PALMDALE WATER DISTRICT

A CENTURY OF SERVICE

January 22, 2025

AGENDA FOR REGULAR MEETING OF THE BOARD OF DIRECTORS OF THE PALMDALE WATER DISTRICT TO BE HELD AT 2029 EAST AVENUE Q, PALMDALE

MONDAY, JANUARY 27, 2025

6:00 p.m.

NOTES: To comply with the Americans with Disabilities Act, to participate in any Board meeting please contact Danielle Henry at 661-947-4111 x1059 at least 48 hours prior to a Board meeting to inform us of your needs and to determine if accommodation is feasible.

Additionally, an interpreter will be made available to assist the public in making **comments** under Agenda Item No. 4 and any action items where public input is offered during the meeting if requested at least 48 hours before the meeting. Please call Danielle Henry at 661-947-4111 x1059 with your request. (PWD Rules and Regulations Section 4.03.1 (c))

Adicionalmente, un intérprete estará disponible para ayudar al público a hacer **comentarios** bajo la sección No. 4 en la agenda y cualquier elemento de acción donde se ofrece comentarios al público durante la reunión, siempre y cuando se solicite con 48 horas de anticipación de la junta directiva. Por favor de llamar Danielle Henry al 661-947-4111 x1059 con su solicitud. (PWD reglas y reglamentos sección 4.03.1 (c))

Agenda item materials, as well as materials related to agenda items submitted after distribution of the agenda packets, are available for public review at the District's office located at 2029 East Avenue Q, Palmdale or on the District's website at https://www.palmdalewater.org/governance/board-activity/2025-meeting-agendas-minutes/ (Government Code Section 54957.5). Please call Danielle Henry at 661-947-4111 x1059 for public review of materials.

PUBLIC COMMENT GUIDELINES: **The prescribed time limit per speaker is three-minutes. Please refrain from public displays or outbursts such as unsolicited applause, comments, or cheering. Any disruptive activities that substantially interfere with the ability of the District to conduct its meeting will not be permitted, and offenders will be requested to leave the meeting. (PWD Rules and Regulations, Appendix DD, Sec. IV.A.)** Each item on the agenda shall be deemed to include any appropriate motion, resolution, or ordinance to take action on any item.

1) Pledge of Allegiance/Moment of Silence.
2) Roll Call.
3) Adoption of Agenda.
4) Public Comments for Non-Agenda Items.

5) Presentations:

5.1) None at This Time.

6) Action Items - Consent Calendar (The public shall have an opportunity to comment on any action item on the Consent Calendar as the Consent Calendar is considered collectively by the Board of Directors prior to action being taken.)

6.1) Approval of Minutes of Regular Board Meeting held January 13, 2025.

6.2) Payment of Bills for January 27, 2025.

6.3) Receive and File Semi-Annual Employee Reimbursement Report for the Period Covering July 1, 2024 through December 31, 2024. (No Budget Impact – Finance Manager Hoffmeyer)

6.4) Approval to Update Driver's License Requirements for Certain Job Descriptions per SB 1100. (Human Resources Director Garcia)

7) Action Items – Action Calendar (The public shall have an opportunity to comment on any action item as each item is considered by the Board of Directors prior to action being taken.)

7.1) Consideration and Possible Action on Approval of Hauling and Disposal Costs of Residual Solids Generated at the Leslie O. Carter Water Treatment Plant. ($110,000.00 – Not-to-Exceed – Non-Budgeted – Operations Manager Marcinko)

7.2) Consideration and Possible Action to Approve the Amended Water Supply Assessment for the Quail Valley Development. (Engineering Manager Bader)

7.3) Consideration and Possible Action on Approval of Interim Increase to the Rate Assistance Program. (No Budget Impact – Customer Care Supervisor Rosati/Finance Manager Hoffmeyer)

7.4) Consideration and Possible Action on Authorization of the Following Conferences, Seminars, and Training Sessions for Board and Staff Attendance within Budget Amounts Previously Approved in the 2025 Budget:

a) AVO Training Institute NFPA 70B Standard for Electrical Equipment Maintenance in Pasadena, CA.

b) AVO Training Institute NFPA 70E – 2024 Electrical Safety in Pasadena, CA.

c) AWWA California-Nevada Water Conference of the West to be held April 7-10, 2025 in Anaheim.

8) Information Items:

8.1) Reports of Directors:

a) Standing Committees; Organization Appointments; Agency Liaisons:

1) Antelope Valley East Kern Water Agency (AVEK) Meeting – January 14. (Director Dino, Board Liaison/President Mac Laren-Gomez, Alt.)

2) Palmdale Fin & Feather Club Meeting – January 18. (Director Wilson/Director Kellerman, Alt.)

3) Finance Committee Meeting – January 21. (Director Wilson, Chair/Director Kellerman/Director Sanchez, Alt.)

b) General Meetings Reports of Directors.

8.2) Report of General Manager.

a) Department Activity Updates:

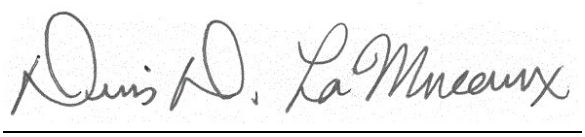
1) Engineering Department. (Assistant General Manager Rogers/ Engineering Manager Bader)

b) January 2025 Written Report of Activities through December 2024.

8.3) Report of General Counsel.

9) Board Members' Requests for Future Agenda Items.

10) Adjournment.



DENNIS D. LaMOREAUX,
General Manager

DDL/dh

BOARD MEMORANDUM

DATE: January 27, 2025

TO: **BOARD OF DIRECTORS**

FROM: Mr. Dennis Hoffmeyer, Finance Manager/CFO

VIA: Mr. Dennis D. LaMoreaux, General Manager

RE: ***RECEIVE AND FILE SEMI-ANNUAL EMPLOYEE REIMBURSEMENT REPORT FOR THE PERIOD COVERING JULY 1, 2024 THROUGH DECEMBER 31, 2024. (NO BUDGET IMPACT – FINANCE MANAGER HOFFMEYER)***

Recommendation:

Staff recommends the Board receive and file the Semi-Annual Employee Reimbursement Report for the period covering July 1, 2024 through December 31, 2024.

Background:

Staff reimbursements are based on the approved budget. It is required that the District report to the governing body Employee Reimbursements in excess of $100.00 on a semi-annual basis.

Strategic Plan Initiative/Mission Statement:

This item is under Strategic Initiative No. 4: Financial Health and Stability

This item directly relates to the District's Mission Statement.

Budget:

Receiving and filing the Employee Reimbursement Report will not affect the budget

Supporting Documents:

- Semi-Annual Employee Reimbursement Report for the period covering July 1, 2024 through December 31, 2024.

PALMDALE WATER DISTRICT

Semi-Annual Employee Reimbursement Report

Period Covering July 1, to December 31, 2024

Employee ID	Employee Name	Pay Date	Item Description	Amount
1210	CURTIS COBB	07/03/24	TRAVEL EXPENSE	1,926.62
4080	ANGELICA BARRAGAN-GARCIA	07/03/24	TRAVEL EXPENSE	465.35
4085	MICHELLE TREJO	07/03/24	TRAVEL EXPENSE	190.28
4093	WENDELL WALL	07/03/24	TRAVEL EXPENSE	188.94
4098	MARIKSA MARIN	07/03/24	EDUCATION EXPENSE REGULAR	114.70
4101	ROSA HUDSON	07/03/24	EDUCATION EXPENSE REGULAR	434.24
4007	DAN MENKO	07/17/24	EDUCATION EXPENSE REGULAR	300.00
1778	GLORIA BARRAGAN	08/02/24	EDUCATION EXPENSE REGULAR	230.00
3205	CHRIS VIDAL	08/28/24	EDUCATION EXPENSE REGULAR	133.54
4033	DANIEL MALDONADO	08/28/24	EDUCATION EXPENSE ADVANCED	1,950.08
4040	JESUS MOTA	08/28/24	TRAVEL EXPENSE	293.44
4067	BRIAN TONER	08/28/24	EDUCATION EXPENSE REGULAR	179.00
4095	JOHN WUCHERPFENNIG	09/11/24	BOOT EXPENSE	198.44
4098	MARIKSA MARIN	09/11/24	EDUCATION EXPENSE REGULAR	255.00
2100	DENNIS LAMOREAUX	09/25/24	TRAVEL EXPENSE	175.50
2100	DENNIS LAMOREAUX	09/25/24	TRAVEL EXPENSE	301.18
4077	DYLAN DOLL	09/25/24	EDUCATION EXPENSE REGULAR	210.00
4105	JOSEPH MARCINKO	09/25/24	EDUCATION EXPENSE REGULAR	399.00
1150	ERIK BOUTHILLIER	10/09/24	TRAVEL EXPENSE	443.54
1150	ERIK BOUTHILLIER	10/09/24	TRAVEL EXPENSE	236.51
4005	MARIA AVELAR	10/09/24	TRAVEL EXPENSE	150.75
1730	PETER HENRIE	10/23/24	EDUCATION EXPENSE REGULAR	169.90
3205	CHRIS VIDAL	10/23/24	EMPLOYEE EXPENSE	334.97
4073	JENNIFER VILLA	10/23/24	EMPLOYEE EXPENSE	341.90
4078	DUSTIN ADAMS	10/23/24	BOOT EXPENSE	218.99
4080	ANGELICA BARRAGAN-GARCIA	10/23/24	EMPLOYEE EXPENSE	114.13
4098	MARIKSA MARIN	10/23/24	EMPLOYEE EXPENSE	812.54
4105	JOSEPH MARCINKO	10/23/24	EDUCATION EXPENSE REGULAR	105.00
4108	LILIAN LOPEZ CONTRERAS	10/23/24	EMPLOYEE EXPENSE	845.19
1525	MICHAEL EDGAR	11/06/24	BOOT EXPENSE	214.98
4080	ANGELICA BARRAGAN-GARCIA	11/06/24	EMPLOYEE EXPENSE	114.13
4093	WENDELL WALL	11/06/24	TRAVEL EXPENSE	128.24
4114	LANCE BROUGH	11/06/24	BOOT EXPENSE	228.86
1780	DENNIS HOFFMEYER	11/20/24	TRAVEL EXPENSE	222.44
1910	KELLY JETERS	12/04/24	EDUCATION EXPENSE REGULAR	549.00
4067	BRIAN TONER	12/04/24	BOOT EXPENSE	181.86
2100	DENNIS LAMOREAUX	12/18/24	TRAVEL EXPENSE	185.37
4046	JUDY ALLEVATO	12/18/24	TRAVEL EXPENSE	206.98
4093	WENDELL WALL	12/18/24	EDUCATION EXPENSE REGULAR	105.00
				13,855.59

BOARD MEMORANDUM

DATE: January 27, 2025

TO: **BOARD OF DIRECTORS**

FROM: Mrs. Angelica Garcia, Human Resources Director

VIA: Mr. Dennis D. LaMoreaux, General Manager

RE: ***APPROVAL TO UPDATE DRIVER'S LICENSE REQUIREMENTS FOR CERTAIN JOB DESCRIPTIONS PER SB 1100. (HUMAN RESOURCES DIRECTOR GARCIA)***

Recommendation:

Staff recommends that the Board approve the changes to update the driver's license requirements for certain job descriptions per SB 1100.

Alternative Options:

The Board can choose not to approve, and all positions will continue to require a driver's license.

Impact of Taking No Action:

The District would be out of compliance with the new SB 1100 law that went into effect January 1, 2025.

Background:

SB 1100 went into effect January 1, 2025. This bill states the following:

"It is an unlawful employment practice for an employer to include a statement in various employment materials that an applicant must have a driver's license unless the employer reasonably expects the duties of the position to require driving and the employer reasonably believes that satisfying that job function using an alternative form of transportation would not be comparable in travel time or cost to the employer, as specified."

Staff is recommending that the requirement to have a driver's license for the below job titles be eliminated based on the criteria for SB 1100.

Account Technician	Executive Assistant
Accounting Supervisor	Management Analyst-Admin
Accounts Payable Technician	Management Analyst-Eng
Customer Account Technician	Management Analyst-Finance
Customer Care Representative III	Management Analyst-WUE
Customer Care Supervisor	Principal Engineer
Engineering Analyst	Resource and Analytics Supervisor
Engineering Manager	

Strategic Plan Initiative/Mission Statement:

This item is under Strategic Initiative No. 2 – Organizational Excellence.

Budget:

This item has no budget impact.

Supporting Documents:

None.

BOARD MEMORANDUM

DATE: January 27, 2025

TO: **BOARD OF DIRECTORS**

FROM: Mr. Joe Marcinko, Operations Manager

VIA: Mr. Dennis D. LaMoreaux, General Manager

RE: ***CONSIDERATION AND POSSIBLE ACTION ON APPROVAL OF HAULING AND DISPOSAL COSTS OF RESIDUAL SOLIDS GENERATED AT THE LESLIE O. CARTER WATER TREATMENT PLANT. ($110,000.00 – NOT-TO-EXCEED – NON-BUDGETED – OPERATIONS MANAGER MARCINKO)***

Recommendation:

Staff recommends that the Board approve the hauling and disposal costs for the residual solids generated at the Leslie O Carter Water Treatment Plant (WTP).

