name>  
<Title>  
<Phone>  
<Email>

**ATTACHMENT B**

**RECEIVED**  
**FEB 05 2018**  
**YUCAIPA VALLEY**  
**WATER DISTRICT**

**Yucaipa News Mirror**

35154 Yucaipa Blvd.  
 Yucaipa, CA 92399  
 909-797-9101

**Proof of Publication**

(2015.5 C.C.P.)

**LEGAL NOTICE CHECK CLAIM**

**State of California** )  
**County of San Bernardino** ) ss.

I am a citizen of the United States and a resident of the State of California; I am over the age of eighteen years, and not a party to or interested in the above matter. I am the principal clerk of the printer and publisher of Yucaipa News Mirror, a newspaper published in the English language in the City of Yucaipa, County of San Bernardino, and adjudicated a newspaper of general circulation as defined by the laws of the state of California by the Superior Court of the County of San Bernardino, under the date June 3, 1954, Case No. 78001. That the notice, of which the annexed is a copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

January 26, 2018

Executed on: January 26, 2018

At Yucaipa, California

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

*Jessica Aragon*  
 \_\_\_\_\_  
 Signature

**LEGAL NOTICE**

The Yucaipa Valley Water District has issued checks to the following individuals/businesses and these checks have not been cashed:

NAME	DATE	CK #	AMOUNT
Catherine Wilmot	02/15/08	5504	\$112.50
Deda James	04/11/08	3102	\$ 37.61
James Mason	05/14/08	3361	\$ 20.16
Geneva Mathisen	05/28/08	3484	\$ 32.79
Dortha P. Shorkey	10/29/08	4752	\$ 46.83
Keith Tasker	12/24/08	5243	\$638.60
Wells Fargo Bank	01/16/09	5391	\$ 23.33
James Allfree	01/16/09	5393	\$ 27.32
Clean Earth Recy.	02/11/09	5566	\$113.60
Arthur Buchanan	02/18/09	5702	\$180.68
Curtis R. Enscoe	06/19/09	6698	\$ 29.10
Kevin Baker	09/11/09	7389	\$ 33.09
Bernard Nizinski	09/24/10	10510	\$117.24
Timothy Portway	02/07/11	11520	\$ 40.00
William Cronk	03/14/11	11838	\$ 56.94
Mamdouh Riad	01/18/12	14265	\$ 21.65
Ralph & Michel Sias	05/18/12	15190	\$ 39.43
Pro-Pipe & Supply	08/27/12	15976	\$175.31
Anthony Nicolas	03/08/13	17399	\$ 41.74
Michelle Vicario	07/22/13	18483	\$ 99.78
Kristen Wardlaw	08/23/13	18765	\$180.93
IBEW Local 1436	01/10/14	19796	\$324.00
Assoc of San Bndo	06/16/14	20924	\$135.00
Fabion Murillo	06/30/14	21014	\$ 42.79
Christianah Coleman	10/20/14	21876	\$ 22.00
Gilbert Cabrera	12/22/14	22307	\$ 35.44

Amounts may be claimed by contacting the Yucaipa Valley Water District, Accounts Payable, 12770 Second Street, Yucaipa, CA 92399 in person or mail to P.O. Box 730, Yucaipa, CA 92399. Amounts must be claimed by March 20, 2018. Funds that are not claimed by March 20, 2018 will become the property of Yucaipa Valley Water District pursuant to Government Code §50050-50057.

Published  
 Yucaipa/Calimesa News Mirror  
 January 26 & February 2, 2018

**ATTACHMENT C**

**RECEIVED**  
**FEB 05 2018**  
**YUCAIPA VALLEY**  
**WATER DISTRICT**

**Yucaipa News Mirror**  
 35154 Yucaipa Blvd.  
 Yucaipa, CA 92399  
 909-797-9101

**Proof of Publication**  
 (2015.5 C.C.P.)

**LEGAL NOTICE CHECK CLAIM**

**State of California** )  
**County of San Bernardino** ) ss.

I am a citizen of the United States and a resident of the State of California; I am over the age of eighteen years, and not a party to or interested in the above matter. I am the principal clerk of the printer and publisher of Yucaipa News Mirror, a newspaper published in the English language in the City of Yucaipa, County of San Bernardino, and adjudicated a newspaper of general circulation as defined by the laws of the state of California by the Superior Court of the County of San Bernardino, under the date June 3, 1954, Case No. 78001. That the notice, of which the annexed is a copy, has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to-wit:

February 2, 2018

Executed on: February 2, 2018

At Yucaipa, California

I certify (or declare) under penalty of perjury that the foregoing is true and correct.

*Jeresa Aragon*

Signature

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Kristen Wardlaw	08/23/13	18765	\$180.93
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Assoc of San Bndo	06/16/14	20924	\$135.00
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Published  
 Yucaipa/Calimesa News Mirror  
 January 26 & February 2, 2018



**Date:** April 3, 2018

**Prepared By:** Jennifer Ares, Water Resource Manager  
Ashley Gibson, Water Resource Supervisor

**Subject:** Consideration of a Contract with Dudek for the 2018 Groundwater and Surface Water Monitoring Related to the Yucaipa Valley Water District's Maximum Benefit Monitoring Program

**Recommendation:** That the Board approves the Maximum Benefit Monitoring Program Contract with Dudek for a sum not to exceed \$93,580.

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Yucaipa Valley Water District is required to conduct extensive monitoring for the Maximum Benefit Program in the San Timoteo and Yucaipa Management Zones pursuant to the Regional Water Quality Control Board (RWQCB) Resolution Nos. R8-2005-0065 and R8-2014-0005.

The following scope of work and fee are based on monitoring requirements included in Resolution No. R8-2014-0005. The monitoring will include groundwater monitoring services at up to fourteen (14) wells in the San Timoteo Management Zone and three (3) wells in the Beaumont Groundwater Management Zone. This will include collecting groundwater quality samples from seven (7) of the wells. Surface water monitoring services at up to four (4) surface water monitoring points in the San Timoteo Management Zone will also be conducted bi-weekly.

All data collected in the field (e.g. groundwater level measurements, surface water flows) will be compiled in a database, along with analytical laboratory results for all water quality samples collected by Dudek. Dudek will manage the data for the San Timoteo Creek, Yucaipa, and Beaumont Management Zones. This includes collecting, reviewing, providing QA/QC, and compiling all groundwater and surface water data from the three management zones.

The District is currently under contract with Dudek for the 2017 groundwater and surface water monitoring for the San Timoteo Management Zone. This proposal covers the monitoring requirements for the 2018 calendar year.

Financial Considerations:

Funding for this project will be from Wastewater Fund, [GL Account #03-5-06-54109]. This project was included in the 2017-18 budget.

**DUDEK**

MAIN OFFICE  
605 THIRD STREET  
ENCINITAS, CALIFORNIA 92024  
T 760.942.5147 T 800.450.1818 F 760.632.0164

March 22, 2018

10229

Jennifer Ares  
Water Resource Manager  
Yucaipa Valley Water District  
12770 Second Street  
Yucaipa, CA 92399

***Subject: Proposed Scope of Work and Fee to Provide Groundwater and Surface Water Monitoring Services in 2018 Related to the Maximum Benefit Monitoring Program for the San Timoteo Management Zone***

Dear Ms. Ares:

Dudek is pleased to present this scope of work and fee to provide groundwater and surface water monitoring services for the San Timoteo Management Zone in 2018 as per the Maximum Benefit Monitoring Programs presented in the Santa Ana Regional Water Quality Control Board (the Board) Resolutions R8-2005-0065 and R8-2014-0005. Data collection at the groundwater and surface water monitoring wells and/or stations fall under the responsibility of YVWD per R8-2014-0005. Dudek understands that YVWD will act as the lead agency in managing the Maximum Benefits Monitoring Program for the San Timoteo, Yucaipa and Beaumont Groundwater Management Zones. All Dudek invoices and project management will be coordinated with YVWD.

The following scope of work and fee are based on monitoring requirements included in the Draft Maximum Benefit Monitoring Report 2015 Work Plan (Wildermuth, 2014) that was updated on December 22, 2014 and approved by the Santa Ana Regional Water Quality Control Board on January 6, 2015.

The following scope of work includes:

1. Semi-annual groundwater monitoring services at up to fourteen (14) wells in the San Timoteo Management Zone and three (3) wells in the Beaumont Groundwater Management Zone. This will include collecting groundwater quality samples from nine of the wells and arranging for the samples to be delivered to Clinical Laboratory of San Bernardino, Inc. of Grand Terrace, California for analyses as outlined in the Draft 2015 Work Plan. Water levels will also be manually measured at the wells sampled and designated for water level measurement using a Solinst water level sounder. Water level data measured from dedicated pressure transducers installed at some of the wells and

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*Ms. Jennifer Ares*

*Subject: Proposed Scope of Work and Fee to Provide Groundwater and Surface Water Monitoring Services in 2018 for the Maximum Benefits Monitoring Programs*

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transmitted to the HydroVu database will be downloaded and compiled for inclusion in the annual maximum benefits monitoring report.

2. Bi-weekly surface water monitoring services at up to four (4) surface water monitoring points in the San Timoteo Management Zone. This will include measuring surface water flows and collecting water quality samples on a biweekly basis from three of the four monitoring points. The Draft 2015 Work Plan also calls for the collection of water quality samples from two of the surface water monitoring points following up to 6 storm events.
3. All data collected in the field (e.g. groundwater level measurements, surface water flows) will be compiled in a database, along with analytical laboratory results for all water quality samples collected by Dudek.
4. Dudek will act as the Data Manager for the San Timoteo Creek, Yucaipa, and Beaumont Groundwater Management Zones. This includes collecting, reviewing, providing QA/QC, and compiling all groundwater and surface water data from the three management zones.
5. Dudek will prepare a draft 2017 Maximum Benefit Monitoring Program Annual Report to be distributed to Yucaipa Valley Water District and other interested parties by March 30, 2018 for review and comments. Dudek will finalize the draft report for submittal to the Regional Board by April 13, 2018.

## **SCOPE OF WORK**

### **Task 1. Semi-Annual Groundwater Level and Water Quality Monitoring**

Dudek personnel will be tasked with conducting all field work pertaining to the semi-annual groundwater monitoring events. The field work is tentatively scheduled in late April and late October 2018. The following is a list of tasks that will be completed by Dudek:

- In the STGMZ, manually measure depths-to-water (DTW) at wells GWMW-1, GWMW-2, GWMW-3, GWMW-4, GWMW-5A, GWMW-5B, GWMW-5C (if not artesian), OW-1P, OW-2P, OW-3P, OW-4A/4B, OW-5A/5B, OW-6A/6B, and GL-8 using a Solinst electric water level sounder provided by Dudek. The DTW measurements will be measured at 0.01-foot accuracy. The time and date of each DTW measurement, plus the conditions of each well, will be recorded in field forms.
- Water level data will also be downloaded from the In-Situ HydroVu website, which is an online database that receives data from the dedicated remote telemetry systems installed at wells GWMW-1, GWMW-2, GWMW-3, GWMW-4, GWMW-5A, GWMW-5B, OW-1P,

*Ms. Jennifer Ares*

*Subject: Proposed Scope of Work and Fee to Provide Groundwater and Surface Water Monitoring Services in 2018 for the Maximum Benefits Monitoring Programs*

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OW-2P, OW-3P, OW-4A/4B, OW-5A/5B, and OW-6A/6B. Each remote telemetry system includes an In-Situ Rugged Troll pressure transducer that is programmed to measure and record water levels on an hourly basis. The hourly data will be incorporated into the annual Maximum Benefits Annual Report.

- In the STGMZ, water quality samples will be collected from wells GWMW-2, GWMW-3, GWMW-4, GWMW-5A, GWMW-5B, GWMW-5C, and Deep Well (Marty Wells owner). All wells will be purged using a portable submersible pump and generator provided by YVWD. Wells GWMW-2, GWMW-3, and GWMW-4 will be purged dry and allowed to recover overnight before collecting a representative groundwater sample. Dudek understands that the purge water may be discharged to land at each well location.
- Field parameters pH, temperature, specific conductance and dissolved oxygen will be measured during the purging process to characterize the water quality and identify when the water produced from the well is representative of native groundwater. Dudek will use a multi-parameter device provided by YVWD to measure the water quality parameters. Dudek staff will calibrate the device using calibration standards provided by YVWD at the YVWD wastewater treatment plant. The calibration of the multi-parameter device will be recorded by Dudek staff prior to its use in the field.
- The DTW, field parameters, and volumes purged will be recorded in field sampling forms completed in the field at each well point. The field sampling forms will also include the name of the sampler, the date/time of measurement and sample collection, the estimated volume of water to purge 3 casing volumes, and the actual volume purged. The representative water quality samples will be collected after 3 casing volumes are purged or the field parameters monitoring during purging are stable within 10% of previous measurements.
- Water quality samples will be collected in sampling containers provided by Clinical Laboratory of San Bernardino, Inc., which is a California certified analytical laboratory (ELAP Certificate No. 1088). All sample containers will be labeled with the date/time of sample collection, the well ID, identification of the preservative (if any) in the container, and the name of the sampler. A chain-of-custody form will be completed as each sample is collected and submitted with the samples to Clinical Laboratory of San Bernardino, Inc. The analytical laboratory will analyze each sample per Table 2-4 of the Draft 2015 Work Plan, which includes the following constituents:

- Total Dissolved Solids



*Ms. Jennifer Ares*

*Subject: Proposed Scope of Work and Fee to Provide Groundwater and Surface Water Monitoring Services in 2018 for the Maximum Benefits Monitoring Programs*

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- Specific conductance
  - Nitrate-Nitrogen or Nitrate as nitrogen
  - Nitrite-Nitrogen or Nitrite as nitrogen
  - Total Inorganic Nitrogen
  - pH
  - Total alkalinity (as CaCO3)
  - Carbonate, bicarbonate and hydroxide
  - Silica (as SiO2)
  - Inorganic cations Ca, Mg, K, and Na
  - Inorganic anions Cl, F, SO4.
- All water quality samples will stored in an ice-chest with ice during the sampling event. The samples will be delivered to Clinical Laboratory of San Bernardino on ice.
  - This task includes labor hours to compile all data collected during the groundwater monitoring events and update the project database, water level and water quality hydrographs, and plan view maps.
  - Data collected for the Maximum Benefits Monitoring Program will also be incorporated into the central Data Management System that Dudek is currently developing for YVWD.

The fee for conducting the groundwater monitoring events also includes direct costs that include a per diem rate of \$95 during the groundwater monitoring tasks, and daily rates for the use of a vehicle (\$65/day) and water level sounder (\$25/day). The per diem rate was based on the United States General Services Administration that defined these rates for San Bernardino County for Fiscal Year 2018 (visit [gsa.gov](http://gsa.gov) website).

***Cost for Task 1 .....\$20,300***

**Task 2. Bi-Weekly Surface Water Monitoring**

Dudek personnel will conduct all field work pertaining to the bi-weekly surface water monitoring events. The field work began on January 12, 2018 and continue every other Tuesday until December 18, 2018. The draft work plan also calls for a minimum of surface water sampling following 6 storm events. Bi-weekly surface water monitoring will include the following tasks:

- In the STGMZ, measure surface water flow using a current meter provided by YVWD at the following surface water monitoring stations: YVWD-A, YVWD-B, and YVWD-Z in the San Timoteo Management Zone. Surface water flow will be calculated using the



*Ms. Jennifer Ares*

*Subject: Proposed Scope of Work and Fee to Provide Groundwater and Surface Water Monitoring Services in 2018 for the Maximum Benefits Monitoring Programs*

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Velocity-Area Method described in *Discharge Measurements at Gaging Stations* by the USGS (Turnispeed et al., 2010).

- The multi-parameter water quality device will be used in the field to measure temperature, pH, electrical conductivity, and dissolved oxygen of the surface water. These parameters will be recorded in a field sampling form completed for each station.
- Water quality samples will be collected in sampling containers provided by Clinical Laboratory of San Bernardino, labeled with the data/time of sample collection, the surface water monitoring site ID, identification of the preservative (if any) in the container, and the name of the sampler. A chain-of-custody form will be completed as each sample is collected and submitted with the samples to the analytical laboratory. Each surface water sample will be analyzed for constituents listed in Table 3-1 of the Draft 2015 Work Plan, which include the constituents required for groundwater plus ammonia as nitrogen. Silica will not be analyzed for in the surface water samples.
- Water quality samples will also be collected at YVWD-E and YVWD-Z following up to 6 storm events. Dudek anticipates conducting four additional sampling events to capture storm water flows outside the regularly scheduled biweekly sampling events. Dudek anticipates conducting two storm water sampling events concurrently with regularly scheduled biweekly sampling events. The storm water event samples will be analyzed for the same parameters required with the biweekly samples.
- All water quality samples will be stored in an ice-chest with ice during the sampling event. The samples will be delivered to Clinical Laboratory of San Bernardino, Inc. on ice. This fee does not include costs for the analyses performed by Clinical Laboratory of San Bernardino. Dudek anticipates that YVWD will receive invoices directly from Clinical Laboratory for payment on all surface water samples analyzed.
- This task includes labor hours to compile all data collected during the surface water monitoring events and update the GIS database, water quality hydrographs, and plan view maps.

The fee for conducting the surface water monitoring events also includes direct costs that include a daily Meals and Incidental Expenses (M&IE) rate of \$54 and a daily rate for the use of a vehicle (\$65). The M&IE rate was based on the United States General Services Administration that defined these rates for San Bernardino County for Fiscal Year 2018 (visit [gsa.gov](http://gsa.gov) website).

*Ms. Jennifer Ares*

*Subject: Proposed Scope of Work and Fee to Provide Groundwater and Surface Water Monitoring Services in 2018 for the Maximum Benefits Monitoring Programs*

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*Cost for Task 2 .....\$41,330*

**Task 3. 2017 Maximum Benefit Annual Report**

Dudek will prepare the 2017 Maximum Benefit Annual Report, which will summarize the work performed and data collection from January 1 to December 31, 2017. The report will include a review of data collected and present the data in graphical form using water level and water quality hydrographs. Copies of all analytical laboratory reports, field forms, and calibration forms will be included in appendices to the report. As part of the preparation in drafting the report, Dudek will act as the data manager to collect, review, QA/QC, and process all groundwater and surface water data collected in the Yucaipa, San Timoteo Creek, and Beaumont Management Zones. This will include updating and maintaining one central database the will include all data.