Alternative Options:

The residual solids must be periodically hauled offsite and disposed of properly because the material is continuously generated by Palmdale Water District's (PWDs) treatment process and PWD must follow a "Cradle to Grave" protocol. This means the residual solids material generated needs to be analyzed to determine its composition, classified as hazardous or non-hazardous and disposed of in a proper way and location to protect both human health and the environment.

Impact of Taking No Action:

PWD's WTP generates a lot of material from the water treatment process. The amount constantly accumulates and moved to different ponds for drying and containment. If we do not haul it off and dispose of it, we will run out of areas to place the solids and shut down the WTP.

Background:

PWD's WTP continuously generates residual solid material from the water treatment process. Because of the amount of material we generate, we are classified as a "Large" waste generator. The solid material is continuously collected in various ponds and dried to remove excess water. This material continues to accumulate and once dried needs to be analyzed, hauled off and disposed of. Previously, the residual solids were hauled off and disposed of in a local quarry, but that disposal option is no longer available. PWD staff investigated options, and the best option was to utilize the local Waste Management Landfill located very close to the WTP in Palmdale. This option has both the lowest cost of disposal and the lowest hauling costs due to the proximity.

Strategic Plan Initiative/Mission Statement:

This item is under Strategic Initiative No. 2 – Organizational Excellence.

The item directly relates to the District's Mission Statement.

Budget:

The estimated cost for hauling and disposal is not-to-exceed $110,000.00 and is not budgeted.

Supporting Documents:

- Waste Management Agreement #371983 (Profile # 660054CA)
- Solids Haul & Disposal Estimate

Industrial Waste & Disposal Services Agreement

Exhibit A

Profile number: 660054CA TSR : Ginny Williams Sales person: 351

A. GENERATOR

1. Name: Palmdale Water District
2. Address: 700 E. AVENUE S
   City: PALMDALE County: Los Angeles
   State: CA ZIP code: 93550

B. CUSTOMER BILLING INFORMATION

1. Name: Palmdale Water District
2. Address: 2029 East Avenue Q
   City: PALMDALE
   State: CA ZIP code: 93550
3. Contact name: Joe Marcinko
4. Email: jmarcinko@palmdalewater.org
5. Phone: (661) 621-1940 6. Fax:
7. P.O. number: 1-05-4236-000

C. FACILITY ❑ See Attached

1. Name(s): Palmdale Landfill

D. MATERIAL

1. Name: Water Treatment Residual Solids
2. Anticipated volume: 1000 Tons

E. CHARGES ❑ See Attached

DESCRIPTION	RATE	MINIMUM
Palmdale Landfill		
Waste Approvals Standard	$100.00 / Profile	
Treatment Method Direct Landfill	$67.67 / Ton	1 Ton / Load
Tax All Applicable Taxes	N/A	
Energy Standard Disposal Energy - Fluctuates on weekly basis	5.91 %	
WWM Waste Water Management	Exempt	
Additional Services Certificate of Disposal-As Needed	$65.00 / Each	
Transportation Haul	$202.50 / Hr Portal to portal	8 / Hr per truck per day

Other services not listed above will incur additional charges that vary by location and are subject to change without notice. Payment of invoice represents agreement of such charges.

PLEASE REVIEW SECTION F WHICH CONTAINS IMPORTANT COMMENTS REGARDING YOUR WASTE STREAM.

F. COMMENTS ☑ See Attached

• The Company reserves the right to refuse any load or discontinue any waste stream should such waste pose a threat to human health or safety, prove to be operationally challenging, or is in violation of any Company permit.

• All loads must be accompanied by proper shipping paper.

• If the Company received authorization to make changes to your waste profile during the approval process, your acceptance and execution of this Exhibit A confirms the accuracy of the changes.

• If WM (or a WM contracted hauler) is not providing the transportation services, you must ensure that the transporter is licensed and approved to haul the applicable Special Waste and/or Hazardous Waste. All third-party transporters must comply with WM safety requirements and procedures (including without limitation, wearing a hard hat, safety glasses, steel-toe boots, and safety vest). If transporting to a Chemical WM facility, a Tyvek suit and respirator are also required. Please review and abide by safety information by visiting WMSolutions.com/safety.

• Prices quoted herein are valid for 30 days. Unless WM is hired for this project prior to the expiration of this 30 day period in which case pricing remains valid in accordance with the terms of the Service Agreement.

• Pricing is based on the information provided on your profile and the representative data previously submitted. Charges incurred for additional services not listed above will be subject to standard rates and, payment of the invoice represents mutual agreement of those charges.

• The Energy Surcharge percentage can fluctuate on a weekly basis; please see www.wm.com/esc for more information on the Energy Surcharge and its calculation and historical values. The actual percentage rate applied to the total project invoice will be determined on the date each load is received.

• Acceptance of waste is contingent upon the completion, submittal and approval of special waste profile sheet, required analytical, Industrial Waste & Disposal Services Agreement (ISA), and Exhibit A or other pricing document.

• The above Charges are for the listed services only. Charges for all additional services will be at current rates at the time of disposal. These include but are not limited to Demurrage, Dig Out, Rinse Out, Solidification, Stabilization. State & Local Taxes, and/or fees, if applicable, will also be added to the Charges. Contact your TSC for a full list of such additional services and current charges.

• The work contemplated by this Exhibit A is to be done in accordance with the terms and conditions of the Industrial Waste & Disposal Services Agreement or other contractual agreement between the parties. In the case of profiled waste, facility and generator conditions will be listed in WMSolutions.com Account under the WAM Approval Form upon final approval confirmation.

• For profiled waste, facility and generator conditions will be listed in Industrial and Hazardous Waste Solutions | WMSolutions.com Account under the WAM Approval Form upon final approval confirmation. All completed profile approval form(s) including any generator conditions and special handling instructions in such form(s) also shall be part of this Industrial Waste & Disposal Services Agreement and binding upon Customer. Your execution of this Exhibit A confirms that you have read, understand, and agree to such generator conditions and special handling instructions.

• Unit pricing shown above is based on unit of measure provided on the profile paperwork. Waste delivered in a different manner or a different unit of measure will be charged at current gate rate or current contract rate for that commodity.

• The services provided by Waste Management on this Exhibit are not subject to prevailing wage or other special labor wage agreements.

• Waste Management will not provide individual signed manifests or weights tickets with the invoice for special waste projects. Consolidated project summary reports and certification statements can be provided upon request. If tickets and/or manifests are also requested by the Customer, additional fees may apply.

• Any trailer load exceeding 85,000 pounds or tri-axle exceeding 80,000 pounds Gross Vehicle Weight (GVW) can be assessed an Overweight Load Surcharge of no less than $100.00 per load applied to that weight ticket. Vehicles

The work contemplated by this Exhibit A is to be done in accordance with the terms and conditions of the Industrial Waste & Disposal Services Agreement or other contractual agreement between the parties dated: 12/12/2023

YOUR ACCEPTANCE OF THESE TERMS CREATES A BINDING AGREEMENT AS FOLLOWS: (I) TYPE OR SIGN YOUR NAME AND TITLE WHERE INDICATED BELOW OR (II) YOUR TENDER OR DELIVERY TO COMPANY OF THE INDUSTRIAL WASTE DESCRIBED IN THE COMPANY APPROVED PROFILE SHEET AND (IF APPLICABLE) CONFIRMATION LETTER SHALL CONSTITUTE YOUR ACCEPTANCE OF THESE TERMS WITHOUT YOUR SIGNATURE.

COMPANY

By: Felicia Mendez Date: 12/05/2024

Name: Felicia Mendez

Title: Technical Service Representative

CUSTOMER

Signature: Joe Marcinko Date: 12/05/2024

Name: Joe Marcinko

Title: Operations Manager

F. COMMENTS

exceeding 90,000 pounds GVW will be subject to an Overweight Load Surcharge of no less than $500 per load applied to that weight ticket. All Overweight Load Surcharges are subject to tax and WM's standard invoice charges including the Energy Surcharge.

#	Description	Unit Price	Unit	Amount	Unit	Total	Description	
1	WM Approval	$ 100.00	1	$ 100.00	$	$100.00	Approval Fee	
2	WM Landfill	$67.67	per ton	1000	Tons	$67,670	Landfill Fee	
3	Hauling Charges	$202.50	per Hour	8	Hours	$1,620	Price per 8 hr day	(Not added)
4	Est. Hauling Time	13	Days	$1,620	$ / Day	$21,060	Hauling Total	(1 Truck)
5	Disposal Energy Fee	5.91	%	$67,670	$ Disp Total	$3,999.30	Estimated Energy Fee	
6	Contingency	15	%	$92,829	$ H & D Totals	$13,924.39	Contingency	
						$106,653.69	Estimated Total Cost	

Estimated Hauling Time

1000	Tons	20 Tons	per Load	=	50 Trips	/	4 Trips per day	= 12.5 days	(1 Truck)

BOARD MEMORANDUM

DATE: January 27, 2025

TO: **BOARD OF DIRECTORS**

FROM: Mr. Shadi Bader, Engineering Manager

VIA: Mr. Dennis LaMoreaux, General Manager

RE: ***CONSIDERATION AND POSSIBLE ACTION TO APPROVE THE AMENDED WATER SUPPLY ASSESSMENT FOR THE QUAIL VALLEY DEVELOPMENT. (ENGINEERING MANAGER BADER)***

Recommendation:

Staff recommends that the Board of Directors approve the amended Water Supply Assessment for the Quail Valley Development.

Alternative Options:

There is no alternative option.

Impact of Taking No Action:

There is no impact from no action.

Background:

Senate Bill 610 of 2001 (SB 610) requires that water suppliers provide a Water Supply Assessment (WSA) to planning agencies for any proposed projects which are subject to the California Environmental Quality Act (CEQA) and would demand an amount of water equivalent to or greater than the amount of water required by a 500 dwelling unit project.

The Palmdale Water District (District) received a WSA for the Quail Valley Development since the proposed project contains more than 500 residential dwelling units. The initial WSA was developed in January 2007 and adopted by the District on May 23, 2007. Subsequently, a new WSA was developed in 2015 and adopted by the District Board on December 16, 2019. The Quail Valley, LLC requested several extensions. Most recently, District staff granted an extension until January 31, 2025 and the WSA be updated to reflect the 2020 Urban Water Management Plan (UWMP) and be adopted by the District Board. Information from the Palmdale Water District 2020 UWMP (June 2021), which included the proposed Quail Valley Development project, was used to prepare the updated WSA.

The District has sufficient water supply available for this project, and a portion of the required water supply will be provided by projected water supplies identified in the 2020 Urban Water Management Plan.

The amendment consists of identifying the water supply for the development that will be provided by the District, including properties outside the District's service area inclusive of an important water exchange agreement between AVEK and the District.

Strategic Plan Initiative/Mission Statement:

This item is under Strategic Initiative No. 1 – Water Resource Reliability which directly relates to the District's Mission Statement.

Budget:

This item has no impact on budget.

Supporting Documents:

- Presentation on Quail Valley Development Amended Water Supply Assessment
- Water Supply Assessment – Quail Valley (January 2025)
- Term Sheet for Retail Water Service and Imported Water Supply for the Proposed Quail Valley Planned Development

PALMDALE WATER DISTRICT
A CENTURY OF SERVICE

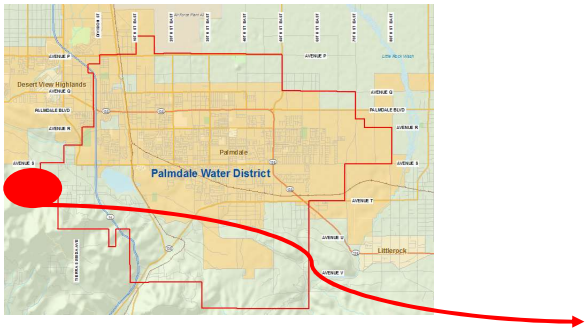
QUAIL VALLEY DEVELOPMENT AMENDED WATER SUPPLY ASSESSMENT

Board of Directors Meeting

January 27, 2025

1

Location Map



PALMDALE WATER DISTRICT
A CENTURY OF SERVICE

2

Project Facts

- Development shows 730 SFR
- Senate Bill 610 requires a Water Supply Assessment (WSA) for any development > 500 units
- Original WSA was adopted on May 23, 2007
- An amendment was approved by Board on December 16, 2019 based on 2015 UWMP
- This new amendment will be based on the 2020 UWMP

- **This item is under Strategic Initiative No. 1 – Water Resource Reliability which directly relates to the District's Mission Statement.

PALMDALE WATER DISTRICT
A CENTURY OF SERVICE

3

Recommendation

- Staff recommends that the Board of Directors approve the amendment of the attached Water Supply Assessment for the Quail Valley Development.

PALMDALE WATER DISTRICT
A CENTURY OF SERVICE

4

SB610 Water Supply Assessment
Quail Valley Tentative Tract. 65813

Prepared for
Quail Valley LLC

Prepared by
Cannon
11900 West Olympic Blvd, Ste 530
Los Angeles, CA 90064
310.664.1166

Date
January 9, 2025

WATER SUPPLY ASSESSMENT (SB 610)

Water Code §10910 et seq.