A first draft of the report will be submitted to YVWD and other maximum benefit participants by March 30, 2018 to review and provide comments and suggested edits. Dudek will then address these comments and finalize the report for distribution to the Santa Ana Regional Water Quality Control Board by April 13, 2018. The report will include a summary of compliance with each of the maximum benefit commitments outlined in the Draft 2015 Work Plan.

*Cost for Task 3 .....\$22,950*

**Task 4. Project Management and QA/QC**

This task includes labor hours for the project manager, Steven Stuart, PE, to coordinate with YVWD staff and other participants, to plan project logistics for field sampling, data compilation, and provide QA/QC of all documented work and data collected in the three management zones. This also includes labor hours to participate in conference calls and meetings with YVWD.

*Cost for Task 4 .....\$9,000*

**FEE SUMMARY**

The fee presented in this proposal will be charged on a time and materials basis in accordance with Dudek’s 2018 Standard Schedule of Charges (see attached). Dudek will complete the tasks described above on a time-and-materials basis, not to exceed \$93,580.

The time and materials fee provided in this proposal represents an estimate of the anticipated level of effort required to complete the tasks described in the proposal. Should the actual effort required to complete the tasks be less than anticipated, the amount billed will be less than the total fee. Conversely, should the actual effort to complete the proposed tasks be greater than anticipated, additional fee authorizations will be requested. No work in excess of the proposed fee or outside

*Ms. Jennifer Ares*

*Subject: Proposed Scope of Work and Fee to Provide Groundwater and Surface Water Monitoring Services in 2018 for the Maximum Benefits Monitoring Programs*

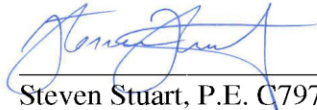
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of the proposed scope of work will be performed without written authorization from Yucaipa Valley Water District.

**TOTAL COST.....\$93,580**

Please call me at (760) 479-4128 if you have any questions or require further discussion.

Sincerely,

  
\_\_\_\_\_  
Steven Stuart, P.E. C79764  
Project Manager

*Att.: Table 1. Fee to Conduct Groundwater and Surface Water Monitoring Services in 2018  
2018 Dudek Standard Schedule of Charges*

*References:*

*Turnispeed, D.P., and Sauer, V.B., 2010, Discharge measurements at gaging stations: U.S. Geological Survey Techniques and Methods book 3, chap. A8, 87 p.*

*Wildermuth Environmental, Inc., 2014. Maximum Benefit Monitoring Report 2015 Work Plan Draft. Prepared for City of Beaumont, Yucaipa Valley Water District, San Geronio Pass Water Agency, Beaumont Cherry Valley Water District, City of Banning. September 30, 2014. Updated December 22, 2014.*

**AUTHORIZATION TO PROCEED**  
*for*  
**Scope of Work for Services Provided for Groundwater and Surface Water  
Monitoring per Maximum Benefits Monitoring Programs in 2018**

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The proposed scope of work and fee presented herein is acceptable and Dudek is hereby authorized to proceed with the proposed scope of services.

Authorized by: \_\_\_\_\_  
(Signature)

\_\_\_\_\_  
Name (typed or printed)

For: Yucaipa Valley Water District

\_\_\_\_\_  
Date

**Yucaipa Valley Water District**  
**Services Provided for the 2018 Maximum Benefits Monitoring Program**  
**DUDEK FEE SCHEDULE**

Task #	TASK	Project Team Role:				TOTAL HOURS	DUDEK LABOR COST	OTHER DIRECT COSTS <sup>1</sup>	TOTAL FEE
		Sr. Engineer IV Steven Stuart, PE \$225	Hydrogeologist IV Christian Hunter \$140	Hydrogeologist VI Susie Smith, PG \$160	Publications				
1	Semi-Annual Groundwater Level and Quality Sampling	16	76	32	124	\$ 19,360	\$ 940	\$ 20,300	
2	Bi-Weekly Surface Water Monitoring	24	232		256	\$ 37,880	\$ 3,450	\$ 41,330	
3	Maximum Benefit Annual Report	60	60		130	\$ 22,950		\$ 22,950	
4	Project Management and QA/QC	40			40	\$ 9,000		\$ 9,000	
<b>Total Hours and Fee</b>		<b>140</b>	<b>368</b>	<b>32</b>	<b>550</b>	<b>\$ 89,190</b>	<b>\$ 4,390</b>	<b>\$ 93,580</b>	
<i>Percent of Hours:</i>		<i>25%</i>	<i>67%</i>	<i>6%</i>	<i>100%</i>		<i>2%</i>		

1) Direct costs include administration, reproduction of reports and transportation/lodging costs for site inspection and interviews.

**DUDEK  
2018 STANDARD SCHEDULE OF CHARGES**

**ENGINEERING SERVICES**

Project Director .....	\$275.00/hr
Principal Engineer III.....	\$245.00/hr
Principal Engineer II .....	\$235.00/hr
Principal Engineer I .....	\$225.00/hr
Program Manager .....	\$215.00/hr
Senior Project Manager .....	\$215.00/hr
Project Manager.....	\$210.00/hr
Senior Engineer III .....	\$205.00/hr
Senior Engineer II .....	\$195.00/hr
Senior Engineer I .....	\$185.00/hr
Project Engineer IV/Technician IV .....	\$175.00/hr
Project Engineer III/Technician III.....	\$165.00/hr
Project Engineer II/Technician II .....	\$150.00/hr
Project Engineer I/Technician I .....	\$135.00/hr
Project Coordinator .....	\$105.00/hr
Engineering Assistant .....	\$100.00/hr

**ENVIRONMENTAL SERVICES**

Principal .....	\$240.00/hr
Senior Project Manager/Specialist II .....	\$225.00/hr
Senior Project Manager/Specialist I .....	\$215.00/hr
Environmental Specialist/Planner VI .....	\$195.00/hr
Environmental Specialist/Planner V .....	\$175.00/hr
Environmental Specialist/Planner IV .....	\$165.00/hr
Environmental Specialist/Planner III .....	\$155.00/hr
Environmental Specialist/Planner II .....	\$140.00/hr
Environmental Specialist/Planner I .....	\$125.00/hr
Analyst III .....	\$115.00/hr
Analyst II .....	\$105.00/hr
Analyst I .....	\$95.00/hr
Planning Assistant II .....	\$85.00/hr
Planning Assistant I .....	\$75.00/hr

**COASTAL PLANNING/POLICY SERVICES**

Senior Project Manager/Coastal Planner II .....	\$220.00/hr
Senior Project Manager/Coastal Planner I .....	\$210.00/hr
Environmental Specialist/Coastal Planner VI .....	\$200.00/hr
Environmental Specialist/Coastal Planner V .....	\$180.00/hr
Environmental Specialist/Coastal Planner IV .....	\$170.00/hr
Environmental Specialist/Coastal Planner III .....	\$160.00/hr
Environmental Specialist/Coastal Planner II .....	\$150.00/hr
Environmental Specialist/Coastal Planner I .....	\$140.00/hr

**CULTURAL AND PALEONTOLOGICAL SERVICES**

Senior Project Manager/Archaeologist II .....	\$215.00/hr
Senior Project Manager/Archaeologist I .....	\$205.00/hr
Environmental Specialist/Archaeologist V .....	\$185.00/hr
Environmental Specialist/Archaeologist IV .....	\$165.00/hr
Environmental Specialist/Archaeologist III .....	\$145.00/hr
Environmental Specialist/Archaeologist II .....	\$135.00/hr
Environmental Specialist/Archaeologist I .....	\$125.00/hr
Environmental Specialist/Architectural Historian II .....	\$150.00/hr
Environmental Specialist/Architectural Historian I .....	\$125.00/hr
Environmental Specialist/Paleontologist II .....	\$165.00/hr
Environmental Specialist/Paleontologist I .....	\$125.00/hr
Paleontological Technician III .....	\$85.00/hr
Paleontological Technician II .....	\$75.00/hr
Paleontological Technician I .....	\$55.00/hr
Cultural Resources Technician II .....	\$75.00/hr
Cultural Resources Technician I .....	\$55.00/hr

**CONSTRUCTION MANAGEMENT SERVICES**

Principal/Manager .....	\$195.00/hr
Senior Construction Manager .....	\$180.00/hr
Senior Project Manager .....	\$160.00/hr
Construction Manager .....	\$150.00/hr
Project Manager .....	\$140.00/hr
Resident Engineer.....	\$140.00/hr
Construction Engineer.....	\$135.00/hr
On-site Owner's Representative .....	\$130.00/hr
Construction Inspector III .....	\$125.00/hr
Construction Inspector II .....	\$115.00/hr
Construction Inspector I .....	\$105.00/hr
Prevailing Wage Inspector .....	\$135.00/hr

**COMPLIANCE SERVICES**

Compliance Director.....	\$205.00/hr
Compliance Manager .....	\$145.00/hr
Compliance Project Coordinator.....	\$105.00/hr
Compliance Monitor.....	\$95.00/hr

**HYDROGEOLOGICAL SERVICES**

Principal .....	\$260.00/hr
Principal Hydrogeologist/Engineer .....	\$240.00/hr
Sr. Hydrogeologist IV/Engineer IV .....	\$225.00/hr
Sr. Hydrogeologist III/Engineer III.....	\$210.00/hr
Sr. Hydrogeologist II/Engineer II.....	\$195.00/hr
Sr. Hydrogeologist I/Engineer I .....	\$180.00/hr
Hydrogeologist VI/Engineer VI .....	\$160.00/hr
Hydrogeologist V/Engineer V .....	\$150.00/hr
Hydrogeologist IV/Engineer IV .....	\$140.00/hr
Hydrogeologist III/Engineer III .....	\$130.00/hr
Hydrogeologist II/Engineer II .....	\$120.00/hr
Hydrogeologist I/Engineer I .....	\$110.00/hr
Technician .....	\$100.00/hr

**DISTRICT MANAGEMENT & OPERATIONS**

District General Manager.....	\$185.00/hr
District Engineer .....	\$175.00/hr
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Grade II Operator .....	\$63.00/hr
Grade I Operator .....	\$55.00/hr
Operator in Training.....	\$40.00/hr
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Collection Maintenance Worker I.....	\$45.00/hr

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Designer .....	\$145.00/hr
Assistant Designer.....	\$140.00/hr
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GIS Specialist I .....	\$125.00/hr
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CADD Drafter .....	\$105.00/hr
CADD Technician .....	\$100.00/hr

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Publications Specialist I .....	\$85.00/hr
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Clerical Administration I .....	\$85.00/hr

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**Annual Increases** – Unless identified otherwise, these standard rates will increase 3% annually.



**Date:** April 3, 2018

**Prepared By:** Jennifer Ares, Water Resource Manager

**Subject:** Consideration of the Proposal for the 2018 Habitat Monitoring Program Activities, Groundwater/Surface Water Data Assistance, Annual Report, and Watershed Budget Analysis

**Recommendation:** That the Board authorizes the District staff to execute a contract with Dudek for a sum not to exceed \$56,340.

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The Yucaipa Valley Water District currently discharges tertiary treated recycled water to the San Timoteo stream system. The riparian vegetation along San Timoteo Creek has been partially supported by the discharge of highly treated recycled water.

In order to maximize the reuse of recycled water, the District was granted a “change of point of discharge” agreement from the State Water Resources Control Board permitting the reduction of the discharge from San Timoteo Creek with definitive mitigation measures. Gradual reductions of the discharge along with an adaptive management plan are required to ensure the vegetation is not negatively impacted due to the reduction of recycled water flow.

In accordance with the results of a water use report prepared by SWCA Environmental Consultants in 2005, the District could reduce the discharge to maintain the existing habitat in San Timoteo Creek. In order to validate the reduction in flow, an annual habitat monitoring program has been in place and reports are prepared each year to determine the results of the reduction in creek discharges. The District is currently in its fifth year of reporting the habitat monitoring program activities.

The Habitat Monitoring Program for San Timoteo Creek defines the adaptive management plan components for San Timoteo Creek. The monitoring plan consist of vegetation analysis, aerial photo and groundwater monitoring. The cost breakdown associated with the Habitat Monitoring program are reflected in the Dudek proposal.

Financial Considerations:

Funding for this project will be from the Sewer Fund, GL 03-5-06-57030. This project was included in the 2017-18 budget.



MAIN OFFICE  
605 THIRD STREET  
ENCINITAS, CALIFORNIA 92024  
T 760.942.5147 T 800.450.1818 F 760.632.0164

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February 9, 2018

10440

Jennifer Ares  
Yucaipa Valley Water District  
12770 Second Street  
Yucaipa, California 92399

***Subject: Proposal for 2017-2018 Habitat Monitoring Program Activities,  
Groundwater and Surface Water Data Assistance, and Annual Report***

Dear Ms. Ares:

Dudek is pleased to submit this proposal to provide environmental consulting services to support the Yucaipa Valley Water District's Habitat Monitoring Program (HMP) in San Timoteo Creek for the 2017-2018 water year from October 1, 2017 to September 30, 2018 (2018 WY). This scope of work includes conducting a qualitative monitoring event in Spring 2018, a quantitative vegetation monitoring event in Fall 2018, annual color-infrared imagery collection for the study area and associated analysis, and an analysis of groundwater, surface water and precipitation data collected in the 2018 WY. All data and information collected will be compiled, evaluated and presented in an annual HMP report prepared at the end of the 2018 WY. Dudek will prepare a draft annual HMP report and submit to YVWD by December 15, 2018 for review.

## **SCOPE OF WORK**

### **Task 1 Spring Qualitative Monitoring**

Qualitative monitoring will be conducted in May 2018 and include taking photographs at permanent photo-monitoring stations, recording an inventory of plant species within each monitoring station, and conducting a general, qualitative assessment of habitat conditions in the HMP study area.

### **Task 2 Fall Vegetation Monitoring**

Quantitative vegetation monitoring will be completed in September 2018 for the annual fall vegetation monitoring. The fall vegetation monitoring includes the collection of 200 point-intercept data points at each of the three monitoring stations (MS1, MS2 and MS3) over 3 days by

WWW.DUDEK.COM



*Ms. Jennifer Ares*

*Subject: Proposal for WY 2017-2018 Habitat Monitoring Program Activities, Groundwater and Surface Water Data Assistance and Annual Report*

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Dudek biologists. In addition to collecting point-intercept data for estimating vegetation cover, the fall vegetation monitoring includes collecting photographs at permanent photo-monitoring stations within each monitoring site to document changes in qualitative conditions from year to year.

### **Task 3 Estimating Annual Riparian Density**

This task covers acquiring and analyzing color-infrared (CIR) imagery to estimate the annual extent of riparian vegetation in the study area as required under the HMP. This task includes the collection of high resolution (0.5-foot pixel resolution) color-infrared aerial imagery of the HMP study area by Central Coast Aerial Mapping, Inc. The flight and imagery specifications will be identical to the 2017 collection. The flight is scheduled to occur in September concurrent with the quantitative vegetation monitoring conducted at that time. Collection of high-resolution imagery and processing to provide precise ortho-rectification will ensure consistent application of semi-automated year-to-year imagery analysis.

Quantifying the acreage of riparian vegetation (i.e., riparian density) will be conducted by creating Normalized Difference Vegetation Index (NDVI) layers using available tools in ArcGIS. NDVI is a widely used spectral index based on the differential reflectance that plants exhibit for different parts of the solar radiation spectrum (Fu and Burgher 2015).

Dudek biologists will review the NDVI values and established thresholds for classifying and quantifying the extent of riparian vegetation. Using NDVI values and determining corresponding classifications is a more objective approach to analyzing aerial imagery limiting subjectivity associated with aerial interpretation by individual observers. Dudek uses the NDVI approach to reduce potential inter-annual and inter-observer variability inherent with on-screen interpretation of aerial imagery.

### **Task 4 Groundwater and Surface Water Data Compilation and Analysis**

This task includes compiling and analyzing groundwater level data recorded in dedicated pressure transducers at wells OW-1T, OW-1P, OW-2P, OW-3P OW-4A/4B, OW-5A/5B, and OW-6A/6B in 2017 and 2018. Hydrographs depicting historical water levels at each well will be updated with the 2018 WY data along with daily precipitation data from nearby climatic data stations. This task also includes compiling and analyzing surface water data from YVWD and daily effluent discharges to San Timoteo Creek collected in 2018 WY.

All data will be compiled and organized to evaluate the potential effect of effluent discharge to shallow groundwater levels in the San Timoteo Creek corridor by comparing to baseline data collected since 2012. Included in this task are the costs to renew the annual cellular data plans and

*Ms. Jennifer Ares*

*Subject: Proposal for WY 2017-2018 Habitat Monitoring Program Activities, Groundwater and Surface Water Data Assistance and Annual Report*

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HydroVu service provided by In-Situ, Inc. for transmitting data from the individual remote telemetry systems installed at nine wells in the San Timoteo Creek corridor.

## **Task 5 HMP Annual Report WY 2017-2018**

This task includes preparing the 2018 annual monitoring report for the 2017-2018 water year from October 1, 2017 through September 30, 2018. The report will include an assessment of riparian habitat conditions based on photo-monitoring data collected in Spring 2018, quantitative vegetation monitoring data from Fall 2018, and quantifying riparian acreage using CIR imagery collected in Fall 2018. The report will describe the results of the monitoring relative to the adaptive management thresholds identified in the HMP. Observed changes in habitat conditions will be assessed and potential causes of the change will be described.

In addition, the report will document groundwater related information including water levels measured at the observation wells, precipitation data, and effluent discharge data. This section will include a synopsis of the water level data collected during the monitoring period and an analysis of water level fluctuations (both diurnal and seasonal) and possible influences by precipitation and stream flow resulting from storm water runoff or treated wastewater effluent discharges to San Timoteo Creek. The water levels at each location will be compared to the adaptive management thresholds established in the HMP.

Dudek will deliver a draft 2018 WY HMP report to YVWD to review and provide comments by December 14, 2018.

## **COST SUMMARY**

All costs will be billed on a time and materials basis in accordance with our 2018 Standard Schedule of Charges, a copy of which is attached. The cost estimate for this contract amendment is provided in Table 1 below.