To: Palmdale Water District
2029 East Avenue Q
Palmdale, CA 93550

Project Title: Quail Valley Water Supply Assessment

The following determination has been made regarding the above-described project:

- [X] The projected water demand for the project was included in the District's most recently adopted urban water management plan.
- [ ] Based on additional sources of information, a sufficient water supply is available for the project. The total water supplies available to PWD during normal, single-dry, and multiple-dry years within a 20-year projection will meet the projected water demand under the project in addition to the demand of existing and other planned future uses, including, but not limited to, agricultural uses.
- [ ] A sufficient water supply is not available for the project. *[Plan for acquiring and developing sufficient supply attached. Water Code§ 10911 (a)].*

The foregoing determination is based on the following Water Supply Assessment (WSA) Information and supporting information in the 2015 Urban Water Management Plan for Palmdale Water District.

Signature	Date	Title
	1/9/25	Michael Kielborn, PE Principal Engineer

Table of Contents

Figures and Tables

Appendices

1. INTRODUCTION

This Water Supply Assessment was prepared for the proposed Quail Valley project for the Palmdale Water District, pursuant to the requirements of Section 10910 of the State Water Code, as amended by Senate Bill No. 610, Chapter 643 (2001).

1.1 Background

Senate Bill No. 610, effective January 1, 2002, requires the water purveyor (the District) or county, which determines that a "project" (as defined in Water Code§ 10912) is subject to the California Environmental Quality Act (CEQA), to identify any public water system that may supply water for the project and to request those public water systems to prepare a specified water supply assessment. The assessment is required to include an identification of existing water supply entitlements, water rights, or water service contracts relevant to the identified water supply for the proposed project and water received in prior years pursuant to those entitlements, rights, and contracts. The assessment must be approved by the governing body of the public water system supplying water to the project. If the projected water demand associated with the project was included as part of the most recently adopted urban water management plan, the public water system may incorporate the requested information from the urban water management plan in the water supply assessment.

The bill requires the water purveyor or county, if it is not able to identify any public water system that may supply water for the project, to prepare the water supply assessment after a prescribed consultation. If the public water system concludes that water supplies are, or will be, insufficient, plans for acquiring additional water supplies are required to be submitted to the water purveyor or county. The water purveyor or county must include the water supply assessment in any environmental document prepared for the project pursuant to the act. It also requires the water purveyor or county to determine whether project water supplies will be sufficient to satisfy the demands of the project, in addition to existing and planned future uses.

A "project" under Section 10912 includes the following:

a. A proposed residential development of more than 500 dwelling units.
b. A proposed shopping center or business establishment employing more than 1,000 persons or having more than 500,000 square feet of floor space.
c. A proposed commercial office building employing more than 1,000 persons or having more than 250,000 square feet of floor space.
d. A proposed hotel or motel, or both, having more than 500 rooms.
e. A proposed industrial, manufacturing, or processing plant, or industrial park planned to house more than 1,000 persons, occupying more than 40 acres of land, or having more than 650,000 square feet of floor area.
f. A mixed-use project that includes one or more of the projects specified in this subdivision.
g. A project that would demand an amount of water equivalent to, or greater than, the amount of water required by a 500 dwelling unit project.

The Quail Valley project includes 676 single family lots, 54 rural lots, and 86 private/public lots which meet the definition of a project under Section 10912.

1.2 Project Location and Description

The proposed Quail Valley project is a proposed development of approximately 878 acres located in the City of Palmdale, California. The project is south of Avenue S and west of State Route 14. The property will be annexed to the Palmdale Water District (PWD) and is covered in the District's 2020 Urban Water Management Plan (UWMP). Quail Valley will consist of 676 single family residential lots, 54 rural lots, and 86 private/public lots.

2. WATER SUPPLY

Water Code Section 10910(b) requires the identification of the public water system that may serve the project. Portions of the project are within PWD's district boundary. The southerly portion of the development area is within the boundary of the Antelope Valley-East Kern Water Agency (AVEK). This same portion is outside of the Sphere of Influence of the Los Angeles County Water Works District. PWD has the available water supply for the new development, and has facilities located on and immediately adjacent to the project. The portion of the project outside of the PWD boundary will be serviced by PWD inclusive of an imported water exchange agreement with AVEK.

PWD utilizes multiple water resources to meet its water supply needs. Currently, PWD receives water from three sources:

- Groundwater from the Antelope Valley Groundwater Basin
- Surface water from Littlerock Dam Reservoir, and
- Imported water from the State Water Project (SWP).

PWD does not have recycled water supplies but is actively in the process of developing the use of non-potable water. This will offset potable water demands and diversify PWD's water supply options along with providing additional reliability. Future recycled water use is discussed later in this section. Additionally, PWD is developing new sources of supply via groundwater banking and anticipated new supplies from transfer and exchange opportunities, which are discussed in this section as well. PWD does not currently nor does it have plans to use stormwater.

2.1 Groundwater Supply:

Water Code Section 10910(f) states that: *If a water supply for a proposed project includes groundwater, the following additional information shall be included in the water supply assessment:*

(1) A review of any information contained in the urban water management plan relevant to the identified water supply for the proposed project.

(2) A description of any groundwater basin or basins from which the proposed project will be supplied for those basins for which a court or the board has adjudicated the rights to pump groundwater, a copy of the order or decree adopted by the court or the board and a description of the amount of groundwater the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), has the legal right to pump under the order or decree. For basins that have not been adjudicated, information as to whether the department has identified the basin or basins as over drafted or has projected that the basin will become over drafted if present management

conditions continue, in the most current bulletin of the department that characterizes the condition of the groundwater basin, and a detailed description by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), of the efforts being undertaken in the basin or basins to eliminate the long-term overdrafted condition.

(3) A detailed description and analysis of the amount and location of groundwater pumped by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), for the past five years from any groundwater basin from which the proposed project will be supplied. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.

(4) A detailed description and analysis of the amount and location of groundwater that is projected to be pumped by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), from any basin from which the proposed project will be supplied. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.

(5) An analysis of the sufficiency of the groundwater from the basin or basins from which the proposed project will be supplied to meet the projected water demands associated with the proposed project. A water supply assessment shall not be required to include the information required by this paragraph if the public water system determines, as part of the review required by paragraph (1), that the sufficiency of groundwater necessary to meet the initial and projected water demand associated with the project was addressed in the description and analysis required by paragraph (4) of subdivision (b) of Section 10631.

PWD's groundwater supply is the Antelope Valley Groundwater Basin. Groundwater pumping makes up a significant proportion of PWD's water supply portfolio, accounting for about 35 percent of supplies since 2016. This water is treated with chlorine disinfection and pumped directly into PWD's potable distribution system. Since 1995, PWD has produced an average of 9,759 AFY of groundwater per year. The availability of groundwater supply for PWD does not vary throughout the course of a year.

The Antelope Valley Groundwater Basin is about 940 square miles and made up of a series of subbasins, as identified by the U.S. Geological Basin. The basin is primarily recharged from the natural runoff of the local mountains. The PWD service area overlays the Lancaster, Buttes, and Pearland groundwater subbasins. PWD has 12 wells in the Lancaster subbasin area, of which 10 of the wells currently operate. In the Pearland subbasin, there are 11 wells with 10 of the wells operable. PWD does not have wells in the Buttes subbasin. The wells located in the Lancaster subbasin have a total pumping capability of approximately 12,500 gallons per min (gpm), and the wells in the Pearland subbasin have a total pumping capability of approximately 3,500 gpm.

The San Andreas rift zone has two general groundwater-bearing areas. These areas generally lie east and west of the intersection of Pearblossom Highway and Barrel Springs Road. PWD has 4 wells in the San Andreas rift zone, 2 in the western area and 2 in the eastern area. Currently, 3 of these wells operate and pump approximately 150 AFY. Over the long term,

groundwater levels in sediments within the fault zone have remained relatively stable, suggesting that the groundwater-bearing sediments have not been overdrawn.

PWD's historical and current total groundwater pumped from the Antelope Valley Groundwater Basin is shown in Table 2-1. PWD's groundwater supplies accounted for 26-64 percent of PWD's water supplies between 2016 and 2020.

Table 2-1. Historical Pumping by PWD from the Antelope Valley Groundwater Basin (AF)

Water Resource	2016	2017	2018	2019	2020	Average
Antelope Valley	8,470	5,350	6,060	4,430	7,600	6,380

Source: 2020Urban Water Management Plan for Palmdale Water District

The groundwater extraction from the Antelope Valley Groundwater Basin has resulted in overdraft of the aquifer. In late 2015, as a result of the adjudication of groundwater rights for the basin, PWD received a groundwater production right of 2,770 AFY. PWD has seven years, until 2023, to ramp down pumping to comply with the new groundwater rights. PWD opted out of the seven year ramp down period and has been in full compliance with the judgment, pumping within its final adjudicated right since 2016. In addition, PWD is entitled to a share of the unused Federal Reserved Water Right Production which totals 7,600 AFY. PWD currently receives an average amount of 1,450AFY of the unused federal reserved right. PWD is also entitled to a pumping allocation for return flow credit of imported water used for the recharge at the Palmdale Regional Groundwater Recharge and Recovery Project (PRGRRP). The UWMP assumes that the return flow credit will provide 5,000 AFY of available supply through 2045 based on the Palmdale Regional PRGRRP planning report.

2.2 Surface Water Supply:

Littlerock Dam Reservoir was built in 1922 and is PWD's local surface water supply source. It is located in the hills southwest of the PWD service area and, following recent renovations to the reservoir, has a storage capacity of 3,500 AF, or 1.1 billion gallons of water. Littlerock Dam reservoir is fed by natural runoff from snow pack in the local San Gabriel Mountains and from rainfall. The Littlerock Dam Reservoir intercepts flows from Littlerock and Santiago Canyons Creeks. Runoff from the 65 square mile watershed in the Angeles National Forest to the reservoir is seasonal and varies widely from year to year. The water is transferred from Littlerock Dam Reservoir through an eight and a half mile long open ditch to Lake Palmdale.

Since 1922, PWD has shared water from the reservoir with Littlerock Creek Irrigation District (LCID). PWD and LCID jointly hold long-standing water rights to divert 5,500 AFY from Littlerock Creek flows. In 1992, during renegotiations of PWD's agreement, a plan to rehabilitate the existing dam was implemented. The rehabilitation of the entire project was completed by the end of 1995. The revised agreement gives PWD the authority to manage the reservoir. LCID granted ownership of its water rights to PWD for the fifty-year term of the agreement in lieu of contributing financial resources for the rehabilitation work. LCID is currently entitled to purchase from PWD, in any one calendar year, 1,000 AF of water or 25 percent of the yield from Littlerock Dam Reservoir, whichever is less.

PWD's historical and current production from Littlerock Dam Reservoir is shown in Table 2-2. Historically, PWD's local surface water production accounts for approximately 1 to 10- percent of its water supplies.

Table 2-2. Historical Surface Water Supplies (AF)

Water Resource	2016	2017	2018	2019	2020	Average
Littlerock Reservoir	-	970	3,140	3,130	4,540	2,950

Source: 2020 Urban Water Management Plan for Palmdale Water District

2.3 Imported Water Supply:

In the early 1960s, the Department of Water Resources (DWR) entered into individual SWP Water Supply Contracts with urban and agricultural public water supply agencies located throughout northern, central, and southern California for SWP water supplies. PWD is one of 29 water agencies (commonly referred to as "contractors") that have an SWP Water Supply Contract with DWR. Each SWP contractor's SWP Water Supply contract contains a "Table A", which lists the maximum amount of contract water supply, or "Table A water," an agency may request each year throughout the life of the contract. Currently, PWD's annual Table A Amount is 21,300 AFY.

PWD's recent SWP deliveries are shown in Table 2-3. Since 2011, imported water has accounted for approximately 13 to 66 percent of PWD's water supply.

Table 2-3. Historical Imported Water Supplies (AFY)

Water Resource	2016	2017	2018	2019	2020	Average
Imported SWP	10,516	13,858	10,210	12,066	7,016	10,733

Source: 2020 Urban Water Management Plan for Palmdale Water District

2.4 Transfers, Exchanges, and Groundwater Banking Programs:

Currently PWD has a long term lease agreement with Butte County for up to 10,000 AFY of their SWP Table A Amount. The amount available through this lease varies primarily on the final annual allotment from DWR to the State Water Contractors and can be roughly calculated by multiplying the final allotment percentage by 10,000 AFY. This lease has been amended and extended through 2031, at which time the agreement will be renegotiated. In the UWMP, the District assumes this supply will continue through the planning period, to 2045. Supplies from this agreement are accounted for in PWD planned supplies and are anticipated to be available in future years based on SWP Table A Amounts projected for PWD. Accordingly, 56.5% or 5,650 AFY is anticipated to be available in 2025 to 52 percent or
5,200 AFY past 2040

To meet projected water demands, PWD is also exploring other transfer and exchange opportunities as a new source. PWD will utilize a combination of various transfer and exchange opportunities, as necessary, to meet its projected water demands.

PWD recently completed and adopted its Strategic Water Plan (PWD 2018) where it identified additional needed surface water acquisitions and transfers as a component of its overall water supply strategy.

PWD does not operate a groundwater banking program but is actively pursuing this future water supply reliability option. PWD has completed the preliminary feasibility study of the Palmdale Regional Water Augmentation Project (PRWAP). This project entails the construction of new facilities to recharge and recover recycled water. The goal of the PRWAP is the beneficial use of 5,325 AFY of recycled water for either surface or groundwater augmentation. PWD is also currently exploring other banking opportunities within and outside the Antelope Valley.

2.5 Development of Brackish Water and/or Groundwater Desalination:

PWD has also considered the option of providing financial assistance to other SWP contractors to construct brackish desalination facilities in exchange for SWP supplies delivered via the East Branch of the Aqueduct.

2.6 Recycled Water:

PWD does not currently use recycled water but has taken proactive steps to include the use of non-potable water to its water supply portfolio. PWD developed a Recycled Water Facilities Plan in 2010 as part of the first non-potable reuse phase for the 2007 Antelope Valley Recycled Water Project Facilities. In 2012, the Palmdale Recycled Water Authority (PRWA) was established to manage recycled water generated and is a joint entity comprised of PWD and the City of Palmdale. The PRWA manages all aspects of recycled water use, including agreements to obtain recycled water from sanitation districts, planning for designing and construction supporting facilities, and financing these efforts.

Recycled water available for use within the PWD service area can be supplied from the LACSD Palmdale Water Reclamation Plant (WRP). Table 2-4 shows the influent and effluent flows at the Palmdale WRP in 2015. Currently, the tertiary-treated effluent is disposed of via agricultural irrigation of fodder crops on land leased by the LACSD from the City of Los Angeles World Airport.

Table 2-4. 2020 Wastewater Flows at Palmdale WRP (AF)

Palmdale WRP Flows	2020
Influent	12,140
Effluent	10,770

Source: 2020 Urban Water Management Plan for Palmdale Water District

Construction is still in progress at the Palmdale WRP and the Antelope Valley Backbone. Future phases of the Antelope Valley Backbone will distribute the recycled water from Palmdale WRP into the PWD service area. As shown above in Table 2-4, the Palmdale WRP produces about 10,770 AFY of Title 22 recycled water on average. For future recycled water supply

projections, it was assumed that recycled water production would grow linearly at the same rate as potable demands, which were estimated at approximately 0.9 percent per year on average for the period 2020 to 2040. Table 2-5 shows the total recycled water supply projection available to PWD.

Table 2-5. Effluent Flow Projections for Palmdale WRP (AFY)

	2020	2025	2030	2035	2040	2045
PWRP Effluent Flows	10,770	11,300	11,800	12,300	12,900	13,500
Total Recycled Water Available to PWD	10,770	11,300	11,800	12,300	12,900	13,500

Source: 2020 Urban Water Management Plan for Palmdale Water District

The Palmdale Regional Groundwater Recharge and Recovery Project will combine imported SWP raw water and recycled water to new recharge basins to replenish the Lancaster subbasin within the Antelope Valley Groundwater Basin. Recovery wells will yield groundwater that will be treated and delivered to PWD's service area.

3. URBAN WATER MANAGEMENT PLAN APPLICABILITY

Water Code Section 10910(c)(1) requires a determination of whether or not the project was included in PWD's most recently adopted Urban Water Management Plan (UWMP), adopted in 2020. The UWMP provides a description of the District's service area, demographics, multi-source water supply, water quality, and water demand management. The UWMP also includes historical and future water demand to serve the buildout of the District which includes the Quail Valley Project.

4. WATER SUPPLY RELIABILITY

PWD's supply reliability can be impacted by many factors, including changes in the availability of supplies due to climatic or infrastructure changes, prolonged drought, as well as the efficient use of those supplies in both average and dry periods. These factors can result in acute impacts (facility failures), short term impacts (SWP limitations), or long-term impacts to the reliability of its supplies.

The 2020 PWD UWMP assesses the reliability of the supplies available in an average year, a single dry year, and during multiple dry years.

- An average year (also called a normal year) is the average supply over a range of years and represents the median water supply available.
- The single-dry year is the year that represents the lowest water supply available.
- The multiple-dry year period is the lowest average water supply available for three or more consecutive dry years.

Tables 4-1 through 4-3 summarizes the water supply and demand projections under average, single and multiple-dry year scenarios.

Table 4-1. Comparison of Supplies and Demands for an Average Year (AF)

		2025	2030	2035	2040	2045
Existing Supplies						
	Groundwater	4,220	2,770	2,770	2,770	2,770
	Groundwater Return Flow Credit	5,000	5,000	5,000	5,000	5,000
	Groundwater or Surface Water Augmentation	5,325	5,325	5,325	5,325	5,325
	Local Surface Water	4,000	4,000	4,000	4,000	4,000
	Imported SWP Water	12,030	11,720	11,400	11,080	11,080
	Butte Transfer Agreement	5,650	5,500	5,350	5,200	5,200
	Recycled Water	500	1,000	1,500	2,000	2,000
	Total Supplies	**36,725**	**35,315**	**35,345**	**35,375**	**35,375**
Demands						
	Potable Water Demands	19,720	20,310	21,480	22,780	24,250
	Recycled Water Demands	500	1,000	1,500	2,000	2,000
	Total Demands	**20,220**	**21,310**	**22,980**	**24,780**	**26,250**
	Difference (Supply-Demand)	**16,505**	**14,005**	**12,365**	**10,595**	**9,125**

Source: 2020 Urban Water Management Plan for Palmdale Water District

Table 4-2. Comparison of Supplies and Demands for a Single Dry Year (AF)

		2025	2030	2035	2040	2045
Existing Supplies						
	Groundwater	4,220	2,770	2,770	2,770	2,770
	Groundwater Return Flow Credit	5,000	5,000	5,000	5,000	5,000
	Groundwater or Surface Water Augmentation	5,325	5,325	5,325	5,325	5,325
	Local Surface Water	4,000	4,000	4,000	4,000	4,000
	Imported SWP Water	1,490	1,705	1,915	2,130	2,130
	Butte Transfer Agreement	700	800	900	1000	1000
	Recycled Water	500	1,000	1,500	2,000	2,000
	Total Supplies	**21,235**	**20,600**	**21,410**	**22,225**	**22,225**
Demands						
	Potable Water Demands	19,720	20,310	21,480	22,780	24,250
	Recycled Water Demands	500	1,000	1,500	2,000	2,000
	Total Demands	**20,220**	**21,310**	**22,980**	**24,780**	**26,250**
	Difference (Supply-Demand)	**1015**	**-710**	**-1,570**	**-2,555**	**-4,025**

Source: 2020 Urban Water Management Plan for Palmdale Water District

Table 4-3. Comparison of Supplies and Demands for Multiple-Dry Year (AF)

		2025	2030	2035	2040	2045
Existing Supplies						
	Groundwater	4,220	2,770	2,770	2,770	2,770
	Groundwater Return Flow Credit	5,000	5,000	5,000	5,000	5,000
	Groundwater or Surface Water Augmentation	5,325	5,325	5,325	5,325	5,325
	Local Surface Water	4,000	4,000	4,000	4,000	4,000
	Imported SWP Water	6,180	5,645	5,110	4,470	4,470
	Butte Transfer Agreement	2,900	2,650	2,400	2,100	2,100
	Recycled Water	500	1,00	1,500	2,000	2,000
	Total Supplies	**28,125**	**26,390**	**26,105**	**25,665**	**25,665**
Demands						
	Potable Water Demands	19,720	20,310	21,480	22,780	24,250
	Recycled Water Demands	500	1,000	1,500	2,000	2,000
	Total Demands	**20,220**	**21,310**	**22,980**	**24,780**	**26,250**
	Difference (Supply-Demand)	**7,905**	**5,080**	**3,125**	**885**	**-585**

Source: 2020 Urban Water Management Plan for Palmdale Water District

These tables show that PWD will have adequate water supply to meet the demands during an average year up to 2045. However, during the single-dry year scenarios, demands are predicted to exceed the existing water supplies in 2030. During multiple-dry year scenarios, demands are predicted to exceed the existing water supplies in 2045. PWD is currently in the process of developing additional supplies to augment these deficiencies. The Palmdale Regional Water Augmentation project is anticipated to provide 5,325 AFY for surface water augmentation or groundwater injection. In addition, PWD has identified numerous short and long term transfers and exchange opportunities which would provide additional supplies to help overcome supply shortages. Therefore, as stated in the 2020 UWMP, it is anticipated that existing supplies in combination with identified future and potential water supply opportunities will enable PWD to meet all future water demands which includes the Quail Valley development.

5. WATER USAGE

PWD currently serves approximately 26,869 active connections, the majority of which are residential (96 percent). Commercial connections account for approximately 2.5 percent, and landscape irrigation connections account for about 1 percent. PWD's projected water deliveries were estimated considering various factors, including historical and current demands, anticipated water conservation bounce-back, and population projections. The complete breakdown by land use type of PWD's projected water deliveries can be found in Table 6-1 below.

Table 6-1. Projected Water Deliveries (AFY)

Water Use Sector	2025	2030	2035	2040	2045
Single Family	11,460	11,730	12,310	12,970	13,660
Multi-Family	1,450	1,480	1,560	1,640	1,730
Commercial	1,170	1,240	1,390	1,550	1,730
Industrial	1,350	1,130	1,300	1,490	1,690
Institutional/ Governmental	-	-	-	-	-
Landscape	1,050	1,130	1,300	1,490	1,690
Sales to Other Agencies	1,300	1,300	1,300	1,300	1,300
Non-Revenue Water	1,900	2,000	2,100	2,200	2,400
Other	40	40	40	40	40
Total	**19,720**	**20,310**	**21,480**	**22,780**	**24,250**

Source: 2020 Urban Water Management Plan for Palmdale Water District

5.1 Water Conservation Program:

In response to the continued drought conditions in California, Senate Bill X7-7 was passed requiring water agencies to reduce per capita water use by 20 percent by the year 2020. PWD had a GPCD of 165 in 2020, which means PWD has exceeded the reductions required by the SBX7-7 2015 Interim Target and 202 compliance Target. PWD plans to maintain an efficient GPCD by continuing implementation of demand management measures and water shortage contingency planning.

PWD is currently updating its Water Shortage Contingency Plan (WSCP) contained within the 2015 UWMP per the new requirements set for by the California Water Commission (CWC). The WSCP deals with water shortage conditions that occur due to drought, earthquake, infrastructure failure, or other emergency. The Plan provides the foundation for a staged response to worsening water shortage conditions. There are five stages to PWD's WSCP. Each stage provides different levels of response for a water shortage event ranging from a goal reduction of 15 percent to up to a 50 percent or greater reduction. Each stage may be triggered by a declaration from federal or state authorities, or PWD to address events that result in a water shortage.

In terms of water supply reliability the District is one of the signatories to the Memorandum of Understanding (MOU) Regarding Urban Water Conservation and has actively pursued the implementation of the water efficiency best management practices (BMPs) prescribed in the MOU. The MOU was a negotiated agreement between water purveyors statewide and environmental organizations on how best to utilize the State's water resources by incorporating conservation into their water management practices. The BMPs have been developed over the years by water purveyors, environmental groups, and industry stakeholders. They represent the best available water conservation practices based on research and experience and include:

- Water conservation pricing and rate structures,
- Technical assistance for water customers,

- Incentives for indoor and outdoor water saving technologies,
- Public information and outreach, and
- Water audits.

6. ENTITLEMENTS/REGULATORY APPROVALS

Water Code Section 10910(d) states that:

(1) The assessment required by this section shall include an identification of any existing water supply entitlements, water rights, or water service contracts relevant to the identified water supply for the proposed project and a description of the quantities of water received in prior years by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), under the existing water supply entitlements, water rights, or water service contracts.

(2) An identification of existing water supply entitlements, water rights, or water service contracts held by the public water system, or the city or county if either is required to comply with this part pursuant to subdivisions (b), shall be demonstrated by providing information related to all the following:

(A) Written contracts or other proof of entitlement to an identified water supply.
(B) Copies of a capital outlay program for financing the delivery of a water supply that has been adopted by the public water system.
(C) Federal, state, and local permits for construction of necessary infrastructure associated with delivering the water supply
(D) Any necessary regulatory approvals that are required in order to be able to convey or deliver the water supply.

PWD's entitlements include imported water from SWP, Groundwater from the Antelope Valley Groundwater Basin and future recycled water. A description of each of these water supplies is above in Section 2.

7. QUAIL VALLEY PROJECT

The Quail Valley site is proposed to be developed into single-family residential lots, rural lots, and private/public lots. As mentioned above in the Water Usage section, the UWMP based their projected water demands on future projected population with Quail Valley's population included. The Quail Valley development is estimated to include a total of 730 units. There are also approximately 130 acres of open space and common amenity areas within the development that will utilize water for irrigation. A recreation center is also located within the project that includes several facilities that will use water, including a pool area. Figure 7-1 shows the Quail Valley lot layout.

Part of the project is within PWD and the remaining portion is located in AVEK's boundary. PWD will service the project, but the water for the project will be supplied by a combination of the two. See Appendix C for a project boundary location map.