**Table 1 Cost Estimate**

<b>Task No.</b>	<b>Task Description</b>	<b>Cost Estimate</b>
1	Spring Qualitative Monitoring	\$2,210.00
2	Fall Vegetation Monitoring	\$9,230.00
3	Estimating Annual Riparian Density	\$6,270.00
5	Groundwater and Surface Water Data Compilation and Analysis	\$13,200.00
6	HMP Annual Report (WY 2016-17)	\$25,420.00
	<b>Total</b>	<b>\$56,340.00</b>

*Ms. Jennifer Ares*

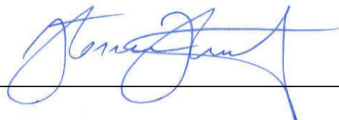
*Subject: Proposal for WY 2017-2018 Habitat Monitoring Program Activities, Groundwater and Surface Water Data Assistance and Annual Report*

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Dudek appreciates the opportunity to continue working with the District. The total fee for providing services for the HMP program, including monthly riparian productivity analyses from April to September, is \$56,340.

Should you have any questions, please do not hesitate to contact me. I can be reached at 760.479.4128.

Sincerely,



---

Steven Stuart, PE C79764  
Project Manager/Hydrogeologist

*att: 2018 Standard Schedule of Charges*

**DUDEK  
2018 STANDARD SCHEDULE OF CHARGES**

**ENGINEERING SERVICES**

Project Director .....	\$275.00/hr
Principal Engineer III.....	\$245.00/hr
Principal Engineer II .....	\$235.00/hr
Principal Engineer I .....	\$225.00/hr
Program Manager .....	\$215.00/hr
Senior Project Manager .....	\$215.00/hr
Project Manager .....	\$210.00/hr
Senior Engineer III .....	\$205.00/hr
Senior Engineer II .....	\$195.00/hr
Senior Engineer I .....	\$185.00/hr
Project Engineer IV/Technician IV .....	\$175.00/hr
Project Engineer III/Technician III.....	\$165.00/hr
Project Engineer II/Technician II .....	\$150.00/hr
Project Engineer I/Technician I .....	\$135.00/hr
Project Coordinator .....	\$105.00/hr
Engineering Assistant .....	\$100.00/hr

**ENVIRONMENTAL SERVICES**

Principal .....	\$240.00/hr
Senior Project Manager/Specialist II .....	\$225.00/hr
Senior Project Manager/Specialist I .....	\$215.00/hr
Environmental Specialist/Planner VI .....	\$195.00/hr
Environmental Specialist/Planner V .....	\$175.00/hr
Environmental Specialist/Planner IV .....	\$165.00/hr
Environmental Specialist/Planner III .....	\$155.00/hr
Environmental Specialist/Planner II .....	\$140.00/hr
Environmental Specialist/Planner I .....	\$125.00/hr
Analyst III .....	\$115.00/hr
Analyst II .....	\$105.00/hr
Analyst I .....	\$95.00/hr
Planning Assistant II .....	\$85.00/hr
Planning Assistant I .....	\$75.00/hr

**COASTAL PLANNING/POLICY SERVICES**

Senior Project Manager/Coastal Planner II .....	\$220.00/hr
Senior Project Manager/Coastal Planner I .....	\$210.00/hr
Environmental Specialist/Coastal Planner VI .....	\$200.00/hr
Environmental Specialist/Coastal Planner V .....	\$180.00/hr
Environmental Specialist/Coastal Planner IV .....	\$170.00/hr
Environmental Specialist/Coastal Planner III .....	\$160.00/hr
Environmental Specialist/Coastal Planner II .....	\$150.00/hr
Environmental Specialist/Coastal Planner I .....	\$140.00/hr

**CULTURAL AND PALEONTOLOGICAL SERVICES**

Senior Project Manager/Archaeologist II .....	\$215.00/hr
Senior Project Manager/Archaeologist I .....	\$205.00/hr
Environmental Specialist/Archaeologist V .....	\$185.00/hr
Environmental Specialist/Archaeologist IV .....	\$165.00/hr
Environmental Specialist/Archaeologist III .....	\$145.00/hr
Environmental Specialist/Archaeologist II .....	\$135.00/hr
Environmental Specialist/Archaeologist I .....	\$125.00/hr
Environmental Specialist/Architectural Historian II .....	\$150.00/hr
Environmental Specialist/Architectural Historian I .....	\$125.00/hr
Environmental Specialist/Paleontologist II .....	\$165.00/hr
Environmental Specialist/Paleontologist I .....	\$125.00/hr
Paleontological Technician III .....	\$85.00/hr
Paleontological Technician II .....	\$75.00/hr
Paleontological Technician I .....	\$55.00/hr
Cultural Resources Technician II .....	\$75.00/hr
Cultural Resources Technician I .....	\$55.00/hr

**CONSTRUCTION MANAGEMENT SERVICES**

Principal/Manager .....	\$195.00/hr
Senior Construction Manager .....	\$180.00/hr
Senior Project Manager .....	\$160.00/hr
Construction Manager .....	\$150.00/hr
Project Manager .....	\$140.00/hr
Resident Engineer .....	\$140.00/hr
Construction Engineer .....	\$135.00/hr
On-site Owner's Representative .....	\$130.00/hr
Construction Inspector III .....	\$125.00/hr
Construction Inspector II .....	\$115.00/hr
Construction Inspector I .....	\$105.00/hr
Prevailing Wage Inspector .....	\$135.00/hr

**COMPLIANCE SERVICES**

Compliance Director .....	\$205.00/hr
Compliance Manager .....	\$145.00/hr
Compliance Project Coordinator .....	\$105.00/hr
Compliance Monitor .....	\$95.00/hr

**HYDROGEOLOGICAL SERVICES**

Principal .....	\$260.00/hr
Principal Hydrogeologist/Engineer .....	\$240.00/hr
Sr. Hydrogeologist IV/Engineer IV .....	\$225.00/hr
Sr. Hydrogeologist III/Engineer III .....	\$210.00/hr
Sr. Hydrogeologist II/Engineer II .....	\$195.00/hr
Sr. Hydrogeologist I/Engineer I .....	\$180.00/hr
Hydrogeologist VI/Engineer VI .....	\$160.00/hr
Hydrogeologist V/Engineer V .....	\$150.00/hr
Hydrogeologist IV/Engineer IV .....	\$140.00/hr
Hydrogeologist III/Engineer III .....	\$130.00/hr
Hydrogeologist II/Engineer II .....	\$120.00/hr
Hydrogeologist I/Engineer I .....	\$110.00/hr
Technician .....	\$100.00/hr

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**Annual Increases** – Unless identified otherwise, these standard rates will increase 3% annually.



**Date:** April 3, 2018

**Prepared By:** Jennifer Ares, Water Resource Manager

**Subject:** Public Hearing for the Initial Study / Mitigated Negative Declaration Related to the Maintenance of the Wilson Creek Basins and to Facilitate the Surface Recharge of Recycled Water

**Recommendation:** That the Board conducts a public hearing and consider the adoption of Resolution 2018-15 Certifying the Final Mitigated Negative Declaration for the Wilson Creek Basins Water Recharge Project.

Yucaipa Valley Water District (District) imports water for local groundwater recharge in the Wilson Creek Basins (Basins). San Bernardino County Flood Control District (SBCFCD) owns the flood control basins and San Bernardino Valley Municipal Water District has a Use Agreement with SBCFCD to operate the basins. The District is the primary agency that utilizes the Wilson Creek Basins for recharge activities.

The Project would provide for the recharge of highly treated recycled water from the Wochholz Regional Water Recycling Facility as well as the water from the State Water Project. This Project will increase the available water supplies to the District and provide the basic permits necessary for the District periodically scarify the bottom of the basins to maintain effective recharge at this location.



Pursuant to the requirements of the California Environmental Quality Act (CEQA), the District was required to prepare an Initial Study/Mitigated Negative Declaration for the proposed recharge of recycled water and maintenance at the Basins located adjacent to Wilson Creek. The entire Mitigated Negative Declaration can be downloaded from the District website, [www.yvwd.dst.ca.us](http://www.yvwd.dst.ca.us). The comment letters and responses are included below.



## PUBLIC HEARING PROCESS

The following process was developed to encourage and facilitate public participation by identifying when public comments and testimony are received during the agenda item.

### **RESOLUTION NO. 2018-15**

#### **A RESOLUTION OF THE YUCAIPA VALLEY WATER DISTRICT CERTIFYING THE FINAL MITIGATED NEGATIVE DECLARATION FOR THE WILSON CREEK BASINS WATER RECHARGE PROJECT**

- \_\_\_\_\_ **Staff Presentation** - A District staff member will provide a brief presentation and overview of this agenda item.
  
- \_\_\_\_\_ **Questions by the Board of Directors to District Staff** - The Board President will ask if there are any questions at this time from board members based on the staff presentation.
  
- \_\_\_\_\_ **Open the Public Hearing** - The Board President will open the public hearing stating the time of day to be recorded in the board meeting minutes.
  
- \_\_\_\_\_ **Comments from the Public and Property Owners** - The Board of Directors will request written and oral comments from the public as part of the deliberation and consideration process. The Board of Directors will be focused on receiving information to assist in the decision-making process and will not answer questions or debate an issue. This portion of the public hearing process provides an opportunity for the public and property owners to enter information into the record that should be considered by the Board of Directors.
  
- \_\_\_\_\_ **Close the Public Hearing** - The Board President will close the public hearing stating the time of day to be recorded in the board meeting minutes.
  
- \_\_\_\_\_ **Final Comments by District Staff** - The District staff may provide additional information and clarification of issues discussed during the public hearing process to assist the deliberation by the Board of Directors.
  
- \_\_\_\_\_ **Questions by the Board of Directors** - The Board President will determine if there are any questions from the Board of Directors.
  
- \_\_\_\_\_ **Entertain a motion from the Board** - The Board President will ask for a motion from the Board of Directors based on information presented.



## RESOLUTION NO. 2018-15

### **A RESOLUTION OF THE YUCAIPA VALLEY WATER DISTRICT CERTIFYING THE FINAL MITIGATED NEGATIVE DECLARATION FOR THE WILSON CREEK BASINS WATER RECHARGE PROJECT**

WHEREAS, the Yucaipa Valley Water District (the "District") is a public agency of the State of California organized and existing pursuant to the provisions of the County Water District Law of this State (Section 30000, et seq. of the Water Code); and

WHEREAS, the Yucaipa Valley Water District (the "District") has prepared a Mitigated Negative Declaration for the Wilson Creek Basins Water Recharge Project (the "Project").

WHEREAS, pursuant to Section 15072 of the California Environmental Quality Act (CEQA) guidelines, the District has made the Mitigated Negative Declaration available for public review to receive comments on the proposed Project.

WHEREAS, the District held a duly-noticed public hearing on April 3, 2018 to determine the adequacy of the Mitigated Negative Declaration and if adequate shall certify the document as compliant with CEQA.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Yucaipa Valley Water District, as follows:

Section 1. Based on the Mitigated Negative Declaration, the comments received thereon, and the record before the Board of Directors, the Board hereby finds that the environmental documentation prepared for the Project represents the independent judgment of the Board and the District and that, with implementation of the mitigation monitoring, reporting and compliance program, there is no substantial evidence that the approval of the Project will have any significant environmental impact. The documents and other material which constitute the record on which this decision is based are located in the District's office, located at 12770 Second Street, Yucaipa, California, and are in the custody of the Secretary and also at [www.yvwd.dst.ca.us](http://www.yvwd.dst.ca.us)

Section 2. Based upon the foregoing, the Board hereby adopts the Mitigated Negative Declaration.

Section 3. The Board hereby orders that the Mitigation Monitoring, Reporting and Compliance Program shall be implemented as set forth.

PASSED, APPROVED and ADOPTED this 3<sup>rd</sup> day of April 2018.

YUCAIPA VALLEY WATER DISTRICT

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Jay Bogh, President Board of Directors

ATTEST:

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Joseph B. Zoba, General Manager

**REVISED NOTICE OF PUBLIC HEARING  
DRAFT MITIGATED NEGATIVE DECLARATION  
WILSON CREEK BASINS WATER RECHARGE PROJECT**

- 1. Project Title:** Wilson Creek Basins Water Recharge Project
- 2. Lead Agency Name and Address:** Yucaipa Valley Water District
- 3. Contact Person and Phone Number:** Jennifer Ares, Water Resource Manager  
Yucaipa Valley Water District
- 12770 Second Street  
Yucaipa, California 92399  
909-790-3301  
[jares@yvwd.us](mailto:jares@yvwd.us)
- 4. Project Location:** City of Yucaipa
- 5. Project Sponsor's Name:** Yucaipa Valley Water District  
12770 Second Street
- Yucaipa, California 92399

NOTICE IS HEREBY GIVEN THAT in accordance with the California Environmental Quality Act (CEQA) and the State CEQA Guidelines, the Yucaipa Valley Water District (District) is the Lead Agency for the proposed Wilson Creek Basins Water Recharge Project (Project). The District prepared a Draft Mitigated Negative Declaration (MND) for the Project pursuant to CEQA and the State CEQA Guidelines. The District distributed a Notice of Intent (NOI) to Adopt the MND to agencies that have permit authority over the Project, interested groups, and organizations in accordance with CEQA and held a 30-day public review period from December 11, 2017 through January 12, 2018.

The Project would provide additional recharge of the Yucaipa groundwater subbasin by surface application of highly treated recycled water from the Wochholz Regional Water Recycling Facility (WRWRF) at the Wilson Creek Basins (Basins), as well as surface application of surplus water from the State Water Project (SWP) delivered via the SWP East Branch Extension. The Yucaipa subbasin is located within the Upper Santa Ana Valley groundwater basin, and currently serves as a local source of drinking water that is recharged by natural underflow from upgradient groundwater subbasins, as well as by deep percolation of precipitation and streambed infiltration. The Basins are currently used to recharge SWP water and have 7,000 acre-feet per year recharge capacity. If SWP water is unavailable, additional diluent may be provided by applying potable water to the Basins from the Yucaipa Valley Regional Water Filtration Facility (YVRWFF), located adjacent to the spreading basins. A new pipeline would be constructed to convey recycled water from the District's existing recycled water distribution system to the Basins, as well as a new booster pump station and up to two monitoring wells.

The District was recently informed of additional SWP water supply available to the District for purchase. The District intends to purchase the additional water from two SWP wholesaler contractors, San Bernardino Valley Municipal Water District (Valley District) and San Geronimo Pass Water Agency (SGPWA), for purposes of recharging the Basins year-round as available. No new pipeline construction would be needed to provide surplus SWP water to the Basins, given that SWP pipeline infrastructure used to provide SWP water to the Basins already exists.

The District's Board of Directors will consider the Project and the MND at a Board of Directors' public hearing to be held on April 3, 2018. The hearing will be held at 6:00 pm at the District's offices at the address shown above.

A copy of the draft MND is available for review at the District's offices at the address shown above Monday through Friday, 8:00 a.m. to 5:00 p.m. In addition, the District has copies of the draft MND available online at: <http://www.yvwd.dst.ca.us/>.



State of California – Natural Resources Agency  
DEPARTMENT OF FISH AND WILDLIFE  
Inland Deserts Region  
3602 Inland Empire Boulevard, Suite C-220  
Ontario, CA 91764  
(909) 484-0167  
[www.wildlife.ca.gov](http://www.wildlife.ca.gov)

**EDMUND G. BROWN JR., Governor**  
**CHARLTON H. BONHAM, Director**



January 12, 2018  
*Sent via email*

Ms. Jennifer Ares  
Water Resources Manager  
Yucaipa Valley Water District  
12770 Second Street  
Yucaipa, CA 92399  
[jares@yvwd.us](mailto:jares@yvwd.us)

Subject: Initial Study with Proposed Mitigated Negative Declaration  
Wilson Creek Basins Water Recharge Project  
State Clearinghouse No. 2017121028

Dear Ms. Ares:

The Department of Fish and Wildlife (Department) appreciates the opportunity to comment on the Initial Study (IS) and proposed Mitigated Negative Declaration (MND) for the Wilson Creek Basins Water Recharge Project (project) [State Clearinghouse No. 2017121028]. The Department is responding to the IS/MND as a Trustee Agency for fish and wildlife resources (California Fish and Game Code Sections 711.7 and 1802, and the California Environmental Quality Act [CEQA] Guidelines Section 15386), and as a Responsible Agency regarding any discretionary actions (CEQA Guidelines Section 15381), such as the issuance of a Lake or Streambed Alteration Agreement (California Fish and Game Code Sections 1600 *et seq.*) and/or a California Endangered Species Act (CESA) Permit for Incidental Take of Endangered, Threatened, and/or Candidate species (California Fish and Game Code Sections 2080 and 2080.1).

The project proposes the construction of a pump station, recycled water pipelines, basin outlet structures, and two monitoring wells to facilitate the transfer of treated wastewater from Yucaipa Valley Water District's existing Wochholz Regional Water Recycling Facility to the Wilson Creek Basins for groundwater recharge. Wastewater proposed for discharge to the Wilson Creek Basins is currently discharged to San Timoteo Creek. The project also includes the scarification of the existing Wilson Creek Basins to facilitate water percolation for groundwater recharge. Scarification will involve the removal of an unknown quantity of sediment and vegetation from within the basins approximately once every six months. The Wilson Creek Basins are located north of Oak Glen Road and east of Bryant Street, in the City of Yucaipa, San Bernardino County, California.

*Conserving California's Wildlife Since 1870*



Mitigated Negative Declaration  
Wilson Creek Basins Water Recharge Project  
SCH No. 2017121028  
Page 2

## COMMENTS AND RECOMMENDATIONS

The Department has jurisdiction over the conservation, protection, and management of fish, wildlife, native plants, and the habitat necessary for biologically sustainable populations of those species (i.e., biological resources); and administers the Natural Community Conservation Planning Program (NCCP Program). The Department offers the comments and recommendations presented below to assist the Yucaipa Valley Water District (YVWD; the CEQA lead agency) in adequately identifying and/or mitigating the project's significant, or potentially significant, impacts on biological resources. These comments and recommendations are based on the requirement for the environmental document to include the following information:

- Identification of environmental impacts of the proposed project (CEQA Guidelines, §§ 15063, 15065, 15126, 15126.2, 15126.6 & 15358).
- A description of feasible mitigation measures to avoid potentially significant impacts, and/or mitigate significant impacts, of the proposed project on the environment (CEQA Guidelines, §§ 15021, 15063, 15071, 15126.2, 15126.4 & 15370).