Figure 7-1. Quail Valley Lot Layout

7.1 Water Use Calculations:

The total calculated water use for the Quail Valley project is 614.8 AFY, as shown in Table 7-1 and Table 7-2. These calculations are based on an average indoor residential use of 55 GPCD for the single-family residential and rural lots. Based on the most current population data available, the City of Palmdale has an average of 3.65 people per dwelling unit.[1] This figure was

[1] Source: http://www.cityofpalmdale.org/Your-City-Hall/Demographics, Population = 167,398 and Residential Units = 45,814

used to determine the proposed indoor water use for the project. The outdoor irrigation water use was calculated using drought tolerant plants, and a small irrigated turf area as shown in Appendix A. There are also public/private lots within the development that consist of the HOA slopes, Common Amenity Areas, public rights-of-way along Avenue S and the Recreation Center. Their water demand calculations are provided in Appendix B. The demands are broken down by each agency that will provide the water for the project.

Table 7-1. Quail Valley Water Demand Within PWD Limit – Project Specific

AREAS	Units	Persons Per Unit[1]	Total Area (acres)	Water Use Factor (GPCD)	Irrigation Demand (gal/year /edu)[2]	Irrigation Demand (gal/year)	Indoor Domestic Demand (gal/year)	Total (gal/year)	Total (afy)
Single Family Residences	270	3.65		55	62,285	16,816,950	19,783,913	36,600,863	112.3
Rural	54	3.65		55	327,814	17,701,956	3,956,783	21,658,739	66.5
Public/Private:[3]									0
HOA Slopes-Landscaping			67.76			17,261,684		17,261,684	53
Common Amenity Area-Landscaping			7.20			4,320,250		4,320,250	13
Recreation Center			2.36			1,600,033	279,360	1,879,393	6
						Subtotals		**81,720,929**	**250.8**
						PWD System Water Losses[4]		**10%**	**25**
								Total (afy)	**275.8**

[1] Source: http://www.cityofpalmdale.org/Your-City-Hall/Demographics, Population = 167,398 and Residential Units = 45,814
[2] See Appendix A
[3] See Appendix B
[4] Source: PWD 2017 Water Audit

Table 7-2. Quail Valley Water Demand Within AVEK Limit – Project Specific

AREAS	Units	Persons Per Unit[1]	Total Area (acres)	Water Use Factor (GPCD)	Irrigation Demand (gal/year /edu)[2]	Irrigation Demand (gal/year)	Indoor Domestic Demand (gal/year)	Total (gal/year)	Total (afy)
Single Family Residences	406	3.65		55	62,285	25,287,710	29,749,143	55,036,853	169
Rural	0	3.65		55	327,814	0	0	0	0
Public/Private:[3]									
HOA Slopes-Landscaping			36.21			32,304,846		32,304,846	99
Common Amenity Area-Landscaping			15.60			13,005,955		13,005,955	40
Recreation Center			0.00					0	0
						Subtotals		100,347,654	308
						PWD System Water Losses[4]		10%	31
								Total (afy)	**339**

[1] Source: http://www.cityofpalmdale.org/Your-City-Hall/Demographics, Population = 167,398 and Residential Units = 45,814
[2] See Appendix A
[3] See Appendix B
[4] Source: PWD 2017 Water Audit

7.2 Water Allocated for Future Growth:

The 2020 UWMP for Palmdale Water District accounted for future growth of the area, and those projections were included in that planning document. Using the number of proposed homes and the density factor noted above, the development is anticipated to have a population of approximately 2,665 people. Using the 2020 goal of 185 GPCD from the UWMP and the population of the development, the amount of domestic water projected for Quail Valley is calculated to be 552 AFY (493,025 GPD). The amount of public/private areas within the development is approximately 130 acres. Using the water use factor of 2.6 acre-feet per acre from the 2010 Integrated Regional Urban Water Management Plan for the Antelope Valley, the water use for these areas is projected to be approximately 336 AFY. Tables 7.3 and 7.4 below outline the water use for the project using the information provided in the 2020 UWMP and the 2010 IRUWMP for the Antelope Valley.

Table 7-3. Quail Valley Water Demand Within PWD Limit– Using UWMP

AREAS	Units	Persons Per Unit[1]	Total Area (acres)	UWMP use factor (gpcd)[2]	Total Demand (gal/year)	IRUWMP landscape use factor (ac-ft/ac)[3]	Total Demand (afy)
Single Family Residences	270	3.65		185	66,545,888		204
Rural	54	3.65		185	13,309,178		41
Public/Private:							
HOA Slopes-Landscaping			67.76			2.6	176.2
Common Amenity Area-Landscaping			7.20			2.6	18.7
Recreation Center			2.36			2.6	6.1
						Total (acre-ft/year)	**446**

[1] Source: http://www.cityofpalmdale.org/Your-City-Hall/Demographics, Population = 167,398 and Residential Units = 45,814
[2] 2020 UWMP – PWD [3] 2010 IRUWMPAV – LACWD

Table 7-4. Quail Valley Water Demand Within AVEK Limit– Using UWMP

AREAS	Units	Persons Per Unit[1]	Total Area (acres)	UWMP use factor (gpcd)[2]	Total Demand (gal/year)	IRUWMP landscape use factor (ac-ft/ac)[3]	Total Demand (afy)
Single Family Residences	406	3.65		185	100,065,298		307
Rural	0	3.65		185	0		0
Public/Private:							
HOA Slopes-Landscaping			36.21			2.6	94.1
Common Amenity Area-Landscaping			15.60			2.6	40.6
Recreation Center			0.00			2.6	0.0
						Total (acre-feet/year):	**442**

[1] Source: http://www.cityofpalmdale.org/Your-City-Hall/Demographics, Population = 160,020 and Residential Units = 52,115
[2] 2020 UWMP – PWD [3] 2010 IRUWMPAV - LACWD

Using the planned number above, the project's calculated water demand of 614.8 AFY equates to approximately 69 percent of the 888 AFY planned water demand for the development using the UWMP.

CONCLUSION

Based on the information provided herein, PWD will have sufficient water supply available to serve the Quail Valley project. The water demand for the Quail Valley project based on projected growth is included in the 2020 Urban Water Management Plan projections for PWD. The water allotment based on the use factors in the UWMP show that the water demand for Quail Valley would be approximately 888 AF/year. The calculated project water demand for the Quail Valley project based on the current layout is 614.8 AF/year. This project's water usage is approximately 69 percent of the UWMP planned demand for the development, and is more in line with the actual GPCD use that is being experienced today. Based on these water demand projections, there is a sufficient supply of water to meet the project's needs.

REFERENCES

2020 Urban Water Management Plan for Palmdale Water District, Adopted June 2021; Prepared by Kennedy/Jenks Consultants.

Memorandum of Understanding Regarding Urban Water Conservation in California; Adopted September 1991; Amended January 4, 2016; California Urban Water Conservation Council.

2010 Integrated Regional Urban Water Management Plan for the Antelope Valley, June 2011; LA County, Department of Public Works, Waterworks District No. 40; Quartz Hill Water District.

TECHNICAL APPENDICES

The following technical appendices are included:

- Appendix A: Preliminary Residential Landscape Water-Use Estimate
- Appendix B: Preliminary Recreation Center and Irrigation Water-Use Estimate
- Appendix C: District Boundary Location Map

APPENDIX A: PRELIMINARY RESIDENTIAL LANDSCAPE WATER-USE ESTIMATE

RESIDENTIAL EXTERIOR LANDSCAPING

SINGLE-FAMILY	Total Landscape Area	1,900 sf		Evapotranspiration	68.6 in/yr		
Landscape Area	**Landscape Description**	**Percent of Total Area**	**Proposed Landscape Area**	**Irrigated Area**	**Plant Type**	**Irrigation Efficiency**	**Annual Totals**
		%	Sq Ft	Sq Ft	(KL)	(IE)	Inches / Gallons
Turfgrass	Warm Season Turf	30%	570.00	570.00	0.60	0.60	69 / 24,372
Groundcover	Various Shrubs & Groundcover	70%	1330.00	1330.00	0.50	0.75	46 / 37,912
Totals				**1900.0**			**62,285**
						Annual Acre-feet per DU	**0.191**

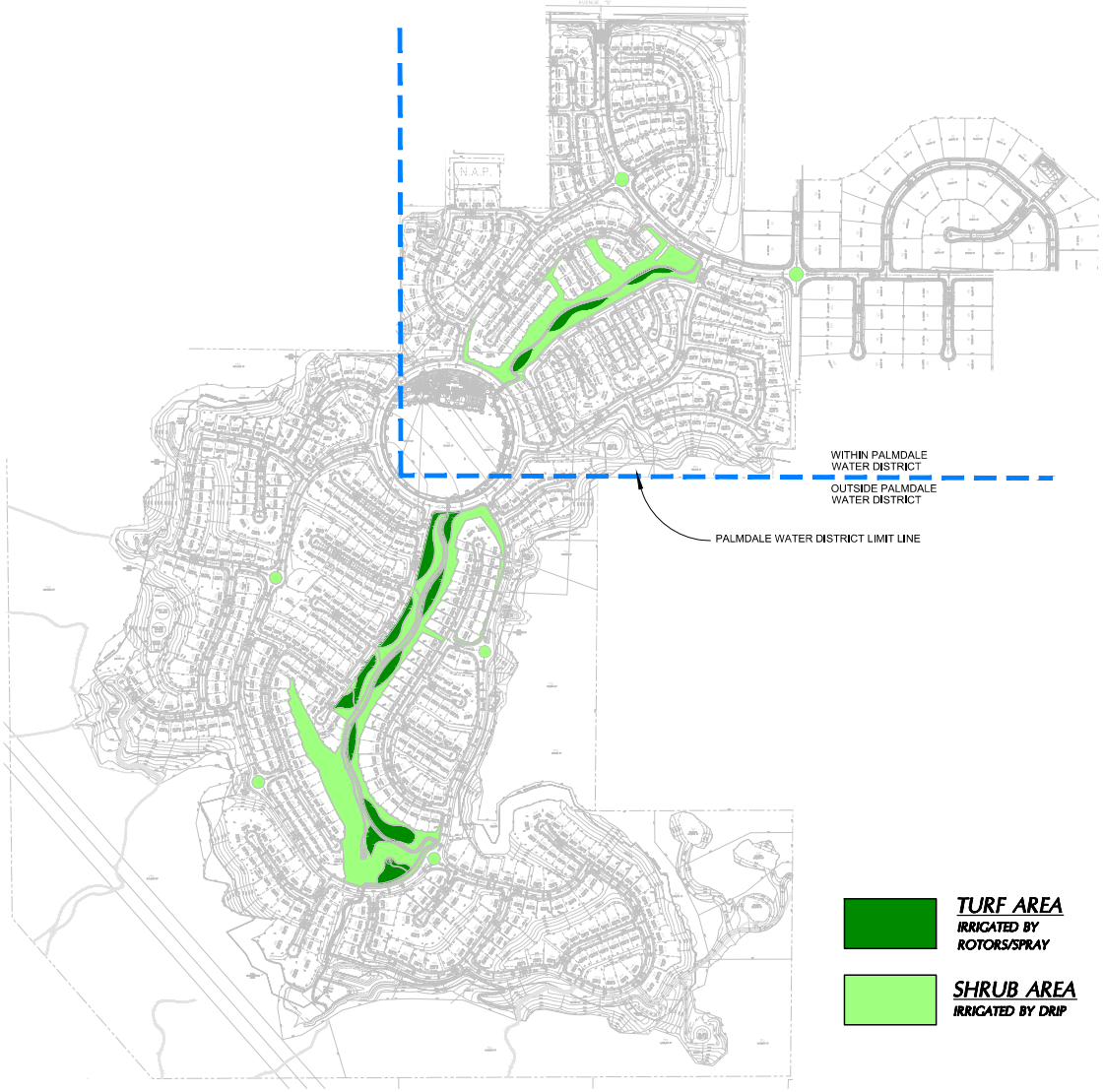
RURAL	Total Landscape Area	10,000 sf		Evapotranspiration	68.6 in/yr		
Landscape Area	**Landscape Description**	**Percent of Total Area**	**Proposed Landscape Area**	**Irrigated Area**	**Plant Type**	**Irrigation Efficiency**	**Annual Totals**
		%	Sq Ft	Sq Ft	(KL)	(IE)	Inches / Gallons
Turfgrass	Warm Season Turf	30%	3000.00	3000.00	0.60	0.60	69 / 128,275
Groundcover	Various Shrubs & Groundcover	70%	7000.00	7000.00	0.50	0.75	46 / 199,539
Totals				**10000.0**			**327,814**
						Annual Acre-feet per DU	**1.006**

Assumptions

Turf Quality	0.6	= Fair to Good
Irrigation Efficiency	0.75	= Drip, Sprinkler: Good
Evapotranspiration	68.6	= ET less effective rainfall (30%)

Source: California Irrigation management Information System (CIMIS)

APPENDIX B: PRELIMINARY RECREATION CENTER AND IRRIGATION WATER-USE ESTIMATE



WATER USE EXHIBIT - COMMON AMENITY AREAS - 23 ACRES

QUAIL VALLEY

PALMDALE, CA SCALE: 1" = 800'

California Water Efficient Landscape Worksheet

COMMON AMENITY AREAS -WITHIN PALMDALE WATER DISTRICT

Reference Evapotranspiration (ET_o)		66.2	Project Type		Residential		0.55
Hydrozone # / Planting Description[a]	Plant Factor (PF)	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF/IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[d]
Regular Landscape Areas							
Turf Spray	0.8	Overhead	0.75	1.07	33,953	36,217	1,486,471
Shrub Drip (Low Water)	0.2	Drip	0.81	0.25	279,622	69,042	2,833,779
				Totals	313,575	105,259	4,320,250
Special Landscape Areas							
				1		0	0
				1		0	0
				1		0	0
				1		0	0
				Totals	0	0	0
						ETWU Total	**4,320,250**
						Maximum Allowed Water Allowance (MAWA)[e]	**7,078,705**

ETAF Calculations

Regular Landscape Areas	
Total ETAF x Area	105,259
Total Area	313,575
Average ETAF	0.34

All Landscape Areas	
Total ETAF x Area	105,259
Total Area	313,575
Average ETAF	0.34

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

SUMMERS/MURPHY & PARTNERS INC.
LANDSCAPE ARCHITECTS

California Water Efficient Landscape Worksheet

COMMON AMENITY AREAS - OUTSIDE PALMDALE WATER DISTRICT

Reference Evapotranspiration (ET_o)		66.2	Project Type		Residential		0.55
Hydrozone # / Planting Description[a]	Plant Factor (PF)	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF/IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[d]
Regular Landscape Areas							
Turf Spray	0.8	Overhead	0.75	1.07	181,948	194,078	7,965,732
Shrub Drip (Low Water)	0.2	Drip	0.81	0.25	497,342	122,800	5,040,223
				Totals	679,290	316,878	13,005,955
Special Landscape Areas							
				1		0	0
				1		0	0
				1		0	0
				1		0	0
				Totals	0	0	0
						ETWU Total	**13,005,955**
						Maximum Allowed Water Allowance (MAWA)[e]	**15,334,428**

ETAF Calculations

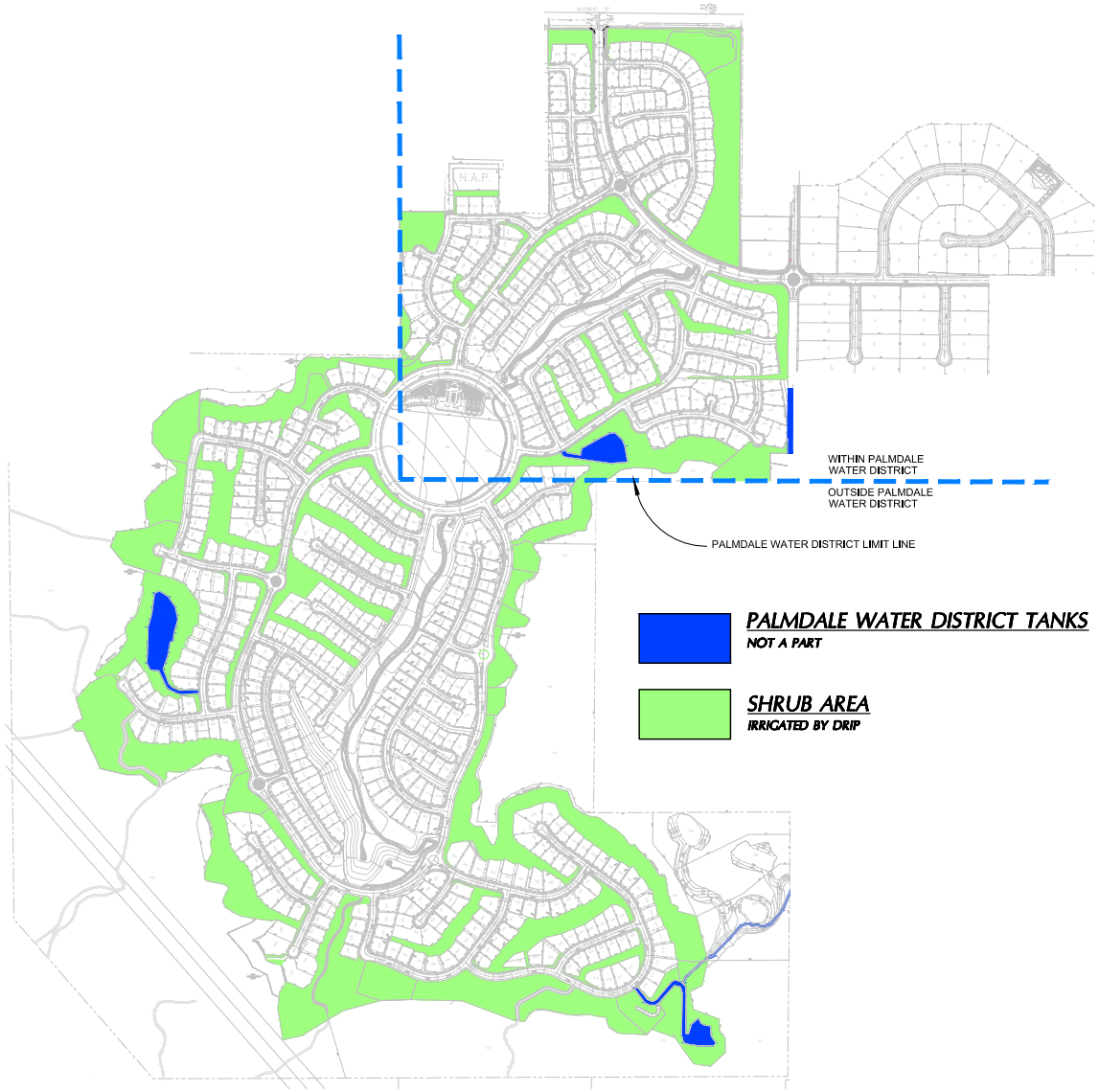
Regular Landscape Areas	
Total ETAF x Area	316,878
Total Area	679,290
Average ETAF	0.47

All Landscape Areas	
Total ETAF x Area	316,878
Total Area	679,290
Average ETAF	0.47

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

SUMMERS/MURPHY & PARTNERS INC.
LANDSCAPE ARCHITECTS

02-12-19



WATER USE EXHIBIT - HOA SLOPES - 104 ACRES

QUAIL VALLEY

PALMDALE, CA SCALE: 1" = 800'

California Water Efficient Landscape Worksheet

HOA SLOPES - WITHIN PALMDALE WATER DISTRICT

Reference Evapotranspiration (ET_o)		66.2	Project Type		Residential		0.55
Hydrozone # / Planting Description[a]	Plant Factor (PF)	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF/IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[d]
Regular Landscape Areas							
Turf Spray	0.8	Overhead	0.75	1.07	0	0	0
Shrub MPR (Low Water)	0.2	Overhead	0.75	0.27	1,577,120	420,565	17,261,684
				Totals	1,577,120	420,565	17,261,684
Special Landscape Areas							
				1		0	0
				1		0	0
				1		0	0
				1		0	0
				Totals	0	0	0
						ETWU Total	**17,261,684**
						Maximum Allowed Water Allowance (MAWA)[e]	**35,602,222**

ETAF Calculations

Regular Landscape Areas	
Total ETAF x Area	420,565
Total Area	1,577,120
Average ETAF	0.27

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

All Landscape Areas	
Total ETAF x Area	420,565
Total Area	1,577,120
Average ETAF	0.27

SUMMERS/MURPHY & PARTNERS INC.
LANDSCAPE ARCHITECTS

California Water Efficient Landscape Worksheet

HOA SLOPES - OUTSIDE PALMDALE WATER DISTRICT

Reference Evapotranspiration (ET_o)		66.2	Project Type		Residential		0.55
Hydrozone # / Planting Description[a]	Plant Factor (PF)	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF/IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[d]
Regular Landscape Areas							
Turf Spray	0.8	Overhead	0.75	1.07	0	0	0
Shrub MPR (Low Water)	0.2	Overhead	0.75	0.27	2,951,544	787,078	32,304,846
				Totals	2,951,544	787,078	32,304,846
Special Landscape Areas							
				1		0	0
				1		0	0
				1		0	0
				1		0	0
				Totals	0	0	0
						ETWU Total	**32,304,846**
						Maximum Allowed Water Allowance (MAWA)[e]	**66,628,745**

ETAF Calculations

Regular Landscape Areas	
Total ETAF x Area	787,078
Total Area	2,951,544
Average ETAF	0.27

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

All Landscape Areas	
Total ETAF x Area	787,078
Total Area	2,951,544
Average ETAF	0.27

SUMMERS/MURPHY & PARTNERS INC.
LANDSCAPE ARCHITECTS

02-12-19

Potable Water Usage for Quail Valley Rec. Center

Rec Center Potable Water Use:

Pool

36’ x 73’ will lose an average of 600 gallons per day from evap./splashing = 600 Gal./Day

Rec. Facilities Building: 1

Kitchen Sink 1 Total - (Daily Uses – 50) x (GPM – 2.5 x .2 (12 Sec. Use) = 25 Gal./Day

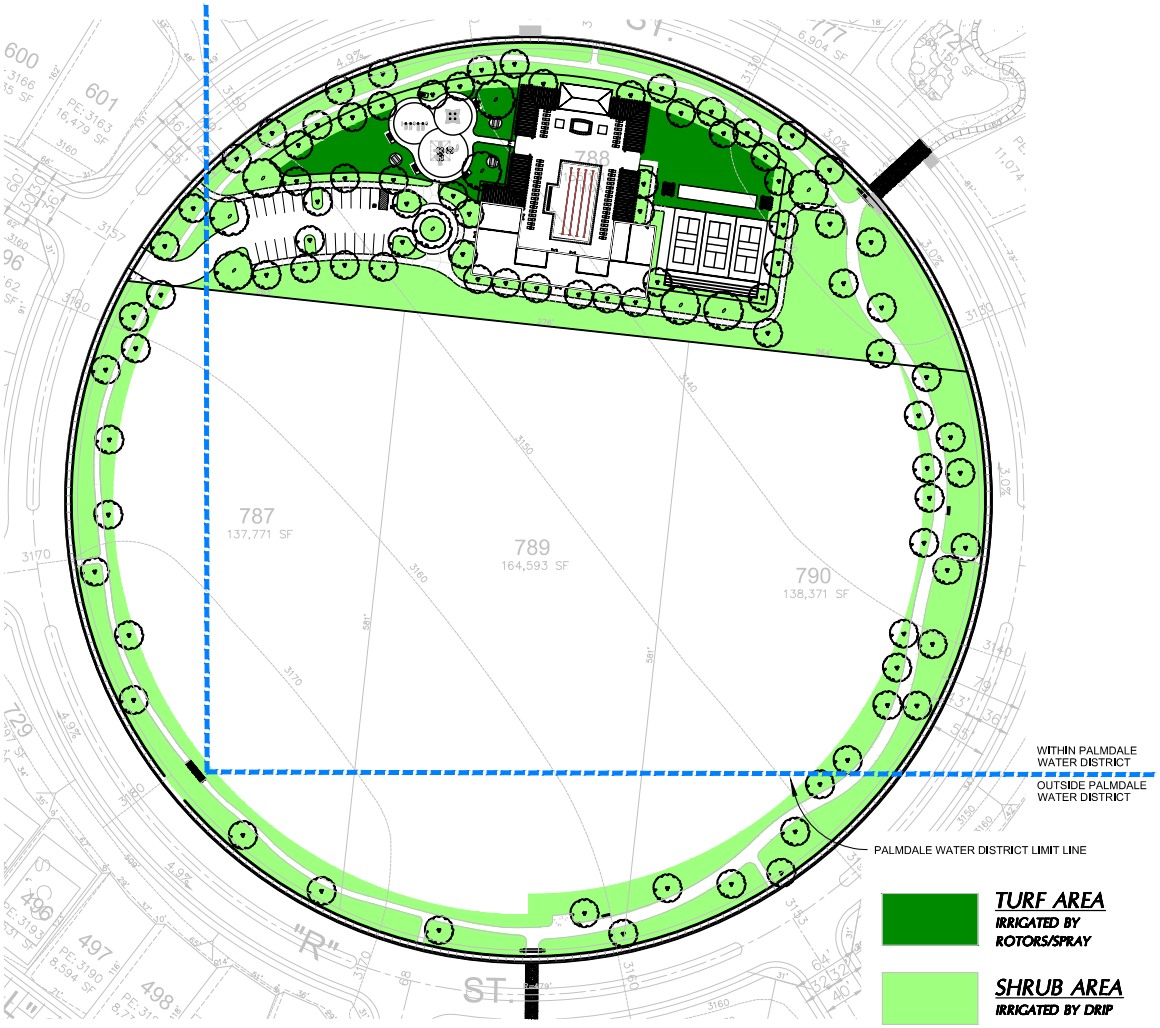
Restrooms/Showers

Ultra Low Flow Water Toilet (M) 1 x (Daily Uses – 20) x (GPF - .8) = 24 Gal./Day
Ultra Low Flow Water Toilet (W) 2 x (Daily Uses – 50) x (GPF - .8) = 48 Gal./Day
Waterless Urinal (Mens) – 2 Total 1 x (Daily Uses – 30) x (GPF - 0) = 0 Gal./Day
Lavatory – 2 Total x (Daily Uses – 25) x (GPM – 2.5 x .2 (12 Sec. Use) = 25 Gal./Day
Drinking Fountains – 2 Total x (Daily Uses – 150) x (GPM – 1 x .08(5 Sec. Use) 24 Gal./Day
Showers – 4 Total x (Daily Uses – 20) x (GPM – 2.5 x 5(300 Sec. Use) = 1000 Gal./Day