### Environmental Impacts

The Department disagrees with YVWD's assertion that the "basins are not subject to CDFW jurisdiction under CFGC under section 1602" (IS, page 3-19). Review of aerial photography clearly depicts that the Wilson Creek Basins were constructed within the Wilson Creek and its floodplain, and there has been a physical connection between the basins and Wilson Creek for decades. The IS recognizes the existence of this connection by referencing that the basins are used for the recharge of stormflows from Wilson Creek. The Administrative record further supports the Department's position: San Bernardino County Flood Control has a streambed alteration agreement for the operation and maintenance of the Wilson Creek Basins, and San Bernardino Valley Municipal Water District notified the Department under section 1602 of the Fish and Game Code for the construction of the Wilson Creek Turnout Project.

The Department recommends that prior to adoption of the MND, YVWD condition a new mitigation measure requiring submission of a Notification of Lake or Streambed Alteration to the Department's Lake and Streambed Alteration Program at the Ontario office. Specifically, the Department requests that YVWD condition the inclusion of the following new mitigation measure in the MND:

**Mitigation Measure:** Prior to commencement of project activities YVWD shall obtain either of the following:



Mitigated Negative Declaration  
Wilson Creek Basins Water Recharge Project  
SCH No. 2017121028  
Page 3

*Written correspondence from the California Department of Fish and Wildlife stating that notification under Section 1602 of the California Fish and Game Code is not required for the project; or a copy of a Department-executed Lake or Streambed Alteration Agreement, authorizing impacts to California Fish and Game Code, section 1602 resources associated with the project.*

#### Mitigation Measures

Following review of the IS and MND, the Department is concerned by the lack of feasible mitigation measures to avoid potentially significant impacts, and/or mitigate significant impacts to declining natural vegetation communities and species of special concern.

The IS identifies the presence of scale broom (*Lepidospartum squamatum*) within the project site and small mammal species of special concern (northwestern San Diego pocket mouse, *Chaetodipus fallax*). Scale broom scrub has an overall rarity ranking of G3 S3, with some associations within the scale broom scrub alliance (i.e., Riversidean alluvial fan sage scrub) being listed as rare as G1 S1.1. Based on review of the CEQA document it is unclear to the Department the level of impacts that will occur to sensitive species within the project site. The Department is also concerned that the CEQA document fails to provide an assessment of the cumulative impacts to these sensitive species. Urban development and past and current flood control projects within the immediate project vicinity has resulted, or will soon result, in the loss of alluvial sage scrub and the sensitive species supported by this community within the sphere of the City of Yucaipa. Given the continuing loss of natural habitat, and further isolation of remaining areas of natural habitat within the City of Yucaipa, the Department argues that any impact to natural habitats supporting species of special concern is a significant impact warranting appropriate compensatory mitigation.

The Department recommends that prior to adoption of the MND the YVWD complete a cumulative effects analysis of impacts to scale broom scrub alliance and associated sensitive plant and animal species within the sphere of the City of Yucaipa. The Department further recommends that YVWD incorporate appropriate, defensible, and enforceable mitigation measures in the MND, or fully disclose the rationale as to why compensatory mitigation is not necessary.

Mitigated Negative Declaration  
Wilson Creek Basins Water Recharge Project  
SCH No. 2017121028  
Page 4

#### **Department Conclusions and Further Coordination**

The Department appreciates the opportunity to comment on the IS/MND for the Wilson Creek Basins Recharge Project (SCH No. 2017121028), and we request that the Yucaipa Valley Water District address the Department's comments and concerns prior to adoption of the MND. If you should have any questions pertaining to the comments provided in this letter, please contact Joanna Gibson at (909) 987-7449 or at [joanna.gibson@wildlife.ca.gov](mailto:joanna.gibson@wildlife.ca.gov).

Sincerely,

  
For Leslie MacNair  
Regional Manager



## Yucaipa Valley Water District

12770 Second Street • P. O. Box 730 • Yucaipa, California 92399-0730  
(909) 797-5117 • Fax: (909) 797-6381 • [www.yvwd.dst.ca.us](http://www.yvwd.dst.ca.us)

March 2, 2018

Leslie MacNair / Joanna Gibson  
California Department of Fish and Wildlife  
Inland Deserts Region  
3602 Inland Empire Blvd, Suite C-220  
Ontario, CA 91764

**Subject: Response to Comments Received from CDFW Regarding the Wilson Creek Basins Recycled Water Recharge Project Initial Study / Mitigated Negative Declaration**

Dear Ms. MacNair and Ms. Gibson:

Thank you for submitting comments on the Yucaipa Valley Water District's (District) Wilson Creek Basins Water Recharge Project Initial Study/Mitigated Negative Declaration (MND). We appreciate California Department of Fish and Wildlife (CDFW) support for development of recycled water and we fully considered the comments included in your January 12, 2018 letter. Following are responses to your submitted comments.

**Attachment 1** identifies the comment numbering we have used in organizing our responses.

**Comment 1: CDFW Jurisdiction**

The Biological Resources Assessment (Appendix B of the MND) concluded that the Wilson Basins are not subject to CDFW jurisdiction under California Fish and Game Code (CFGF) Section 1602 due to the lack of evidence of streambed and bank features and riparian habitat. The Basins are designed solely for artificial groundwater recharge and do not detain or retain water, and thus do not meet CDFW's definition of a "lake" as a "natural or man-made reservoir." However, given your comments and precedent set by San Bernardino County Flood Control and San Bernardino Valley Municipal Water District in notifying CDFW under CFGF Section 1602 of construction and maintenance activities within the Basins, the District will commit to consult formally with CDFW in order to come to a common understanding regarding a CDFW jurisdictional determination.

The Jurisdictional Aquatic Resources section of the MND (pages 3-18 through 3-19 of the MND) and Mitigation Measure BIO-1 (page 3-22 of the MND) have been revised to reflect this commitment, which will contribute to mitigation of the Project's impacts on RAFSS habitat. Attachment 1 contains the revisions to several paragraphs of the Biological Resources section (pages 3-15 through 3-27 of the MND) (new text is underlined, deleted text is shown in ~~strikeout~~) to clarify this commitment.

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Directors and Officers

---

CHRISTOPHER MANN  
Division 1

BRUCE GRANLUND  
Division 2

JAY BOGH  
Division 3

LONNI GRANLUND  
Division 4

THOMAS SHALHOUB  
Division 5

JOSEPH B. ZOBA  
General Manager  
and Secretary



**Comment 2: Mitigation Measure for CDFW Section 1602**

Mitigation Measure BIO-1 of the MND has been revised to reflect the District's commitment to consult formally with CDFW on their jurisdiction. Attachment 1 contains the revisions to several paragraphs of the Biological Resources section (pages 3-15 through 3-27 of the MND) (new text is underlined, deleted text is shown in ~~strikeout~~) to clarify this commitment.

**Comment 3: Scale Broom Scrub**

The comment notes that Riversidean Alluvial Fan Sage Scrub (RAFSS) is a sub-classification of Scale Broom Scrub, and both community types are designated as sensitive by CDFW. The MND and Biological Resources Assessment (Appendix B of the MND) document the presence of RAFSS on the project site and describe the site as situated within a previously developed area of groundwater recharge basins. The RAFSS that is present within the site is not naturally occurring, but rather comprised of species that re-vegetated the developed slopes of the Basins. Therefore, it is disturbed and of lower functional value than naturally occurring RAFSS within Wilson Creek. The site is also subject to ongoing operations and maintenance activities associated with groundwater recharge, which further reduce the quality of the habitat. Nonetheless, the MND and Biological Resources Assessment identified the community as sensitive, evaluated potential impacts to the community, and prescribed Mitigation Measure BIO-1 to reduce these impacts. The clarification of Mitigation Measure BIO-1, as described above and Attachment 1, would further minimize potential impacts to RAFSS within the site.

The MND and Biological Resources Assessment evaluated the potential presence of State Species of Special Concern, including the northwestern San Diego pocket mouse (see Sections 4.2, 5.1, and Appendix C of the Biological Resources Assessment). As described in these sections, and the response above, the RAFSS habitat within the site is not naturally occurring, but rather re-vegetated on previously developed slopes, which reduces the suitability of the habitat for Species of Special Concern. Further, as noted in Section 5 of the Biological Resources Assessment, the permanent removal of a small amount (0.037 acre in Scenario RW1 and 0.045 acre in Scenario RW2) of disturbed RAFSS habitat, along with temporary impacts (0.489 in Scenario RW1 and 0.188 acre in Scenario RW2), would not substantially reduce habitat for Species of Special Concern and are not likely to cause the populations of any Species of Special Concern to drop below self-sustaining levels. Mitigation Measure BIO-1 requires revegetation of the areas of temporary disturbance, which would further minimize potential impacts. Therefore, as determined in the MND and Biological Resources Assessment, potential projects impacts to Species of Special Concern would be less than significant. (As discussed in Section 5.1.1 of the Biological Resources Assessment, the San Bernardino kangaroo rat is evaluated separately given its status as a federally endangered species.)

**Comment 4: Cumulative Impact Analysis**

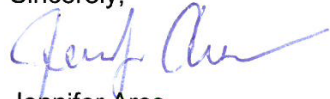
As described in the MND, the Biological Resources Assessment, and the responses above, impacts to Scale Broom Scrub alliance (i.e., RAFSS) and sensitive plant and wildlife species, would be less than significant. Impact 3.19b in the MND (page 3-72) acknowledges that for RAFSS and nesting birds, Project impacts would be minimized by preconstruction surveys and avoidance measures, and would not be cumulatively considerable. Implementation of Mitigation Measure BIO-1 would further reduce potential project impacts. While the District recognizes the sensitivity of naturally occurring alluvial scrub within the City of Yucaipa in general, the proposed project would result in permanent impacts to 0.037 acre in Scenario RW1 and 0.045 acre in Scenario RW2 of disturbed / revegetated RAFSS within actively managed groundwater recharge basins. Given the degraded condition of this community compared with naturally occurring habitat

nearby, the limited project impacts, and the proposed mitigation, potential impacts to RAFSS or sensitive plant and wildlife species would not be cumulatively considerable.

**Comment 5: Conclusion**

The District appreciates the comments provided by CDFW on the MND. We look forward to working with CDFW, moving forward to expand water recycling and groundwater recharge within our community.

Sincerely,



Jennifer Ares  
Yucaipa Valley Water District  
Water Resources Manager



## Attachment 1 Additions to Final MND

### 3.1 BIOLOGICAL RESOURCES

#### *Excerpt from pages 3-18 through 3-19 of the MND*

**Jurisdictional Aquatic Resources.** The Project site is immediately adjacent to Wilson Creek, which is mapped by the National Wetlands Inventory (NWI) as a seasonally flooded, intermittent riverine streambed. The creek is vegetated predominately by upland species (scalebroom). No water was present within Wilson Creek during the time of the 2017 BRA survey. The creek is contained by concrete and earthen berms to the north and south, and under typical conditions (non-flood), remains divided from the Project site.

As previously discussed, the Project site is home to five constructed recharge/infiltration basins. Basin 1 is a debris basin and the Basin 5 is a serpentine basin. At the time of the survey, neither of these two basins held water. Captured runoff and overflow does not appear to currently discharge from Basin 1 once collected. However, this could change after Project implementation. The three center basins (Basins 2, 3 and 4) were in active use for SWP water replenishment during the site visit. Standing water was present in these basins, along with submerged RAFSS vegetation.

Wilson Creek meets the definition of a U.S. Army Corps of Engineers (USACE) and Regional Water Quality Control Board (RWQCB) jurisdictional aquatic resource under Clean Water Act (CWA) Sections 404 and 401 because it is a tributary to a known water of U.S. (San Timoteo Creek). In addition, the creek is subject to CDFW jurisdiction under California Fish and Game Code (CFG) Section 1602. As Wilson Creek was determined to be beyond the limits of proposed construction for the Project, no further analysis was conducted.

The Basins were previously constructed, are currently used for groundwater replenishment, and do not have a direct hydrologic connection (i.e., flow discharge) with Wilson Creek. They are dominated by upland RAFSS and ruderal plant species, and do not contain a preponderance of hydrophytic (i.e., wetland) vegetation. The Basins do not contain evidence of hydrologic flow, including an Ordinary High-Water Mark (OHWM) or defined streambed, bank, or channel features.

The Basins were determined to be outside of federal (USACE) jurisdiction. By design, the infiltration basins do not release water except by percolation, evaporation, or emergency overflow during flood conditions. As such, at the federal level, the manmade features are not tributaries of navigable waters and are, thus, not subject to review by the USACE. In the absence of USACE jurisdiction, the Basins are not subject to the jurisdiction of the RWQCB under CWA Section 401. However, the RWQCB may regulate the Basins for the purpose of groundwater recharge under the Porter Cologne Water Quality Control Act.

The Basins ~~are~~ may not be subject to CDFW jurisdiction under CFGC Section 1602. As noted ~~previously in the Biological Resources Assessment in Appendix B~~, the basins lack evidence of streambed and bank features and riparian habitat. While water and scattered vegetation was present within three of the five basins during the field survey, CDFW defines “lake” as a “natural or man-made reservoir.” The onsite basins are designed solely for artificial groundwater recharge, and not to detain or retain water. Therefore, they do not meet this definition as a reservoir. However, precedence established by San Bernardino County Flood Control and San Bernardino Valley Municipal Water District in notifying CDFW under CFGC Section 1602 of construction and maintenance activities within the Basins indicates that the Basins are subject to CDFW jurisdiction.



**Excerpt from page 3-22 of the MND****a) Less Than Significant with Mitigation Incorporated****Scenario RW1**

The site was assessed for sensitive species known to occur locally. None of the sensitive wildlife species identified in the literature review were observed within the Project area during the biological survey. No sensitive plant species were observed on site during the biological survey and none are expected to occur. Areas of the Project site where the monitoring wells and pump station would be located are areas that have been previously disturbed and which do not contain riparian habitat nor support any sensitive natural communities.

**RAFSS**

Under Scenario RW1, approximately 0.037 acre of RAFSS would be permanently impacted, and 0.489 acre would be temporarily impacted. ~~However, r~~Removal of this vegetation ~~is~~ may be considered a less than significant impact, given that the vegetation is isolated and has been previously degraded as part of the initial basin site development and ongoing basin management. ~~Nonetheless, However, given that the RAFSS may be subject to CDFW jurisdiction under CFGC Section 1602,~~ RAFSS habitat should be avoided to the greatest extent feasible in consultation with CDFW's Streambed Alteration Agreement program. ~~through i~~Implementation of Mitigation Measure BIO-1 will reduce potential impacts on special status habitat and species to less than significant.

**Mitigation Measure BIO-1: Avoidance and Mitigation of RAFSS Habitat**

Prior to commencement of Project activities, the District shall obtain either written correspondence from CDFW stating that notification under CFGC Section 1602 is not required for the project; or a copy of a CDFW-authorized Streambed Alteration Agreement authorizing impacts to streambed resources associated with the Project.

In accordance with this CDFW consultation, tThe Project's construction contractor shall implement the following avoidance measures for construction near RAFSS habitat:

- The Project's work limits shall be staked, fenced, and/or marked, with materials clearly visible to construction personnel to prevent encroachment upon sensitive vegetation communities, particularly within Wilson Creek corridor;
- No construction access, parking, or storage of equipment or materials shall be permitted outside of these marked areas;
- Access roads and work areas shall be periodically sprayed with water to reduce the potential for dust accumulation on the leaves of adjacent sensitive vegetation communities not proposed for impacts;
- Erosion and sediment control Best Management Practices (BMPs) (i.e., silt fences, straw wattles, sand bags, etc.) shall be implemented and installed during the proposed project; and
- Temporarily impacted areas of RAFSS shall be re-seeded with a mix of in-kind species.

**Excerpt from page 3-24 of the MND****Scenario RW2**

Except for RAFSS, the impact for Scenario RW1 pursuant to this criterion would be the same for Scenario RW2.

**RAFSS**

Under Scenario RW2, approximately 0.045 acre of RAFSS would be permanently impacted, and 0.188 acre would be temporarily impacted. However, removal of this vegetation ~~is~~ may be considered a less than significant impact, given that the vegetation is isolated and has been previously degraded as part of the initial basin site development and ongoing basin management. However, given that the Basins may be subject to CDFW jurisdiction under CFGC Section 1602, Nonetheless, RAFSS habitat should be avoided to the greatest extent feasible in consultation with CDFW's Streambed Alteration Agreement program. through implementation of Mitigation Measure BIO-1 will reduce potential impacts on special status habitat and species to less than significant.

*(Note that Impact 3.4a continues on pages 3-22 through 3-24 of the MND, but only select excerpts have been included here.)*



STATE OF CALIFORNIA  
 NATIVE AMERICAN HERITAGE COMMISSION  
 Environmental and Cultural Department  
 1550 Harbor Blvd., Suite 100  
 West Sacramento, CA 95691  
 Phone (916) 373-3710  
 Fax (916) 373-5471

Edmund G. Brown Jr., Governor



January 8, 2018

Jennifer Ares  
 Yucaipa Valley Water District  
 P. O. Box 730  
 Yucaipa, CA 92399

Sent via e-mail: jares@yvw.dst.ca.us

Re: SCH# 2017121028, Wilson Creek Basins Water Recharge Project, City of Yucaipa; San Bernardino County, California

Dear Ms. Ares:

The Native American Heritage Commission (NAHC) has reviewed the Mitigated Negative Declaration prepared for the project referenced above. The review included the Introduction and Project Description, the Environmental Checklist, section 3.5 Cultural Resources, and Appendix D prepared by Rincon and BCR Consulting for the Yucaipa Valley Water District. We have the following concerns:

1. There is no Tribal Cultural Resources section or subsection in the Executive Summary or Environmental Checklist as per California Natural Resources Agency (2016) "Final Text for tribal cultural resources update to Appendix G: Environmental Checklist Form," <http://resources.ca.gov/ceqa/docs/ab52/Clean-final-AB-52-App-G-text-Submitted.pdf>
2. Documentation is unclear on **government-to-government consultation by the lead agency** under AB-52 with Native American tribes traditionally and culturally affiliated to the project area as required by statute, or that mitigation measures were developed in consultation with the tribes. Discussions under AB-52 may include the type of document prepared; avoidance, minimization of damage to resources; and proposed mitigation. **Contact by consultants during the Cultural Resources Assessment is not formal consultation.**
3. There are no mitigation measures specifically addressing Tribal Cultural Resources separately and distinctly from Archaeological Resources. Mitigation measures must take Tribal Cultural Resources into consideration as required under AB-52, **with or without consultation** occurring. Mitigation language for archaeological resources is not always appropriate for or similar to measures specifically for handling Tribal Cultural Resources.
4. Mitigation for inadvertent finds of human remains is inaccurate. There is no time limit on when the inspection by the MLD can take place. The MLD has 48 hours from the time they are given access to the site to make recommendations. This is also misstated in the Appendix. Please refer to California Public Resources Code § 5097.98 for the process of designating a MLD for human remains determined to be Native American.

**ADDITIONAL INFORMATION:**

The California Environmental Quality Act (CEQA)<sup>1</sup>, specifically Public Resources Code section 21084.1, states that a project that may cause a substantial adverse change in the significance of a historical resource is a project that may have a significant effect on the environment.<sup>2</sup> If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an environmental impact report (EIR) shall be prepared.<sup>3</sup> In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources with the area of project effect (APE).

CEQA was amended in 2014 by Assembly Bill 52. (AB 52).<sup>4</sup> **AB 52 applies to any project for which a notice of preparation or a notice of negative declaration or mitigated negative declaration is filed on or after July 1, 2015.** AB 52 created a separate category for "tribal cultural resources"<sup>5</sup>, that now includes "a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment."<sup>6</sup> Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource.<sup>7</sup> Your project may also be subject to **Senate Bill 18 (SB 18)** (Burton, Chapter 905, Statutes of 2004), Government Code 65352.3, if it also involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space. **Both SB 18 and AB 52 have tribal consultation requirements.** Additionally, if your project is also subject to the federal National Environmental

<sup>1</sup> Pub. Resources Code § 21000 et seq.

<sup>2</sup> Pub. Resources Code § 21084.1; Cal. Code Regs., tit. 14, § 15064.5 (b); CEQA Guidelines Section 15064.5 (b)

<sup>3</sup> Pub. Resources Code § 21080 (d); Cal. Code Regs., tit. 14, § 15064 subd.(a)(1); CEQA Guidelines § 15064 (a)(1)

<sup>4</sup> Government Code 65352.3

<sup>5</sup> Pub. Resources Code § 21074

<sup>6</sup> Pub. Resources Code § 21084.2

<sup>7</sup> Pub. Resources Code § 21084.3 (a)

Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966<sup>8</sup> may also apply.

**Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.**

Agencies should be aware that AB 52 does not preclude agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52. For that reason, we urge you to continue to request Native American Tribal Consultation Lists and Sacred Lands File searches from the NAHC. The request forms can be found online at: <http://nahc.ca.gov/resources/forms/>. Additional information regarding AB 52 can be found online at [http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation\\_CalEPAPDF.pdf](http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation_CalEPAPDF.pdf), entitled "Tribal Consultation Under AB 52: Requirements and Best Practices".

The NAHC recommends lead agencies consult with all California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources.

A brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments is also attached.

Please contact me at [gayle.totton@nahc.ca.gov](mailto:gayle.totton@nahc.ca.gov) or call (916) 373-3714 if you have any questions.

Sincerely,



Gayle Totton, B.S., M.A., Ph.D  
Associate Governmental Project Analyst

Attachment

cc: State Clearinghouse

<sup>8</sup> 154 U.S.C. 300101, 36 C.F.R. § 800 et seq.

**Pertinent Statutory Information:****Under AB 52:**

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice.

A lead agency shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project.<sup>9</sup> and prior to the release of a negative declaration, mitigated negative declaration or environmental impact report. For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code § 65352.4 (SB 18).<sup>10</sup>

The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:

- a. Alternatives to the project.
  - b. Recommended mitigation measures.
  - c. Significant effects.<sup>11</sup>
1. The following topics are discretionary topics of consultation:
- a. Type of environmental review necessary.
  - b. Significance of the tribal cultural resources.
  - c. Significance of the project's impacts on tribal cultural resources.

If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency.<sup>12</sup>

With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code sections 6254 (r) and 6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public.<sup>13</sup>

If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:

- a. Whether the proposed project has a significant impact on an identified tribal cultural resource.
- b. Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code section 21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource.<sup>14</sup>

Consultation with a tribe shall be considered concluded when either of the following occurs:

- a. The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or
- b. A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached.<sup>15</sup>

Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code section 21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code section 21082.3, subdivision (b), paragraph 2, and shall be fully enforceable.<sup>16</sup>

If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code section 21084.3 (b).<sup>17</sup>

An environmental impact report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:

- a. The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code sections 21080.3.1 and 21080.3.2 and concluded pursuant to Public Resources Code section 21080.3.2.
- b. The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.
- c. The lead agency provided notice of the project to the tribe in compliance with Public Resources Code section 21080.3.1 (d) and the tribe failed to request consultation within 30 days.<sup>18</sup>

<sup>9</sup> Pub. Resources Code § 21080.3.1, subs. (d) and (e)

<sup>10</sup> Pub. Resources Code § 21080.3.1 (b)

<sup>11</sup> Pub. Resources Code § 21080.3.2 (a)

<sup>12</sup> Pub. Resources Code § 21080.3.2 (a)

<sup>13</sup> Pub. Resources Code § 21082.3 (c)(1)

<sup>14</sup> Pub. Resources Code § 21082.3 (b)

<sup>15</sup> Pub. Resources Code § 21080.3.2 (b)

<sup>16</sup> Pub. Resources Code § 21082.3 (a)

<sup>17</sup> Pub. Resources Code § 21082.3 (e)

<sup>18</sup> Pub. Resources Code § 21082.3 (d)



*This process should be documented in the Tribal Cultural Resources section of your environmental document.*

**Under SB 18:**

Government Code § 65352.3 (a) (1) requires consultation with Native Americans on general plan proposals for the purposes of "preserving or mitigating impacts to places, features, and objects described § 5097.9 and § 5091.993 of the Public Resources Code that are located within the city or county's jurisdiction. Government Code § 65560 (a), (b), and (c) provides for consultation with Native American tribes on the open-space element of a county or city general plan for the purposes of protecting places, features, and objects described in Sections 5097.9 and 5097.993 of the Public Resources Code.

- SB 18 applies to **local governments** and requires them to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: [https://www.opr.ca.gov/docs/09\\_14\\_05\\_Updated\\_Guidelines\\_922.pdf](https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf)
- **Tribal Consultation:** If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. **A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe.**<sup>19</sup>
- **There is no Statutory Time Limit on Tribal Consultation under the law.**
- **Confidentiality:** Consistent with the guidelines developed and adopted by the Office of Planning and Research,<sup>20</sup> the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code sections 5097.9 and 5097.993 that are within the city's or county's jurisdiction.<sup>21</sup>
- **Conclusion Tribal Consultation:** Consultation should be concluded at the point in which:
  - The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
  - Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation.<sup>22</sup>

**NAHC Recommendations for Cultural Resources Assessments:**

- Contact the NAHC for:
  - A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.
  - A Native American Tribal Contact List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.
    - The request form can be found at <http://nahc.ca.gov/resources/forms/>.
- Contact the appropriate regional California Historical Research Information System (CHRIS) Center ([http://ohp.parks.ca.gov/?page\\_id=1068](http://ohp.parks.ca.gov/?page_id=1068)) for an archaeological records search. The records search will determine:
  - If part or the entire APE has been previously surveyed for cultural resources.
  - If any known cultural resources have been already been recorded on or adjacent to the APE.
  - If the probability is low, moderate, or high that cultural resources are located in the APE.
  - If a survey is required to determine whether previously unrecorded cultural resources are present.
- If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
  - The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.
  - The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

**Examples of Mitigation Measures That May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:**

- Avoidance and preservation of the resources in place, including, but not limited to:
  - Planning and construction to avoid the resources and protect the cultural and natural context.
  - Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.

<sup>19</sup> (Gov. Code § 65352.3 (a)(2)).

<sup>20</sup> pursuant to Gov. Code section 65040.2,

<sup>21</sup> (Gov. Code § 65352.3 (b)).

<sup>22</sup> (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).



- Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:
  - Protecting the cultural character and integrity of the resource.
  - Protecting the traditional use of the resource.
  - Protecting the confidentiality of the resource.
- Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.
- Please note that a federally recognized California Native American tribe or a non-federally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed.<sup>23</sup>
- Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated.<sup>24</sup>

The lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.

- Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources.<sup>25</sup> In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.
- Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.
- Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code section 7050.5, Public Resources Code section 5097.98, and Cal. Code Regs., tit. 14, section 15064.5, subdivisions (d) and (e) (CEQA Guidelines section 15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

<sup>23</sup> (Civ. Code § 815.3 (c)).

<sup>24</sup> (Pub. Resources Code § 5097.991).

<sup>25</sup> per Cal. Code Regs., tit. 14, section 15064.5(f) (CEQA Guidelines section 15064.5(f)).



## Yucaipa Valley Water District

12770 Second Street • P. O. Box 730 • Yucaipa, California 92399-0730  
(909) 797-5117 • Fax: (909) 797-6381 • [www.yvwd.dst.ca.us](http://www.yvwd.dst.ca.us)

March 2, 2018

Ms. Leslie Mouriquand  
San Manuel Band of Mission Indians  
26569 Community Center Drive  
Highland, CA 92346

Dear Ms. Mouriquand,

In September 2016, Yucaipa Valley Water District (District) via BCR Consulting contacted by letter the 18 potentially interested tribal groups that were identified by NAHC (including your tribe), soliciting comments on the proposed Wilson Creek Basins Water Recharge Project (Project) relative to protection of tribal cultural resources. Your email response was received, on September 23, 2016, requesting that a Phase I survey and records search be conducted and the results forwarded to the tribe. The Cultural Resources Assessment is enclosed to this letter.

In December 2017, the District circulated a Draft Mitigated Negative Declaration (MND) for the proposed Project pursuant to the California Environmental Quality Act (CEQA). The Draft MND included this Cultural Resources Assessment as Appendix D. The Draft MND is available on the District's website at:

<http://documents.yvwd.dst.ca.us/news/171212ISMNDWilsonCreekBasins.pdf>

Please contact me at [jares@yvwd.us](mailto:jares@yvwd.us) or PHONE if you have any further questions.

Sincerely,

Jennifer Ares  
Yucaipa Valley Water District  
Water Resources Manager

Enclosure: Cultural Resources Assessment – Wilson Creek Basins State Water Recharge Project

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Directors and Officers

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## Department of Public Works

- Flood Control
- Operations
- Solid Waste Management
- Surveyor
- Transportation

Kevin Blakeslee, P.E.  
Director

### Transmitted Via Email

January 10, 2018

Yucaipa Valley Water District  
Jennifer Ares, Water Resource Manager  
12770 Second Street  
Yucaipa, CA. 92399

File: 10(ENV)-4.01

**RE: CEQA – NOTICE OF AVAILABILITY OF A MITIGATED NEGATIVE DECLARATION FOR THE WILSON CREEK BASINS RECYCLED WATER RECHARGE PROJECT FOR THE YUCAIPA VALLEY WATER DISTRICT**

Dear Ms. Ares:

Thank you for allowing the San Bernardino County Department of Public Works the opportunity to comment on the above-referenced project. **We received this request on December 8, 2017** and pursuant to our review, the following comments are provided:

#### General Comments

The project activities for this project will require easements for utilities and pipelines and a water spreading agreement between the San Bernardino County Flood Control District (District) and the Yucaipa Valley Water District prior to issuance of construction permits. For more information, please contact David Lovell, PWE III, in the Flood Control Planning Division at 909-387-8120.

#### Environmental Management Division (Patrick Egle, Planner III, 909-387-1865):

The first complete paragraph on Page 3-18 of the Initial Study/Mitigated Negative Declaration (IS/MND) discusses the jurisdictional status of Wilson Creek. The page continues on to discuss the Wilson Creek Basins and the determination that the basins area outside of jurisdiction for the United States Army Corps of Engineers (USACE), California Regional Water Quality Control Board (CRWQCB) and the California Department of Fish and Wildlife (CDFW).

Wilson Creek Basins are a series of basins which convey flows downstream from one another and eventually flow through a corrugated metal pipe into Wilson Creek, just north of Bryant. This connection into Wilson Creek appears to make it jurisdictional for the regulatory agencies noted above. We recommend the project proponent reconsider this determination and seek approval from the USACE, CRWQCB, and CDFW for the proposed project. As such, the analysis

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J. Ares, Yucaipa Valley Water District  
CEQA – NOA MND Wilson Creek Basins Recycled Water Recharge Project  
January 10, 2018  
Page 2 of 2

completed for Scenario RW1, on Page 3-22, would need to be revised before adoption of the Initial Study/Mitigated Negative Declaration.

We respectfully request to be included on the circulation list for all project notices, public reviews, or public hearings. In closing, I would like to thank you again for allowing the San Bernardino County Department of Public Works the opportunity to comment on the above-referenced project. Should you have any questions or need additional clarification, please contact the individuals who provided the specific comment, as listed above.

Sincerely,



**Michael R. Perry**  
Supervising Planner  
Environmental Management

MRP:PE:sr  
Email: [jares@yvwd.us](mailto:jares@yvwd.us)





## Yucaipa Valley Water District

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March 2, 2018

Michael R. Perry  
 Department of Public Works, San Bernardino County  
 825 East Third Street,  
 San Bernardino, CA 92415-0835

**Subject: Response to Comments Received from San Bernardino County Flood Control District Regarding the Wilson Creek Basins Recycled Water Recharge Project Initial Study / Mitigated Negative Declaration**

Dear Mr. Perry:

Thank you for submitting comments on the Yucaipa Valley Water District's (District) Wilson Creek Basins Water Recharge Project Initial Study/Mitigated Negative Declaration (MND). We appreciate San Bernardino County Public Works support for development of recycled water and we fully considered the comments included in your January 10, 2018 letter. Following are responses to your submitted comments.

**Attachment 1** identifies the comment numbering we have used in organizing our responses.

### **Comment 1: Easements and Permits**

Table 1.1-1 on page 1-2 of the MND, specifies the public agencies whose approval is required prior to Project implementation. Table 1.1-1 acknowledges that an easement/encroachment permit would be required by the San Bernardino County Flood Control District (SBCFCD). Prior to project implementation, the District will comply with this and all other relevant requirements set forth by the SBCFCD and other permitting agencies.

### **Comment 2: Jurisdiction of Spreading Basins**

The MND's Biological Resources section (page 3-19), as well as Sections 4.4 and 5.4 of the Biological Resources Assessment included as Appendix B of the MND, states that the Wilson Basins were determined to be outside of United States Army Corps of Engineers (USACE) jurisdiction because they do not release water except by percolation, evaporation, or emergency overflow during flood conditions. The Basins are not connected to Wilson Creek under normal conditions. An overflow channel exists between the Basins and the creek, but it isn't used, given that 100% of water is recharged in the Basins. As such, the human-made basins are not tributaries of navigable waters and are thus not subject to review by USACE under Clean Water Act Section 404. Following that conclusion, the Basins are also not subject to Regional Water Quality Control Board (RWQCB) jurisdiction under Clean Water Act Section 401. In addition, neither agency

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Division 5

JOSEPH B. ZOBA  
General Manager  
and Secretary

provided comments on the MND that would have indicated they disagreed with the conclusion regarding their jurisdiction.

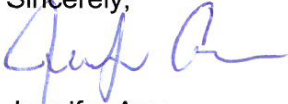
The Biological Resources Assessment (Appendix B of the MND) concluded that the Wilson Basins are not subject to California Department of Fish and Wildlife (CDFW) jurisdiction under California Fish and Game Code Section 1602 due to the lack of evidence of streambed and bank features and riparian habitat. The Basins are designed solely for artificial groundwater recharge and do not detain or retain water, and thus do not meet CDFW's definition of a "lake" as a "natural or man-made reservoir." However, given comments by CDFW regarding that agency's jurisdiction, the District will commit to consult formally with CDFW under California Fish and Game Code Section 1602 in order to come to a common understanding regarding a CDFW jurisdictional determination. Mitigation Measure BIO-1 of the MND has been revised to reflect this commitment, which will contribute to mitigation of the Project's impacts on RAFSS habitat. Attachment 1 contains the revisions to several paragraphs of the Biological Resources section (pages 3-15 through 3-27 of the MND) (new text is underlined, deleted text is shown in ~~strikeout~~) to clarify this commitment.

### **Comment 3: Project Notices**

The District appreciates the comments provided by the San Bernardino County Department of Public Works, and will ensure that all future project notices, public reviews, and public hearing notices are sent to the Department.

Again, thank you for your comments on the MND. We look forward to working with the County, moving forward to expand water recycling and groundwater recharge within our community.

Sincerely,



Jennifer Ares  
Yucaipa Valley Water District  
Water Resources Manager



## Attachment 1 Additions to Final MND

### 3.1 BIOLOGICAL RESOURCES

#### *Excerpt from pages 3-18 through 3019 of the MND*

**Jurisdictional Aquatic Resources.** The Project site is immediately adjacent to Wilson Creek, which is mapped by the National Wetlands Inventory (NWI) as a seasonally flooded, intermittent riverine streambed. The creek is vegetated predominately by upland species (scalebroom). No water was present within Wilson Creek during the time of the 2017 BRA survey. The creek is contained by concrete and earthen berms to the north and south, and under typical conditions (non-flood), remains divided from the Project site.

As previously discussed, the Project site is home to five constructed recharge/infiltration basins. Basin 1 is a debris basin and the Basin 5 is a serpentine basin. At the time of the survey, neither of these two basins held water. Captured runoff and overflow does not appear to currently discharge from Basin 1 once collected. However, this could change after Project implementation. The three center basins (Basins 2, 3 and 4) were in active use for SWP water replenishment during the site visit. Standing water was present in these basins, along with submerged RAFSS vegetation.