Total Daily Domestic Water Usage when in use = 1,746 Gal./Day

Estimated Days of Use Per Year = 160

Total Yearly Domestic Water Usage = 279,360 Gal./Year



California Water Efficient Landscape Worksheet							
RECREATION CENTER - WITHIN PALMDALE WATER DISCTRICT							
Reference Evapotranspiration (ET_o)		66.2	Project Type		Residential		0.55
Hydrozone # / Planting Description[a]	Plant Factor (PF)	Irrigation Method[b]	Irrigation Efficiency (IE)[c]	ETAF (PF/IE)	Landscape Area (Sq. Ft.)	ETAF x Area	Estimated Total Water Use (ETWU)[d]
Regular Landscape Areas							
Turf Spray	0.8	Overhead	0.75	1.07	16,533	17,635	723,819
Shrub Drip (Low Water)	0.2	Drip	0.81	0.25	86,460	21,348	876,213
				Totals	102,993	38,983	1,600,033
Special Landscape Areas							
				1		0	0
				1		0	0
				1		0	0
				1		0	0
				Totals	0	0	0
						ETWU Total	**1,600,033**
						Maximum Allowed Water Allowance (MAWA)[e]	**2,324,985**

ETAF Calculations

Regular Landscape Areas	
Total ETAF x Area	38,983
Total Area	102,993
Average ETAF	0.38

All Landscape Areas	
Total ETAF x Area	38,983
Total Area	102,993
Average ETAF	0.38

Average ETAF for Regular Landscape Areas must be 0.55 or below for residential areas, and 0.45 or below for non-residential areas.

SUMMERS/MURPHY & PARTNERS INC.
LANDSCAPE ARCHITECTS

NOTE:

ALL LANDSCAPE IRRIGATION WATER AREAS FOR THE REC CENTER WILL BE INCLUDED AS PART OF THE PALMDALE WATER DISTRICT AND NOT SEPARATED FROM AREAS OCCURRING OUTSIDE THE PALMDALE WATER DISTRICT LIMIT LINE.

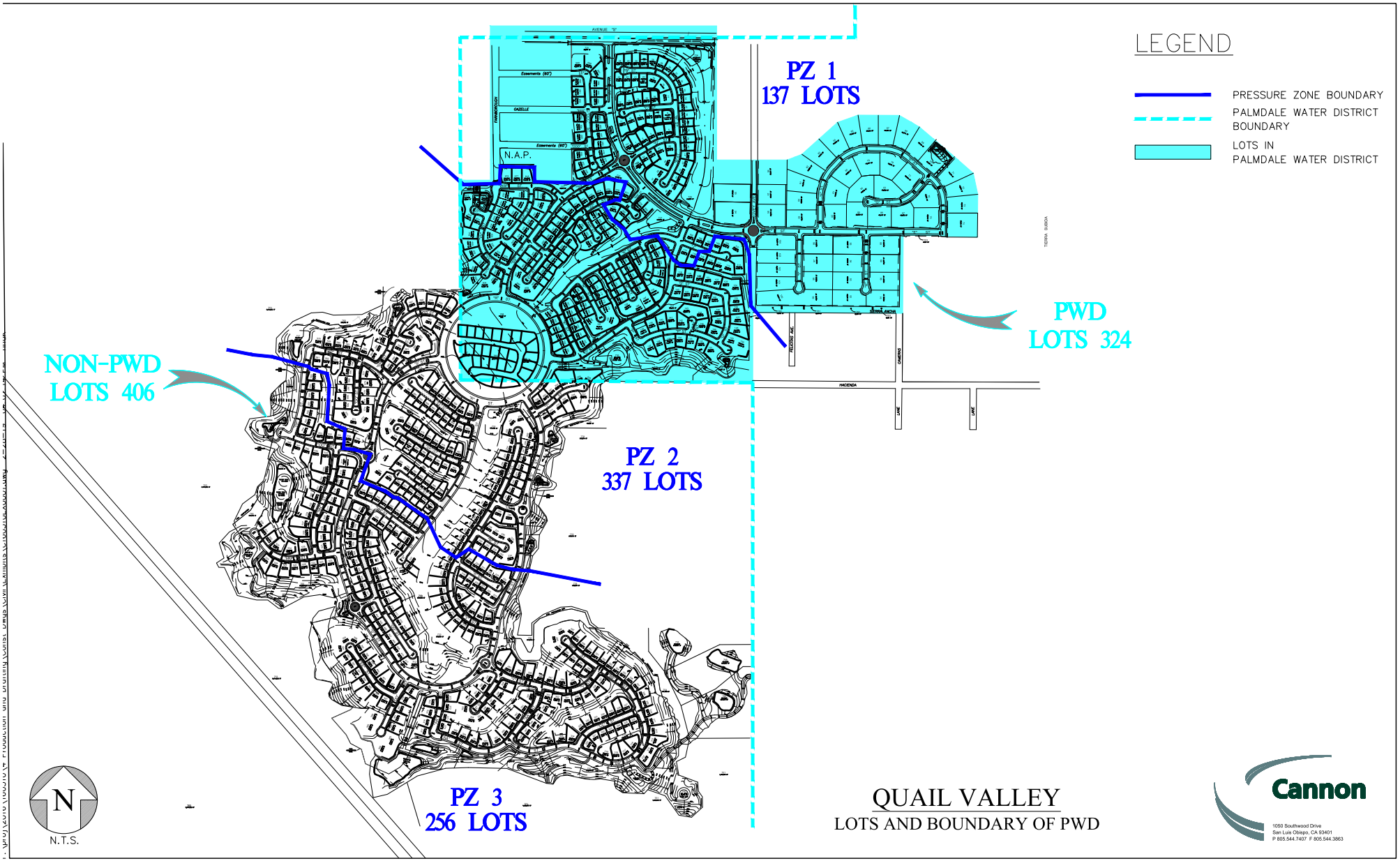
WATER USE EXHIBIT - RECREATION CENTER - 2.36 ACRES

QUAIL VALLEY

PALMDALE, CA SCALE: 1" = 120'

02-12-19

APPENDIX C: DISTRICT BOUNDARY LOCATION MAP



QUAIL VALLEY

LOTS AND BOUNDARY OF PWD

Cannon
1050 Southwood Drive
San Luis Obispo, CA 93401
P 805.544.7407 F 805.544.3863

Term Sheet for Retail Water Service and Imported Water Supply for the Proposed Quail Valley Planned Development

Parties and Purpose

This Term Sheet is made by and between the Antelope Valley-East Kern Water Agency ("AVEK") and Palmdale Water District ("PWD"). The purpose of this Term Sheet is to set forth the terms by which PWD will provide retail water service to the proposed Project (defined below).

Project Description

The proposed Quail Valley Planned Development ("Project") is located partially within the PWD boundary and partially within the AVEK State Water Supply Contract service area boundary. Based on information provided by the Developer, 324 lots are within PWD's boundary and 406 lots are within AVEK's boundary.

Boundaries and Property Taxes

PWD and AVEK will retain their respective State Water Supply Contract service area boundaries as recognized by each of their Water Supply Contracts with the State of California, Department of Water Resources, and both agencies will retain their proportionate share of property taxes associated with said boundaries.

Retail Water Service

PWD has expressed an interest in providing retail water service to all 730 lots within the Project. PWD has included the proposed Project water demands in its current Urban Water Management Plan and through a project specific Water Supply Assessment (WSA). PWD will maintain, own, and operate the pipelines, boosters, reservoirs and all appurtenances including infrastructures upgrades and upsizing required to provide retail water service to the entire Project and therefore assess the Project developer its "Infrastructure" component of the capital improvement fees on the entire Project.

Water Supply

The WSA prepared by PWD estimates a Project water demand of 339 Acre-Feet per Year within the AVEK service area boundary. PWD and AVEK will coordinate to establish an imported water supply exchange agreement to ensure that the imported water supply provided to meet the water demands of the Project complies with their existing State Water Supply Contracts.

PWD and AVEK will each assess the Project developer their respective water supply capacity fees for those portions of the Project water demands within each of their respective service area boundaries. In order to fund the necessary local water supply projects not captured by these fees, PWD will also assess the Project developer its portion of the "local water supply" component of their water supply capacity fee for the Project water demands within the AVEK service area boundary.

Acceptance of Terms

Parties acceptance of the above terms and conditions:

Antelope Valley-East Kern Water Agency	Palmdale Water District
_____	_____
Signature	Signature
_____	_____
Title	Title
_____	_____
Date	Date

BOARD MEMORANDUM

DATE: January 27, 2025

TO: **BOARD OF DIRECTORS**

FROM: Mrs. Tara Rosati, Customer Care Supervisor
Mr. Dennis J. Hoffmeyer, Finance Manager/CFO

VIA: Mr. Dennis D. LaMoreaux, General Manager

RE: ***CONSIDERATION AND POSSIBLE ACTION ON APPROVAL OF INTERIM INCREASE TO THE RATE ASSISTANCE PROGRAM. (NO BUDGET IMPACT – CUSTOMER CARE SUPERVISOR ROSATI/FINANCE MANAGER HOFFMEYER)***

Recommendation:

Staff recommends that the Board approve an interim increase in funding for the Rate Assistance Program (RAP) from $170,000 to $210,000. This adjustment will restore program capacity, increasing the number of available slots from 565 to 700, ensuring critical support for eligible customers.

Alternative Options:

The alternative is to leave the funding at $170,000.

Impact of Taking No Action:

The RAP, designed to assist seniors, veterans, and low-income customers (with priority given to seniors and veterans), is fully funded through leases of District property for cell towers and the Palmdale Fin & Feather Club lease.

However, RAP funds have been fully exhausted, leaving no assistance slots available as of January 21. Many customers who received support in 2024 have yet to receive their first bill under the updated rates. Without additional funding, eligible individuals will not have access to the Program moving forward.

Background:

The District's RAP exemplifies its commitment to supporting the community's most vulnerable members—seniors, veterans, and low-income residents. By prioritizing these groups, the District ensures that those most in need receive the help they deserve. This vital Program is funded through the revenue generated from the leasing of District property for cell towers and the Palmdale Fin & Feather Club lease.

Currently, the RAP receives $170,000 annually from non-operating revenues, which has historically sustained the program's operations. However, as demands grow and financial realities shift, additional funding is both necessary and achievable. The District recently resolved a key funding challenge when one cell tower lease, previously in arrears, paid its outstanding

balance of $110,547.22 on December 9, 2024. This payment not only replenishes the Program's funding but also provides an opportunity to enhance its sustainability. Moving forward, the vendor is set up for automatic payment processing, reducing the risk of future delays.

To maintain the RAP's critical role in the community, it is imperative to allocate these recovered funds and plan for further expansion. Staff recommends increasing program funding from $170,000 to $210,000, which would allow the restoration of service levels by increasing program slots from 565 to 700. This adjustment ensures that eligible customers are not turned away due to funding shortages.

Moreover, the Program's outlook is promising. A new cell tower installation at Well 8A is scheduled in the coming months, and there is the potential of two additional cell lease areas in process. These developments will generate additional revenue streams, solidifying RAP's financial foundation to serve eligible customers.

Strategic Plan Initiative/Mission Statement:

This item is under Strategic Initiative No. 6 – Customer Care, Advocacy and Outreach.
This item directly relates to the District's Mission Statement.

Budget:

This item has no budget impact.

Supporting Documents:

- Not Applicable

AGENDA ITEM NO. 7.4

Conference/Training Request

Event Name/Date(s):

AVO Training Institute NFPA 70B Standard for Electrical Equipment Maintenance – Pasadena, CA

REQUESTED BY:

First Name | Last Name | Date

ACCOMMODATION INFORMATION (If applicable)

Rooms and rates are subject to availability. Complete and submit this form as soon as possible as reservation blocks at host hotels book quickly. In the event that the host hotel is full, every effort will be made to secure a room at the nearest hotel within comparable rates.

Arrival Date | Departure Date | No. of Guests | Room Type

Single/King Bed

Dietary Restrictions?
If yes, please provide specifics in additional info. box

○ Yes ◉ No

Smoking Room?