Wilson Creek meets the definition of a U.S. Army Corps of Engineers (USACE) and Regional Water Quality Control Board (RWQCB) jurisdictional aquatic resource under Clean Water Act (CWA) Sections 404 and 401 because it is a tributary to a known water of U.S. (San Timoteo Creek). In addition, the creek is subject to CDFW jurisdiction under California Fish and Game Code (CFG) Section 1602. As Wilson Creek was determined to be beyond the limits of proposed construction for the Project, no further analysis was conducted.

The Basins were previously constructed, are currently used for groundwater replenishment, and do not have a direct hydrologic connection (i.e., flow discharge) with Wilson Creek. They are dominated by upland RAFSS and ruderal plant species, and do not contain a preponderance of hydrophytic (i.e., wetland) vegetation. The Basins do not contain evidence of hydrologic flow, including an Ordinary High-Water Mark (OHWM) or defined streambed, bank, or channel features.

The Basins were determined to be outside of federal (USACE) jurisdiction. By design, the infiltration basins do not release water except by percolation, evaporation, or emergency overflow during flood conditions. As such, at the federal level, the manmade features are not tributaries of navigable waters and are, thus, not subject to review by the USACE. In the absence of USACE jurisdiction, the Basins are not subject to the jurisdiction of the RWQCB under CWA Section 401. However, the RWQCB may regulate the Basins for the purpose of groundwater recharge under the Porter Cologne Water Quality Control Act.

The Basins ~~are~~ may not be subject to CDFW jurisdiction under CFGC Section 1602. As noted ~~previously in the Biological Resources Assessment in Appendix B~~, the basins lack evidence of streambed and bank features and riparian habitat. While water and scattered vegetation was present within three of the five basins during the field survey, CDFW defines "lake" as a "natural or man-made reservoir." The onsite basins are designed solely for artificial groundwater recharge, and not to detain or retain water. Therefore, they Biological Resources Assessment concluded that they do not meet this definition as a reservoir. However, precedence established by San Bernardino County Flood Control and San Bernardino Valley Municipal Water District in notifying CDFW under CFGC Section 1602 of construction and maintenance activities within the Basins indicates that the Basins are subject to CDFW jurisdiction.

**Excerpt from page 3-22 of the MND****a) Less Than Significant with Mitigation Incorporated****Scenario RW1**

The site was assessed for sensitive species known to occur locally. None of the sensitive wildlife species identified in the literature review were observed within the Project area during the biological survey. No sensitive plant species were observed on site during the biological survey and none are expected to occur. Areas of the Project site where the monitoring wells and pump station would be located are areas that have been previously disturbed and which do not contain riparian habitat nor support any sensitive natural communities.

**RAFSS**

Under Scenario RW1, approximately 0.037 acre of RAFSS would be permanently impacted, and 0.489 acre would be temporarily impacted. ~~However, r~~Removal of this vegetation ~~is~~ may be considered a less than significant impact, given that the vegetation is isolated and has been previously degraded as part of the initial basin site development and ongoing basin management. ~~Nonetheless, However, given that the Basins may be subject to CDFW jurisdiction under CFGC Section 1602, RAFSS habitat should be avoided to the greatest extent feasible in consultation with CDFW's Streambed Alteration Agreement program. through i~~Implementation of Mitigation Measure BIO-1 will reduce potential impacts on special status habitat and species to less than significant.

**Mitigation Measure BIO-1: Avoidance and Mitigation of RAFSS Habitat**

Prior to commencement of Project activities, the District shall obtain either written correspondence from CDFW stating that notification under CFGC Section 1602 is not required for the project; or a copy of a CDFW-authorized Streambed Alteration Agreement authorizing impacts to streambed resources associated with the Project.

In accordance with this CDFW consultation, tThe Project's construction contractor shall implement the following avoidance measures for construction near RAFSS habitat:

- The Project's work limits shall be staked, fenced, and/or marked, with materials clearly visible to construction personnel to prevent encroachment upon sensitive vegetation communities, particularly within Wilson Creek corridor;
- No construction access, parking, or storage of equipment or materials shall be permitted outside of these marked areas;
- Access roads and work areas shall be periodically sprayed with water to reduce the potential for dust accumulation on the leaves of adjacent sensitive vegetation communities not proposed for impacts;
- Erosion and sediment control Best Management Practices (BMPs) (i.e., silt fences, straw wattles, sand bags, etc.) shall be implemented and installed during the proposed project; and
- Temporarily impacted areas of RAFSS shall be re-seeded with a mix of in-kind species.



***Excerpt from page 3-24 of the MND*****Scenario RW2**

Except for RAFSS, the impact for Scenario RW1 pursuant to this criterion would be the same for Scenario RW2.

**RAFSS**

Under Scenario RW2, approximately 0.045 acre of RAFSS would be permanently impacted, and 0.188 acre would be temporarily impacted. However, removal of this vegetation ~~is~~ may be considered a less than significant impact, given that the vegetation is isolated and has been previously degraded as part of the initial basin site development and ongoing basin management. However, given that the Basins may be subject to CDFW jurisdiction under CFGC Section 1602, Nonetheless, RAFSS habitat should be avoided to the greatest extent feasible in consultation with CDFW's Streambed Alteration Agreement program. through implementation of Mitigation Measure BIO-1 will reduce potential impacts on special status habitat and species to less than significant.

*(Note that Impact 3.4a continues on pages 3-22 through 3-24 of the MND, but only select excerpts have been included here.)*

## Revisions to the Cultural Portion of the Mitigated Negative Declaration – Addition of Tribal Cultural Resource Mitigation Measures

### **TCR-1**

Due to the heightened cultural sensitivity of the proposed project area, an archaeological monitor with at least 3 years of regional experience in archaeology shall be present for all ground-disturbing activities that occurs within the proposed project area associated with the Scenario RW1 pipeline (which includes, but is not limited to, tree/shrub removal and planting, clearing/grubbing, grading, excavation, trenching, compaction, fence/gate removal and installation, drainage and irrigation removal and installation, hardscape installation [benches, signage, boulders, walls, seat walls, fountains, etc.], and archaeological work). A sufficient number of archaeological monitors shall be present each work day to ensure that simultaneously occurring ground disturbing activities receive thorough levels of monitoring coverage.

### **TCR-2**

If an archaeological deposit or tribal cultural resource is discovered within the Project area, ground disturbing activities shall be suspended 100 feet around the resource(s) and an Environmentally Sensitive Area (ESA) physical demarcation/barrier constructed. Representatives from the San Manuel Band of Mission Indians (SMBMI), the Archaeological Monitor/applicant, and the Lead Agency shall confer regarding treatment of the discovered resource(s). A treatment plan shall be prepared, reviewed and adopted by all Parties, and then implemented to protect the identified resources from damage and destruction. The treatment plan shall contain a research design to evaluate the resource for significance under both NHPA and CEQA criteria. This research design shall (1) acknowledge the necessity for additional, internal Tribal deliberations and culturally-appropriate treatments for all tribal cultural resources and (2) for archaeological resources, include fieldwork and sampling procedures appropriate to ascertain the boundaries, nature, and content of the resource in accordance with current, professional archaeological best practices, as agreed upon by SMBMI.

Should the resource be determined to be significant under either federal- or state-level criteria, avoidance and preservation in place shall be the preferred treatment. Should the resource not be a candidate for avoidance or preservation in place, a resource-specific mitigation plan shall be developed, reviewed by all Parties, and implemented. Should the mitigation plan include archaeological data recovery, a research design shall be developed that exhausts the research potential of the resource in accordance with current professional archaeology standards. Any mitigation plan that results in the removal of cultural resources (artifacts, ecofacts, features, etc.) from their original provenience shall also include a comprehensive discussion of resource processing, analysis, curation, and reporting protocols and obligations.

- a. All mitigation, treatment, and data recovery plans shall be developed in consultation with SMBMI.
- b. All fieldwork related to treatment, mitigation, and data recovery plans shall require monitoring by an SMBMI Tribal Monitor, should the Tribe elect to have a monitor present.

- c. All draft reports containing the significance and treatment findings and data recovery results shall be prepared by the archaeologist hired by the applicant and submitted to the Lead Agency and SMBMI for their review and comment.
- d. All final reports are to be submitted to the local CHRIS Information Center, the Lead Agency, and SMBMI.

### TCR-3

The San Manuel Band of Mission Indians (SMBMI) requests that culturally-appropriate and professionally proper procedures shall be followed with respect to all artifacts and remains affiliated with Native peoples—whether prehistoric, protohistoric, or historic.

- a. Any sacred/ceremonial objects or objects of cultural patrimony discovered within the project area are to be offered to the MLD of record for appropriate treatment and all claims of ownership to such materials waived by the applicant/developer/landowner.
- b. SMBMI requests that all other artifacts be permitted to be either (1) left *in situ* should avoidance or protection in place be guaranteed or (2) reburied, on site, in a location that will be protected from future disturbance. A fully executed reburial agreement shall be developed with SMBMI. This agreement shall include measures and provisions to protect the future reburial area from any future impacts (vis a vis project plans, conservation/preservation easements, deed riders, etc.). Reburial shall not occur until all ground-disturbing activities associated with the Project have been completed, all monitoring has ceased, all cataloguing and basic recordation of cultural resources have been completed, and a final monitoring report has been issued to Lead Agency, CHRIS, and SMBMI.
- c. Should it occur that avoidance, preservation in place, or on-site reburial are not an option for some artifacts, SMBMI requests that the landowner relinquish all ownership and rights to this material and consult with the Tribes to identify an American Association of Museums (AAM)-accredited facility within San Bernardino County that can accession the materials into their permanent collections and provide for the proper care of these objects in accordance with the 1993 CA Curation Guidelines. A curation agreement with an appropriate qualified repository shall be developed between the landowner and museum that legally and physically transfers the collections and associated records to the facility. This agreement shall stipulate the payment of fees necessary for permanent curation of the collections and associated records and the obligation of the Project developer/applicant to pay for those fees.
- d. Where appropriate and agreed upon in advance by SMBMI, the archaeologist hired by the applicant may conduct analyses of certain artifact classes (including, but not limited to, shell, non-human bone, ceramic, stone) if required by CEQA, the Project's mitigation measures, and/or conditions of approval for the Project. Upon completion of authorized and mandatory analyses, the applicant/developer shall provide said artifacts to SMBMI for reburial on site or to the aforementioned, identified curation facility within sixty (60) days from the completion of



analyses and not to exceed one hundred and twenty (120) days after the initial recovery of the items from the field.

#### **TCR-4**

The Lead Agency and the applicant/developer shall immediately contact the County Coroner and the San Manuel Band of Mission Indians (SMBMI) in the event that any human remains are discovered during implementation of the Project. If the Coroner recognizes the human remains to be those of a Native American, or has reason to believe that they are those of a Native American, the Coroner shall ensure that notification is provided to the NAHC within twenty-four (24) hours of the determination, as required by California Health and Safety Code § 7050.5 (c).

The NAHC-identified Most Likely Descendant (MLD), shall be allowed, under California Public Resources Code § 5097.98 (a), to (1) inspect the site of the discovery and (2) make determinations as to how the human remains and funerary objects shall be treated and disposed of with appropriate dignity. The MLD, Lead Agency, and applicant/developer/landowner agree to discuss in good faith what constitutes "appropriate dignity" as that term is used in the applicable statutes.

The MLD shall complete its inspection and make recommendations within forty-eight (48) hours of receiving notification from either the Developer or the NAHC, as required by California Public Resources Code § 5097.98.

Reburial of human remains and/or funerary objects shall be accomplished in compliance with the California Public Resources Code § 5097.98 (a) and (b). The MLD in consultation with the applicant/developer/landowner, shall make the final discretionary determination regarding the appropriate disposition and treatment of human remains and funerary objects.

All parties are aware that the MLD may wish to rebury the human remains and associated funerary objects, as well as ceremonial and cultural items (artifacts) on or near, the site of their discovery, in an area that shall not be subject to future subsurface disturbances. The applicant/developer/landowner should accommodate on-site reburial in a location mutually agreed upon by the Parties.

The term "human remains" encompasses more than human bones because some local Tribes' traditions periodically necessitated the ceremonial burning of human remains and funerary objects. Funerary objects are those artifacts associated with any human remains or funerary rites. These items, and other funerary remnants and their ashes, are to be treated in the same manner as human bone fragments or bones that remain intact.

It is understood by all Parties that unless otherwise required by law, the site of any reburial of Native American human remains or cultural artifacts shall not be disclosed and shall not be governed by public disclosure requirements of the California Public Records Act. The Coroner, parties, and Lead Agencies,

will be asked to withhold public disclosure information related to such reburial, pursuant to the specific exemption set forth in California Government Code § 6254 (r).

**Jessica Mauck**

CULTURAL RESOURCES ANALYST

O: (909) 864-8933 x3249

M: (909) 725-9054

26569 Community Center Drive, Highland California 92346





**Date:** April 3, 2018

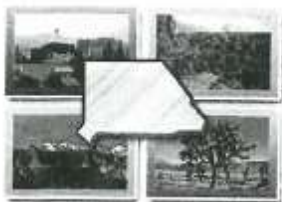
**Prepared By:** Joseph Zoba, General Manager

**Subject:** Nomination of a Regular Special District Member to the Local Agency Formation Commission for San Bernardino County

**Recommendation:** That the Board nominates an individual and directs the General Manager to submit a completed ballot to the Local Agency Formation Commission.

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The Yucaipa Valley Water District has received a ballot for the Regular Special District Member to the Local Agency Formation Commission. The Board of Directors should select one individual and direct the General Manager to submit a completed ballot to the Local Agency Formation Commission.



# LAFCO

## Local Agency Formation Commission for San Bernardino County

1170 West 3rd Street, Unit 100  
San Bernardino, CA 92415-0490  
909.388.0480 | Fax: 909.388.0481  
E-mail: lafco@lafco.sbccounty.gov  
www.sbc.lafco.org

Established by the State of California  
to serve the Cities, Cities, Special Districts  
and the County of San Bernardino

### COMMISSIONERS

JIM BAGLEY  
Public Member

KIMBERLY COX, Chair  
Special District

JAMES V. CURATALO  
Special District

ROBERT A. LOVINGOOD  
Board of Supervisors

LARRY McCALLON  
City Member

JAMES RAMOS, Vice Chair  
Board of Supervisors

DIANE WILLIAMS  
City Member

### ALTERNATES

STEVEN FARRELL  
Special District

JANICE RUTHERFORD  
Board of Supervisors

Vacant  
Public Member

ACQUANETTA WARREN  
City Member

### STAFF

KATHLEEN ROLLINGS-McDONALD  
Executive Officer

SAMUEL MARTINEZ  
Assistant Executive Officer

MICHAEL TUERPE  
Project Manager

LA TRICI JONES  
Clerk to the Commission

### LEGAL COUNSEL

CLARK H. ALSOP

March 22, 2018

**TO: Presidents of the Boards of Directors of the Independent Special Districts in San Bernardino County**

**SUBJECT: NOTIFICATION OF DESIGNATION OF ALTERNATE SPECIAL DISTRICT MEMBER AND SPECIAL DISTRICT ELECTION FOR REGULAR LAFCO SPECIAL DISTRICT MEMBER**

By distribution of this letter, the Independent Special Districts are notified that a single candidate nomination for the position of Alternate Special District Member was received. Pursuant to the provisions of Government Code Section 56332 (f)(2) since a single candidate, Steven Farrell, has been nominated, he is deemed appointed as the Alternate Special District member, with a term expiring the first Monday in May 2022.

During the nomination period, LAFCO has received nominations for two candidates for the position of Regular Special District member. Therefore, the official voting process as defined in Government Code Section 56332 for the Regular Special District Member of the Local Agency Formation Commission shall commence. Attached to this letter is the ballot for the selection of this position. Pursuant to the provisions of Government Code Section 56332, the voting period will commence as of **March 22, 2018** and end on **Monday, April 27, 2018 at the close of business**. The voting instructions for this selection are as follows:

1. Each District may vote for one candidate. The vote shall be cast as directed by the Board of Directors of the District through consideration at a Board Hearing and a roll call vote. The existing policy of the Selection Committee is that LAFCO commission members should represent districts located in the Valley, Mountain and Desert regions. Inasmuch as possible, they should represent different types of special districts.
2. The signed original ballot, with the name of each voting Board Member outlined, must be received in the LAFCO Office by 5:30 p.m. on **April 27, 2018**. If a faxed copy of the ballot is provided by the April 27 deadline, the original signed copy must be received by 5:30 p.m. on **May 3**, or the ballot will be declared invalid.
3. Twenty-six (26) ballots are required to be received to establish a quorum for selection of the Alternate Special District position.

**RECEIVED**  
MAR 23 2018  
YUCAIPA VALLEY  
WATER DISTRICT



SPECIAL DISTRICT ELECTION LETTER  
REGULAR MEMBER  
MARCH 22, 2018

The completed ballot is to be mailed to:

Kathleen Rollings-McDonald, Executive Officer  
Local Agency Formation Commission  
1170 West Third Street, Unit 150  
San Bernardino, CA 92415-0490

If you are faxing a copy of the ballot, the LAFCO fax number is (909) 388-0481. As outlined in Item #2 above, if the ballot is faxed to the LAFCO office, the original signed copy of the ballot will need to be mailed or delivered to the above address and received by 5:30 p.m. on **May 3, 2018** to be considered in the election process.

Please let me know if you have any questions concerning this selection process. You may contact me at the address listed above, by e-mail at [kmcdonald@lafco.sbcounty.gov](mailto:kmcdonald@lafco.sbcounty.gov), or by phone at (909) 388-0480.

Sincerely,



KATHLEEN ROLLINGS-McDONALD  
Executive Officer

KRM/ltj

Enclosures

# BALLOT

## REGULAR SPECIAL DISTRICT MEMBER OF THE LOCAL AGENCY FORMATION COMMISSION

The \_\_\_\_\_  
(Name of District)

hereby votes for the marked candidate as indicated below:

### REGULAR SPECIAL DISTRICT MEMBER OF LAFCO:

\_\_\_\_\_ **JAMES CURATALO (Incumbent -- Member of the Board of  
Directors of Cucamonga Valley Water District)**

\_\_\_\_\_ **STEVE BOYDSTON (Member of the Board of  
Directors of Lake Arrowhead Community Services District)**

I, \_\_\_\_\_, do hereby certify that at its regularly-scheduled meeting of \_\_\_\_\_, the Board of Directors voted to elect the above-marked candidate as the Alternate Special District Member of the Local Agency Formation Commission of San Bernardino County, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

\_\_\_\_\_  
District President/Authorized Board Member

Dated: \_\_\_\_\_

**JAMES V. CURATALO, JR.**

P.O. Box 638, Rancho Cucamonga, CA 91729  
| Cell: 909-261-7055 | jamesc@cvwdwater.com |

**EDUCATION**

- California Special District Association Special District Leadership & Management Program – September 2008
- University of La Verne, La Verne, California – Coursework in public administration
- Extensive coursework in fire science

**EXPERIENCE**

- **Cucamonga Valley Water District, President (CVWD) – 1999 to present**  
CVWD is a retail water agency providing water and wastewater services to a population of 200,000. Responsible for providing organizational direction and policy development for the agency. Serves in a leadership role as President working closely with the General Manager/CEO. Currently appointed to the Human Resources/Risk Management and Water Resources Committees.
- **CALAFCO – Commissioner/Chair – 2013 to 2017**  
The California Association of LAFCO's serves as an organization dedicated to assisting member LAFCO's with educational and technical resources that otherwise would not be available. The Association provides statewide coordination of LAFCO activities, serves as a resource to the Legislature and other bodies, and offers a structure for sharing information among the various LAFCO's and other governmental agencies.
- **Coalition of California LAFCO's – Commissioner/Vice-Chair – 2010 to 2016**  
The Coalition of California LAFCOs was formed to foster collaboration among commissioners and staff and to provide an educational, legislative, technical and training resource to further the goals of the Cortese-Knox-Hertzberg Act and other priorities of interest to its members.
- **San Bernardino LAFCO – Commissioner/Chair – 2009 to present**  
The Local Agency Formation Commission is to ensure the establishment of an appropriate, sustainable, and logical municipal level government structure for the distribution of efficient and effective public services. The Local Agency Formation Commission for San Bernardino County encourages and promotes communication among agencies (public and private), property owners and residents of the County to achieve these goals.
- **Fontana Union Water Company – Director/Chair – 2003 to present**  
Serves on the board of directors of a mutual water company that has surface and groundwater rights in San Bernardino County. Ensures the company fulfills its corporate and fiduciary responsibilities to its shareholders.

JAMES V. CURATALO, JR.

PAGE 2

- **Chino Basin Watermaster – Vice-Chair– 2012-2013, 2016-2017**  
The Watermaster consists of various entities pumping water from the Chino Groundwater Basin including cities, water districts, water companies, agricultural, commercial and other private concerns. Chino Basin Watermaster's mission is to manage the Chino Groundwater Basin in the most beneficial manner and to equitably administer and enforce the provisions of the Chino Basin Watermaster Judgment.
- **Rancho Cucamonga Chamber of Commerce – Board Member – 2015 to 2017**  
The Rancho Cucamonga Chamber of Commerce is a voluntary organization of business professionals and firms whose purpose is to promote economic growth in the region and meet the needs of the business community, industry and tourism.

**WORK EXPERIENCE**

- City of Rancho Cucamonga Fire Protection District – Battalion Chief
- Small Business Owner



**Date:** April 3, 2018

**Prepared By:** Joseph Zoba, General Manager

**Subject:** Nomination of a Regular and Alternate Member to the San Bernardino Countywide Oversight Board

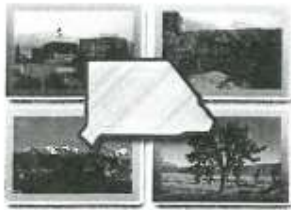
**Recommendation:** That the Board nominates a regular and alternate member and directs the General Manager to submit a completed ballot to the Local Agency Formation Commission.

---

The Yucaipa Valley Water District has received a ballot for the Regular Member and the Alternate Member to the Countywide Oversight Board.

The Board of Directors should select one individual as the Regular Member and one individual as the Alternate members and direct the General Manager to submit a completed ballot to the Local Agency Formation Commission.





**LAFCO**

**Local Agency  
Formation Commission  
for San Bernardino County**

1170 West 5th Street, Unit 156  
San Bernardino, CA 92415-0490  
909 388 0480 | Fax 909 388 0481  
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Established by the State of California  
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and the County of San Bernardino

**COMMISSIONERS**

**JIM BAGLEY**  
Public Member

**KIMBERLY COX, Chair**  
Special District

**JAMES V. CURTALDO**  
Special District

**ROBERT A. LOVINGOOD**  
Board of Supervisors

**LARRY McCALLON**  
City Member

**JAMES RAMOS, Vice Chair**  
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**DIANE WILLIAMS**  
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**ALTERNATES**

**STEVEN FARRELL**  
Special District

**JANICE RUTHERFORD**  
Board of Supervisors

**Vacant**  
Public Member

**ACQUANETTA WARREN**  
City Member

**STAFF**

**KATHLEEN ROLLINGS-MCDONALD**  
Executive Officer

**SAMUEL MARTINEZ**  
Assistant Executive Officer

**MICHAEL TUERPE**  
Project Manager

**LA TRICI JONES**  
Clerk to the Commission

**LEGAL COUNSEL**

**CLARK H. ALSOP**

March 22, 2018

RECEIVED

MAR 23 2018

YUCAIPA VALLEY  
WATER DISTRICT

**TO: Presidents of the Boards of Directors of the Independent Special Districts Within Redevelopment agencies in San Bernardino County (See Distribution List)**

**SUBJECT: NOTIFICATION OF ELECTION OF REGULAR AND ALTERNATE MEMBERS TO THE COUNTYWIDE OVERSIGHT BOARD**

By distribution of this letter, the Independent Special Districts which overlay a former redevelopment agency are notified that during the nomination period, LAFCO has received nominations for two candidates for the position of Regular Special District Member and two candidates for the position of Alternate Special District Member. Therefore, the official voting process pursuant to the adopted policies and procedures related to the Special District Selection Committee will commence.

Attached to this letter are the ballots for the selection of these positions. Pursuant to the provisions of Government Code Section 56332, the voting period will commence as of **March 22, 2018** and end on **Friday, April 27, 2018 at the close of business**. The voting instructions for this selection are as follows:

1. Each District may vote for one candidate in each category (Regular and Alternate). The vote shall be cast as directed by the Board of Directors of the District through consideration at a Board Hearing and a roll call vote. The existing policy of the Selection Committee is that members should represent districts located in the Valley, Mountain and Desert regions. Inasmuch as possible, they should represent different types of special districts. A copy of the information provided by each of the candidates is included for your information.
2. The signed original ballot, with the name of each voting Board Member outlined, must be received in the LAFCO Office by 5:30 p.m. on **April 27, 2018**. If a faxed copy of the ballot is provided by the April 27 deadline, the original signed copy must be received by 5:30 p.m. on May 3, or the ballot will be declared invalid.

The completed ballot is to be mailed to:

**Kathleen Rollings-McDonald, Executive Officer  
Local Agency Formation Commission  
1170 West Third Street, Unit 150  
San Bernardino, CA 92415-0490**

If you are faxing a copy of the ballot, the LAFCO fax number is (909) 388-0481. As outlined in Item #2 above, if the ballot is faxed to the LAFCO office, the original signed copy of the ballot will need to be mailed or delivered to the above address and received by 5:30 p.m. on May 3, 2018 to be considered in the election process.

Please let me know if you have any questions concerning this selection process. You may contact me at the address listed above, by e-mail at [kmcdonald@lafco.sbcounty.gov](mailto:kmcdonald@lafco.sbcounty.gov), or by phone at (909) 388-0480.

Sincerely,



KATHLEEN ROLLINGS-McDONALD  
Executive Officer

KRM/ltj

Enclosures

DISTRIBUTION LIST:

Apple Valley Fire Protection District  
Barstow Cemetery District  
Bear Valley Community Healthcare District  
Big Bear Airport District  
Big Bear Municipal Water District  
Chino Basin Water Conservation District  
Chino Valley Independent Fire Protection District  
Crestline-Lake Arrowhead Water Agency  
Hesperia Park and Recreation District  
Hi-Desert Water District  
Inland Empire Resource Conservation District  
Inland Empire Utilities Agency  
Lake Arrowhead Community Services District  
Mojave Desert Resource Conservation District  
Mojave Water Agency  
Monte Vista County Water District  
Morongo Basin Healthcare District (formerly known as the Hi-Desert Memorial Hospital District)  
San Bernardino Mountains Community Healthcare District  
San Bernardino Valley Municipal Water District  
San Bernardino Valley Water Conservation District  
Twentynine Palms Public Cemetery District  
West Valley Water District  
Yucaipa Valley Water District

**BALLOT FOR  
SPECIAL DISTRICT MEMBER OF THE  
COUNTYWIDE OVERSIGHT BOARD  
(REDEVELOPMENT)**

The \_\_\_\_\_  
(Name of District)

hereby votes for the marked candidate as indicated below:

**SPECIAL DISTRICT MEMBER OF COUNTYWIDE OVERSIGHT BOARD:**

\_\_\_\_\_ **CINDY SAKS**  
(Deputy General Manager of the San Bernardino  
Valley Municipal Water District – Valley Region)

\_\_\_\_\_ **CHRIS MANN**  
(Member of the Board of Directors of Yucaipa Valley Water  
District – Valley Region)

I, \_\_\_\_\_, do hereby certify that at its regularly-scheduled  
meeting of \_\_\_\_\_, the Board of Directors voted to elect the above-  
marked candidate as the Special District Member of the Countywide Oversight Board  
(Redevelopment) for San Bernardino County, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

\_\_\_\_\_  
District President/Authorized Board Member

Dated: \_\_\_\_\_



**Cindy Saks, C.P.A.**  
**Deputy General Manager - Administration**  
**San Bernardino Valley Municipal Water District**

Ms. Saks has been employed by the San Bernardino Valley Municipal Water District (Valley District) since February 2007. Based upon the policy decisions set by Valley District's Board of Directors, she is responsible for managing all aspects of the District's financial activities.

Within San Bernardino County, Valley District is the largest Special District receiving funds through the Redevelopment Property Tax Trust Fund (RPTTF). Since Redevelopment Agency Dissolution in 2012, Ms. Saks has been appointed and faithfully served as the Special District representative on the Successor Agency Oversight Boards for the cities of Colton, Grand Terrace, Highland and Redlands. During the past six years as an Oversight Board member, Ms. Saks has gained extensive knowledge of the successor agency financial reporting process including annual Recognized Obligation Payment Schedules (ROPS), Long Range Property Management Plans (LRPMP) and required Taxing Entities Compensation Agreements for RDA asset liquidations. Ms. Saks was instrumental in providing documentation that empowered the Legislature to include language in Senate Bill 107 where revenues attributable to a property tax rate approved by voters to make payments in support of pension programs, capital projects and the State Water Project and levied in addition to the general property tax rate be allocated and paid to the fund of that taxing entity. Thus returning the proper proportionate share of any residual balance of the successor agency RPTTF to the appropriate taxing entity that levied the tax.

Ms. Saks graduated from California State University, San Bernardino with a Bachelors of Science in Business Administration with an emphasis in Accounting. She is a Certified Public Accountant and maintains an active license through the completion of annual continued education requirements. In her previous employment, Ms. Saks worked for over twenty years in public accounting as an Audit Manager conducting independent financial audits of various water districts and special districts.

Throughout her accounting career Ms. Saks has acquired broad experience in evaluating business policies and procedures, reviewing internal controls and performing analytical financial reviews. She is a member of the California Society of Certified Public Accountants, California Society of Municipal Finance Officers and the Government Finance Officers Association.



# CHRIS MANN

PUBLIC AFFAIRS  
PUBLIC POLICY  
LOCAL GOV'T PRACTITIONER

(805) 907-6386 cell  
chrismann76@gmail.com  
33773 Cansler Way,  
Yucaipa, CA 92399

## STATEMENT

Working in and with local government my entire career, I have developed a passion for the tangible positive impacts that can be realized in people's daily lives through the development and effective implementation of sound public policy.

Dedicated to the cause of improving quality of life through the practice of good government, I am looking to take my career in the direction of city, county or special district management.

## HOBBIES



## WORK

**DEPUTY CHIEF OF STAFF/ ADMIN ANALYST**  
May 2014 – March 2017

**County of San Bernardino, Board of Supervisors, 5<sup>th</sup> District**  
Directly managed a staff of 10, and a yearly budget of \$1.4 million. Came in under budget each year. Analyzed and recommended policy pertaining to the County's 22,000 employees and a budget of \$5.4 billion. Made human resources decisions resulting in a highly professional and cohesive team commonly accepted as the most effective Board of Supervisors office in the County. Developed positive union relationships and helped negotiate the end to a year-long impasse situation with our Sheriff's Deputies. Led an overhaul of the office's communications strategy and tactics, including website, social media, emails and media relations. Primary responsibility for the following areas: land use and planning, economic development, political and union related issues, transportation, public works, public safety, Inland Valley Development Agency, San Bernardino International Airport.

**PRESIDENT**  
May 2005 – Present

**Mann Communications**  
Public affairs consulting services focused on helping clients interface and do business with local government, and helping local government communicate effectively with the public. Specialization in land use entitlement, community outreach, media relations, crisis communications, and political strategy.

**PARTNER/ PRINCIPAL**  
Jan. 2007 – Dec. 2012

**Rotkin Real Estate Group/ADR Preferred Business Properties**  
Developed and managed commercial real estate in Southern CA, AZ & NV. Directed the entire development process, including land acquisition, entitlement, design, construction, leasing, management and sale of assets. Regularly worked with city and county planning and economic development staff, met often with elected officials, managed multimillion dollar project budgets and coordinated efforts of large project teams.

**SENIOR ACCOUNT EXECUTIVE**  
Sep. 2004 – May 2005

**O'Reilly Public Relations**  
Provided the following services while working for the largest and best known public relations firm in the Inland Empire: government relations, legislative advocacy, policy development, media relations, community organizing and speechwriting. Specialization in land use entitlement, crisis communications, community outreach and political strategy.

## EDUCATION

**MASTERS IN PUBLIC POLICY & ADMIN.**  
June 1999 – Aug. 2000

**California Lutheran University**  
Coursework included: public budgeting & finance, law & public policy, labor arbitration, administrative analysis, intergovernmental relations, etc. All required coursework (36 semester credits) completed. Cumulative GPA 3.67. Degree will be awarded upon completion of thesis.

**BS PSYCHOLOGY/ BA POLI-SCI**  
Aug. 1995 – May 1999

**California Lutheran University**  
Double-majored in Psychology and Political Science. Worked as a Department Assistant in the Psychology Department, and volunteered on city council and State Assembly campaigns. Completed 134 semester credits and graduated cum laude.

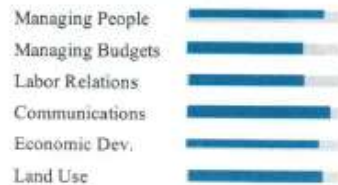
## ELECTED EXPERIENCE

**DIRECTOR** Yucaipa Valley Water District  
Dec. 2016 – Present  
Elected in November 2016.

**DIRECTOR** San Geronio Pass Water Agency  
Dec. 2004 – Dec. 2008  
Chaired the Finance & Budget Committee.

**MAYOR/ COUNCIL MEMBER** City of Westlake Village, CA  
Dec. 1999 – Dec. 2003  
At the age of 23, defeated an incumbent to become the youngest elected official in CA at the time.

## STRENGTHS



33773 Cansler Way, Yucaipa, CA 92399 (805) 907-6386 chrismann76@gmail.com



**BALLOT FOR  
ALTERNATE SPECIAL DISTRICT MEMBER  
OF THE COUNTYWIDE OVERSIGHT BOARD  
(REDEVELOPMENT)**

The \_\_\_\_\_  
(Name of District)

hereby votes for the marked candidate as indicated below:

**ALTERNATE SPECIAL DISTRICT MEMBER OF COUNTYWIDE OVERSIGHT BOARD:**

\_\_\_\_\_ **CHRIS MANN**  
(Member of the Board of Directors of Yucaipa Valley Water District – Valley Region)

\_\_\_\_\_ **T. MILFORD HARRISON**  
(Member of the Board of Directors of the San Bernardino Valley Water Conservation District – Valley Region)

I, \_\_\_\_\_, do hereby certify that at its regularly-scheduled meeting of \_\_\_\_\_, the Board of Directors voted to elect the above-marked candidate as the Alternate Special District Member of the Countywide Oversight Board (Redevelopment) for San Bernardino County, by the following vote:

AYES:

NOES:

ABSENT:

ABSTAIN:

\_\_\_\_\_  
District President/Authorized Board Member

Dated: \_\_\_\_\_



# CHRIS MANN

PUBLIC AFFAIRS  
PUBLIC POLICY  
LOCAL GOV'T PRACTITIONER

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ADMIN ANALYST**  
May 2014 – March 2017

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**PRESIDENT**  
May 2005 – Present

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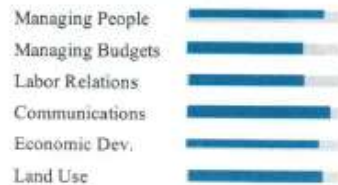
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**DIRECTOR** Yucaipa Valley Water District  
Dec. 2016 – Present Elected in November 2016.

**DIRECTOR** San Geronio Pass Water Agency  
Dec. 2004 – Dec. 2008 Chaired the Finance & Budget Committee.

**MAYOR/  
COUNCIL MEMBER** City of Westlake Village, CA  
Dec. 1999 – Dec. 2003 At the age of 23, defeated an incumbent to become the youngest elected official in CA at the time.

## STRENGTHS



33773 Cansler Way, Yucaipa, CA 92399 (805) 907-6386 chrismann76@gmail.com

**T. MILFORD HARRISON****To Whom It May Concern****March, 2018**

It is an honor to be able to submit this summary of my background and experience in support of my possible appointment to the position of Alternate Special District Member of the Countywide Oversight Board for Redevelopment. A significant portion of my professional career has involved working with, chairing or directing Redevelopment agencies.

As a Government Relations Consultant, I was able to represent clients who proposed and developed various commercial and residential projects which received support from several local City and County Redevelopment Agencies. As a City Council Member for Loma Linda I was involved in the formation of, and was Chairman of, the City's first Redevelopment Agency. During the time I was Chairman the Agency built and occupied our notable City Hall and Fire Museum as well as our auto center and other businesses.

As Mayor of Loma Linda, I participated in the formation and management of what was at that time, the largest multi-jurisdictional Redevelopment Agency in California, the 13,000 acre Inland Valley Development Agency (IVDA). This is the agency charged with the redevelopment of the former Norton Air Force Base.

Two years after leaving the City Council I became Economic Development Director for Loma Linda as the Redevelopment Agency added auto dealerships and assisted in the reconstruction of our major shopping center and building of a number of new businesses. Following this position, I served on the administrative staffs of two San Bernardino County Supervisors. While serving as Chief of Staff to one of the Supervisors, I was chosen to be Executive Director of San Bernardino International Airport and the IVDA. I held that position for four years. During this time we selected Hillwood Development Company to become Master Developer of the IVDA project and they have brought a great deal of value to the Airport and surrounding area!

I am now honored to be a Member of the Board of Directors of the San Bernardino Valley Water Conservation District as well as the Association of San Bernardino County Special Districts. It is a privilege to serve on these Boards. SBVWCD receives a small amount of taxes and therefore redevelopment funds, but the Countywide Oversight Board is intended to look out for those who will have large or small amounts returned. I also hold positions on several California Special Districts Association(CSDA) and Association of California Water Agency(ACWA) Committees.

I would appreciate your consideration of my appointment to this Oversight Board position.



**Cindy Saks, C.P.A.**  
**Deputy General Manager - Administration**  
**San Bernardino Valley Municipal Water District**

Ms. Saks has been employed by the San Bernardino Valley Municipal Water District (Valley District) since February 2007. Based upon the policy decisions set by Valley District's Board of Directors, she is responsible for managing all aspects of the District's financial activities.

Within San Bernardino County, Valley District is the largest Special District receiving funds through the Redevelopment Property Tax Trust Fund (RPTTF). Since Redevelopment Agency Dissolution in 2012, Ms. Saks has been appointed and faithfully served as the Special District representative on the Successor Agency Oversight Boards for the cities of Colton, Grand Terrace, Highland and Redlands. During the past six years as an Oversight Board member, Ms. Saks has gained extensive knowledge of the successor agency financial reporting process including annual Recognized Obligation Payment Schedules (ROPS), Long Range Property Management Plans (LRPMP) and required Taxing Entities Compensation Agreements for RDA asset liquidations. Ms. Saks was instrumental in providing documentation that empowered the Legislature to include language in Senate Bill 107 where revenues attributable to a property tax rate approved by voters to make payments in support of pension programs, capital projects and the State Water Project and levied in addition to the general property tax rate be allocated and paid to the fund of that taxing entity. Thus returning the proper proportionate share of any residual balance of the successor agency RPTTF to the appropriate taxing entity that levied the tax.

Ms. Saks graduated from California State University, San Bernardino with a Bachelors of Science in Business Administration with an emphasis in Accounting. She is a Certified Public Accountant and maintains an active license through the completion of annual continued education requirements. In her previous employment, Ms. Saks worked for over twenty years in public accounting as an Audit Manager conducting independent financial audits of various water districts and special districts.

Throughout her accounting career Ms. Saks has acquired broad experience in evaluating business policies and procedures, reviewing internal controls and performing analytical financial reviews. She is a member of the California Society of Certified Public Accountants, California Society of Municipal Finance Officers and the Government Finance Officers Association.





**Date:** April 3, 2018

**Prepared By:** Joseph Zoba, General Manager

**Subject:** Consideration of Documenting the Significant Historical Events Related to the Management of Water Resources in the Yucaipa Valley

**Recommendation:** That the Board directs the General Manager to execute a contract with Crider Public Relations for a sum not to exceed \$18,000 to prepare a historical summary of the Yucaipa Valley Water District.

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Over the past several decades, the Yucaipa Valley Water District has been able to develop and fully integrate our drinking water, sewer, recycled water, and brine disposal activities. The integration of these facilities is unusual for a special district our size.

At the board workshop on March 13, 2018, the District staff discussed the possibility of preparing a historical book that could be used as a resource for the public, investors, and elected officials. This book would summarize the challenges and successes encountered by the District over the past 50 years.

The District staff has received a draft outline (attached) that can be used to begin to compile the proposed book.

DATE: March 19, 2018

TO: Joseph Zoba  
FROM: Jeff Crider  
SUBJ: History Book Proposal

Thank you for the opportunity to submit a history book proposal to Yucaipa Valley Water District. I have developed history books for several agencies in recent years, including San Bernardino Valley Municipal Water District and Coachella Valley Water District. I also have two other books in the works for Mojave Water Agency and Palmdale Water District, which will be printed later this year.

I research these books using a combination of sources, including water district annual reports; books and articles from local and regional libraries and historical societies; as well as online databases. One of the databases I use has newspaper articles involving Yucaipa going all the back to the late 1800s. I supplement the information I gather from newspaper articles and books with interviews with water district sources and community leaders as needed.

Here are my initial thoughts on how we might structure an illustrated history book for Yucaipa Valley Water District. I think it works best to deal with specific themes in the district's history because this gives us the ability to create a tighter focus and more interesting reading for each chapter.

Potential Chapters:

#### I. The Yucaipa **Valley's** formative years

This initial chapter would look at Yucaipa Valley's agricultural heritage and provide some details involving water use and supply in the 1800s and early 1900s leading up to the emergence of the mutual water companies.

#### II. Early groundwater overdrafts in the Yucaipa Valley

Newspaper accounts indicate that groundwater overdrafts were occurring in the Yucaipa Valley as early as 1930. I will look for reports on these early studies and news reports about them to understand the causes of early overdrafts and how the mutual water companies responded to this problem.

#### III. The early history of privately owned water companies in the Yucaipa Valley.

Published reports indicate that privately owned water companies did not properly maintain their water pumping and distribution systems. There were problems involving water storage, leaks and low water pressure, which prompted numerous complaints. The problems were so bad that Valley District had to intervene and formed assessment

districts to pay for needed improvements in the service areas covered by Yucaipa Water Company Number 1, Yucaipa Domestic Water Company and Western Heights Mutual Water Company.

#### IV. The formation of Yucaipa Valley Water District

More research will be needed, of course, but research I did while assembling a book for Valley District indicates that YVWD was born as a result of the mismanagement of water resources in the Yucaipa Valley by private water companies. This chapter would build on the previous chapters, cite the reasons for the formation of YVWD and document the steps that took place to make YVWD a reality.

#### V. **YVWD's** First Big Battle: Establishing a Sewer Assessment District

This chapter would document the problems with groundwater contamination resulting from leaking septic tanks and increasing state scrutiny and regulation of groundwater quality, which prompted YVWD to establish an assessment district to finance a sewer system. This chapter will also document the legal battle by opponents of the sewer assessment district and YVWD's ultimate triumph in this battle and the strategic importance of YVWD providing sewer service to accommodate the region's business and residential growth.

VI. YVWD brings in State Water Project water in an effort to stop the **valley's** historic overdraft problem and transform the local groundwater basin into a water bank.

This chapter will trace the emergence of YVWD's strategy to supplement local groundwater supplies with State Water Project water in an effort to stop the overdraft of the local groundwater basin and prepare YVWD to accommodate continued business and residential growth. This chapter will document the evolution of this idea from its inception to the construction of the microfiltration plant. This chapter will also include statistics documenting how YVWD has been able to stop the groundwater overdraft problem and increase local groundwater levels.

VI. Rising state scrutiny of TDS, new regulations and the need for more sophisticated wastewater treatment.

This chapter will document the early challenges YVWD faced in meeting state requirements for TDS and how the district had to invest in increasingly sophisticated technologies to meet state requirements. We can build on the article I helped produce for Treatment Plant Operator magazine a few years ago for this section.

VII. How rising population, drought and increasing state regulations prompted YVWD to recycle its wastewater.

This chapter will discuss population growth in the Yucaipa Valley, the recent years of drought, climate change, rising uncertainties in State Water Project deliveries and YVWD's decision to develop a recycled water capability in an effort to meet these challenges and further strengthen the district's ability to create a water bank. This section will also include a discussion of the technologies used in recycled water production.

#### VIII. **YVWD's Brine Line:** Its significance for recycled water and for future economic development in the Yucaipa / Calimesa area.

This chapter will focus on the brine line, why it's important and how the brineline is not only critical for wastewater recycling, but how it can serve as an enticement to lure factories and other businesses to the Yucaipa / Calimesa area. This section could include commentary from businesses that are taking advantage of the brineline and/or appreciate its economic potential for the region.

#### IX. **YVWD Gains National and International Attention**

This chapter would highlight the success of YVWD's water and wastewater and recycling initiatives and the extent to which they have captured national and international attention, as evidenced by the frequent visits the district receives by water industry professionals from across the U.S. and around the world, as evidenced by visiting delegations from Korea, Mexico and other countries who are wanting to learn from YVWD's successes.

#### X. **The Mutual Water Companies Strike Again:** This time as opponents of recycled water use - and water conservation - inside their service areas.

This chapter will examine recent policies and practices of mutual water companies in the Yucaipa Valley and the extent to which they hinder or support the use of recycled water and other conservation efforts in the Yucaipa Valley.

#### XI: **YVWD's Efforts To Improve Regional Water Management**

This chapter will document YVWD's efforts to improve cooperation and collaboration with other water agencies, including Beaumont-Cherry Valley Water District, the City of Banning and the San Gorgonio Pass Water Agency, and cite recent agreements with these agencies involving the use of State Water Project water. This section will also include discussion of the factors that prompted YVWD to join the regional Groundwater Council and what the district hopes to achieve through this affiliation.

#### XII: **YVWD Makes Recycled Water Available To Regional Water Partners**



This chapter will document the successful use of recycled water in Yucaipa and in other neighboring water districts as well as YVWD's efforts to make some of its recycled water available to its regional water agency partners.

#### XIII. YVWD moves towards the recharge of recycled water

This chapter will assess the potential use of recycled water for groundwater recharge purposes, the timing for such uses, and the extent to which this could help protect the groundwater basin in the future.

#### XIV. **YVWD's** Strategic Planning: New Water Management Initiatives for the 21st Century

This chapter would examine YVWD's latest planning, its anticipated water needs in the future and intended sources of water to meet those needs, as outlined in strategic plans and Urban Water Management Plans. This section would also include commentary from district managers, board members and community leaders.

This section would also include discussion of YVWD's efforts to cultivate a new generation of water managers through its support of STEM curriculms at local colleges as well as the district's hiring of students who complete these programs.

Budget: \$18,000

I produced 100-page history books for Valley District and Coachella Valley Water District for \$24,000. This worked out to 282 hours of work time at my billing rate of \$85 per hour, including interviews, research, writing, editing, photo research and half of my drive time. This time also included time meeting with the graphics artist to design, edit and print each section.

Because of my increasing history book writing experience and greater familiarity with YVWD, I believe I could produce the text of a history book for YVWD, gather relevant photos (including photos I have taken previously for YVWD) and work with a graphics artist to produce the book for \$18,000, which would amount to 211 hours of my work time.

Proposed Timeline: Complete project by December

With my current workload, I estimate that I could complete the project in nine months, meaning by December of this year. If you needed it completed sooner than that we can talk about. But December is feasible. I would envision using my time as follows:

April to August: Research, interviews and photo research

September 1: Provide YVWD with detailed updated outline for the history book.

September to November: History book writing

December 3: Text submitted to YVWD.

December: Editing and Work with Graphics Artists on Layout

#### Note Regarding Graphics Artist

Angie Agostino of Palm Springs is the graphics artist who designed the history book I wrote for Coachella Valley Water District. She is currently designing the book I am writing for Palmdale Water District as well. I can provide you with her contact information if you would like to get a quote from her on her graphic design services. She is the best graphics / layout person I have met so far.

Please let me know if you would like me to address any other specific topics of interest so I can incorporate them into the outline. I appreciate the opportunity to submit this proposal and look forward to hearing back from you soon.

Sincerely,

Jeff Crider

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# Board Reports



Yucaipa Valley Water District

# 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

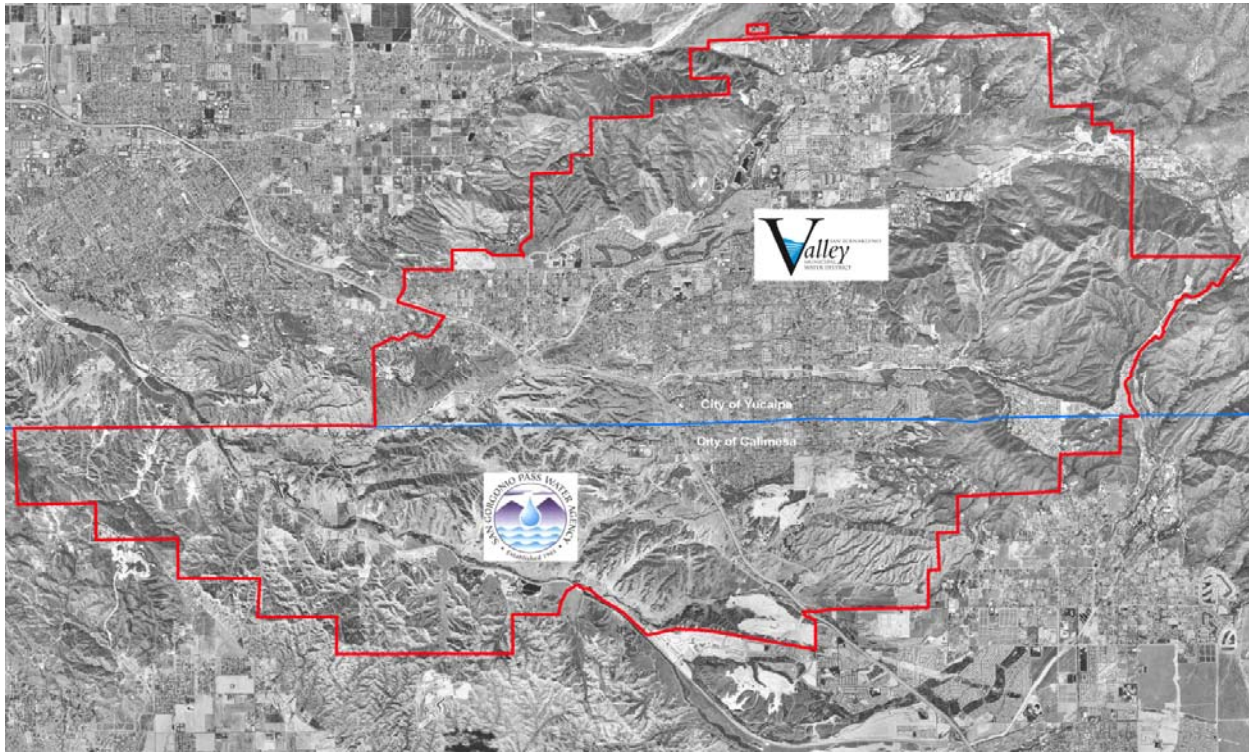
**Water System:** 215 miles of drinking water pipelines  
27 reservoirs - 34 million gallons of storage capacity  
18 pressure zones  
12,000 ac-ft annual water demand (3.9 billion gallons)  
Two water filtration facilities:  
- 1 mgd at Oak Glen Surface Water Filtration Facility  
- 12 mgd at Yucaipa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

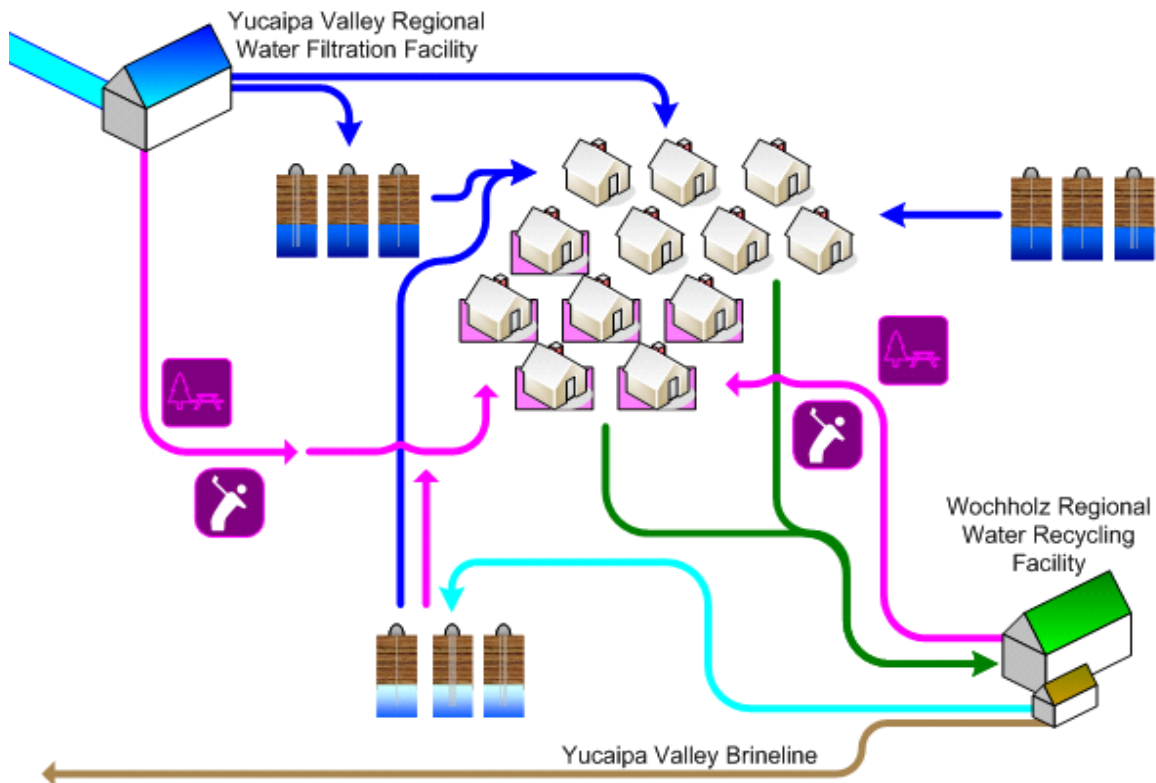
**Recycled Water:** 22 miles of recycled water pipelines  
5 reservoirs - 12 million gallons of storage  
1,200 ac-ft annual recycled demand (0.4 billion gallons)

**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

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