○ Yes ◉ No

Flight Needed?
If yes, please provide DL# and D.O.B. in additional info. box

☐ Yes ☐ No

Flight Numbers

Departure/Return Times

ADDITIONAL INFORMATION/ REQUESTS

Supervisor Approval (If applicable)

Processed By:

NFPA 70B® Standard for Electrical Equipment Maintenance

2 Days, 1.4 CEUs

NFPA 70B®, titled "Standard for Electrical Equipment Maintenance," is a standard developed by the National Fire Protection Association (NFPA®) in the United States. It provides guidelines and best practices for the maintenance of electrical equipment to ensure its safe and reliable operation. This course is designed to cover the standard and the wide range of topics it discusses, including inspection, testing, and preventive maintenance of electrical systems and equipment. NFPA 70B® aims to reduce the risk of electrical failures, accidents, and fires by promoting regular maintenance and addressing potential hazards in electrical installations.

Classroom Attire

AVO Training Institute is committed to the personal safety of each participant and require long pants and ANSI rated “safety-toe” work shoes for lab activities. Lecture courses may involve a tour of a work or shop area and for this reason open-toe shoes and shorts are not considered appropriate attire for the classroom.

Learning Objectives

To receive 1.4 CEUs, participants must attend 2 days of class (14 contact hours) and attain a minimum grade of 80% on the final exam. Upon completion of this course the participants will demonstrate that they are able to:

- Outline the overall scope and purpose of the NFPA 70B
- Illustrate the benefits of an effective electrical preventative maintenance program
- Demonstrate a basic knowledge of the fundamentals of electrical equipment maintenance
- Explain the need for and use of electrical power system studies
- Utilize the NFPA 70B standard for electrical equipment maintenance and testing
- Practice correct electrical equipment maintenance in hazardous locations
- Use the NFPA 70B to maintain cord-and plug-connected equipment

SCOPE

Day 1* (7 contact hours)

I. Introduction

II. Application and Definitions
- A. Chapter 1 Administration
- B. Chapter 2 Referenced Publications
- C. Chapter 3 Definitions

III. Testing Methods and Maintenance Intervals
- A. Chapter 4 General
- B. Chapter 5 Personnel Safety
- C. Chapter 6 Single-Line Diagrams and System Studies
- D. Chapter 7 Fundamental Tests
- E. Chapter 8 Field Testing and Test Methods
- F. Chapter 9 Maintenance Intervals

IV. Specific Equipment
- A. Hazardous Location Electrical Equipment
- B. Power and Distribution Transformers
- C. Substations and Switchgear
- D. Panelboards and Switchboards
- E. Busways
- F. Circuit Breakers, Low- and Medium-Voltage
- G. Fuses
- H. Switches
- I. Power Cables and Conductors
- J. Cable Tray
- K. Grounding and Bonding

Day 2 (7 contact hours)
- L. Ground-Fault Circuit Interrupters and Ground-Fault Protection of Equipment Systems
- M. Lighting
- N. Wiring Devices
- O. Uninterruptible Power Supplies (UPS)
- P. Rotating Equipment
- Q. Motor Control Equipment
- R. Portable Electrical Tools and Equipment
- S. Photovoltaic Systems
- T. Wind Power Electric Systems and Associated Equipment
- U. Battery Energy Storage Systems
- V. Electric Vehicle Power Transfer Systems
- W. Public Pools, Fountains, and Similar Installations
- X. Protective Relays
- Y. Stationary Standby Batteries

V. Conclusion
- A. Review
- B. Exam

*Class scheduling times may vary based on discussions and size of class

AVO Training Institute is accredited by the International Association for Continuing Education and Training (IACET) and is accredited to issue IACET CEUs

CLIENT EQUIPMENT LIST

NFPA 70B® Electrical Equipment Maintenance

REV: Dec 2023 COURSE NO. 434 BY: C. HELMICK DAYS: 2

NOTE: All items indicated with an asterisk (*) indicate which equipment must be provided by client, everything else is provided by AVO

TEXT (PER 1 STUDENT)	
QUANTITY	**ITEM**
1	*NFPA 70B® ELECTRICAL EQUIPMENT MAINTENANCE* COURSE NO. 434 NOV 2023
1	2023 NFPA 70B® *RECOMMENDED PRACTICE FOR ELECTRICAL EQUIPMENT MAINTENANCE*

EQUIPMENT (PER STUDENT)	
QUANTITY	**ITEM**
1	CALCULATOR
1	PENCIL

MATERIALS NEEDED (PER CLASSROOM)	
QUANTITY	**ITEM**
*1	PROJECTOR OR TV WITH PROJECTION CAPABILITIES
*1	DRY ERASE BOARD WITH MARKERS AND ERASERS
*10	STUDENT TABLES
*10	STUDENT CHAIRS

FOR VIRTUAL CLASSES:
CONTENT MATERIAL WILL BE PROVIDED IN DIGITAL FORMAT

NFPA 70B 2023 Standard for Electrical Equipment Maintenance - OPEN ENRL 2025

ILT (Instructor-Led Training) Sessions ENGLISH

Purchase options

$ 950.00

Need an in-person class right away?
Check with your Account Executive (https://www.avotraining.com/our-team/) for late enrollment seats which may be available.

ADD TO CART

Course details

Average completion time
16 hours

Time to complete
Unlimited access

Credits (CEUs)
Earn 1.4 credits

Course description

NFPA 70B® 2023 Standard for Electrical Equipment Maintenance | OPEN ENRL | (NFPA 70B | #434)
2 DAYS | 1.4 CEUs

COURSE OVERVIEW

NFPA 70B®, titled "Standard for Electrical Equipment Maintenance," is a standard developed by the National Fire Protection Association (NFPA®) in the United States. It provides guidelines and best practices for the maintenance of

Show more

Course sessions

4 Full AVO Sessions

FILTERS

P-02/19/2025-02/20/2025
02/19/2025, 08:00 am - 02/20/2025, 04:30 pm (GMT -06:00) America/Chicago
2 events | AVO | Pasadena | 16h
ADD TO CART

CR-03/26/2025-03/27/2025
03/26/2025, 08:00 am - 03/27/2025, 04:30 pm (GMT -05:00) America/Chicago
2 events | AVO | Crofton (Potomac Testing) | 16h
ADD TO CART

P-03/26/2025-03/27/2025
03/26/2025, 08:00 am - 03/27/2025, 04:30 pm (GMT -05:00) America/Chicago
2 events | AVO | Pasadena | 16h
ADD TO CART

CR-04/23/2025-04/24/2025
04/23/2025, 08:00 am - 04/24/2025, 04:30 pm (GMT -05:00) America/Chicago
2 events | AVO | Crofton (Potomac Testing) | 16h
ADD TO CART

Course syllabus

1 Section | 5 Lessons | 16h 00m

Conference/Training Request

Event Name/Date(s):

AVO Training Institute NFPA 70E – 2024 Electrical Safety in Pasadena, CA

REQUESTED BY:

First Name | Last Name | Date

ACCOMMODATION INFORMATION (If applicable)

Rooms and rates are subject to availability. Complete and submit this form as soon as possible as reservation blocks at host hotels book quickly. In the event that the host hotel is full, every effort will be made to secure a room at the nearest hotel within comparable rates.

Arrival Date | Departure Date | No. of Guests | Room Type

Single/King Bed

Dietary Restrictions?
If yes, please provide specifics in additional info. box

○ Yes ◉ No

Smoking Room?

○ Yes ◉ No

Flight Needed?
If yes, please provide DL# and D.O.B. in additional info. box

☐ Yes ☐ No

Flight Numbers

Departure/Return Times

ADDITIONAL INFORMATION/ REQUESTS

Supervisor Approval (If applicable)

Processed By:

NFPA® 70E – 2024 Electrical Safety

2 Days, 1.4 CEUs

The NFPA® 70E Standard for Electrical Safety in the Workplace has been updated for 2024. This updated standard contains significant changes when compared to the 2020 version. The course covers the requirements for working safely in the electrical environment based on the NFPA® 70E. Understanding this standard is imperative for compliance with the OSHA® mandates regarding electrical safety in the workplace. OSHA® specifically mandates employer assessment of generally recognized hazards in the workplace, and provisions for protecting the employee from those hazards.

The NFPA® 70E is updated to reflect ongoing research to improve electrical safe work practices and PPE. OSHA® compliance and a safe workplace are the desired outcomes. NFPA® 70E provides the directions on how to achieve that outcome. Fewer electrical accidents are in everyone's best interest.

This two-day course is intended for any qualified personnel who work on or around AC or DC voltages of 50 volts or more, or that are responsible for safety in the workplace. Personnel in any industry where the hazards of electricity are a reality will benefit from this knowledge. This course assists in meeting the mandated training requirements of OSHA® 1910.332. Participants will receive the 2024 edition of the NFPA® 70E.

Lab and Classroom Attire

AVO is committed to the personal safety of each participant and requires long pants and ANSI rated "safety toe" work shoes for class and lab activities. Lecture courses may involve a tour of a work or shop area and for this reason open toe shoes and shorts are not considered appropriate attire for the classroom.

Learning Objectives

To receive 1.4 CEUs, participants must attend 2 days of class (14 contact hours) and attain a minimum grade of 80% on the final exam. Upon completion of this course, the participant will demonstrate that he/she is able to:

- Outline the arrangement of the material in the NFPA® 70E.
- Explain the hazards of electrical work and their effects on the employee.
- Summarize the requirements for establishing an electrically safe work condition.
- Establish the requirements for a shock risk and arc flash assessments.
- Implement approach boundaries for shock protection and arc flash hazard for qualified and unqualified employees.
- Select personal protective equipment for shock and arc flash protection.
- Practice safe work practices if an arc flash hazard is present.

SCOPE

Day 1* (7 contact hours)

I. Introduction - Electrical Safety
II. Article 90 & Chapter 1, Article 100
  A. Article 90, NFPA® 70E Introduction
  B. Article 100, Definitions
III. Chapter 1, Article 105
  A. Recognized Hazards of Electrical Work
  B. Responsibilities of Employers and Employees
IV. Chapter 1, Article 110
  A. Electrical Safe Work Condition
  B. Energized Work
  C. Electrical Safety Program
  D. Training Requirements
  E. Host/Contractor Responsibilities
  F. Test Instruments and Equipment
  G. Portable Cord- and Plug-Connected Electric Equipment
  H. Ground-Fault Circuit-Interrupter (GFCI) Protection
  I. Overcurrent Protection Modification
  J. Equipment Use
V. Chapter 1, Article 120 (1.5 hrs)
  A. LOTO Program
  B. LOTO Principles
  C. LOTO Equipment
  D. LOTO Procedure
  E. LOTO Process

*Class scheduling times may vary based on discussions and size of class

AVO Training Institute is accredited by the International Association for Continuing Education and Training (IACET) and is accredited to issue the IACET CEU

NFPA 70E® – 2024 Electrical Safety

2 Days, 1.4 CEUs

SCOPE (continued)

Day 2 (7 contact hours)

VI. Chapter 1, Article 130
- A. Work Involving Electrical Hazards
- B. Energized Electrical Work Permit
- C. Electrical Shock Risk Assessment
- D. Arc Flash Risk Assessment
- E. Personal and Other Protective Equipment
- F. Other Precautions for Personnel Activities
- G. Overhead Lines
- H. Underground Electrical Lines and Equipment
- I. Cutting or Drilling

VII. Chapter 2 Safety-Related Maintenance Requirements
- A. Introduction
- B. General Maintenance Requirements
- C. Substations, Switchgear, etc.
- D. Premises Wiring
- E. Controller Equipment
- F. Fuses and Circuit Breakers
- G. Rotating Equipment
- H. Hazardous Locations
- I. Batteries and Battery Room
- J. Portable Electric Tools and Equipment
- K. Personnel Safety and Protective Equipment

VIII. Chapter 3 Safety Requirements for Special Equipment
- A. Introduction
- B. Safety Related Work Practices for:

  Electrolytic Cells

  Batteries and Battery Rooms

  Lasers

  Power Electronic Equipment

  R&D Labs

  Capacitors

IX. Overview of Informative Annexes

X. Conclusion
- A. Review
- B. Final Exam

AVO Training Institute is accredited by the International Association for Continuing Education and Training (IACET) and is accredited to issue the IACET CEU

STANDARD EQUIPMENT LIST

NFPA 70E® 2024 - ELECTRICAL SAFETY

REVISED: July 2023 COURSE NO. 433-2024 BY: G. RICHMOND DAYS: 2

TEXT (PER 1 STUDENT)	
QUANTITY	**ITEM**
1	AVO BOOK NFPA 70E - 2024 ELECTRICAL SAFETY, June 2024

FOR VIRTUAL CLASSES:

CONTENT MATERIAL WILL BE PROVIDED IN DIGITAL FORMAT

BOOK OF STANDARDS WILL ONLY BE SENT FOR VIRTUAL ON-SITE CLASSES UPON REQUEST BY THE CLIENT

NFPA 70E® 2024 Electrical Safety 2-day - OPEN ENRL 2025

ILT (Instructor-Led Training) Sessions ENGLISH

Purchase options

$ 900.00

Need an in-person class right away?
Check with your Account Executive (https://www.avotraining.com/our-team/) for late enrollment seats which may be available.

ADD TO CART

Course details

Time to complete
Unlimited access

Credits (CEUs)
Earn 1.4 credits

Course ID
I-D19YRV

COURSE OVERVIEW

The NFPA 70E® Standard for Electrical Safety in the Workplace has been updated for 2024. This updated standard contains significant changes when compared to the 2021 version. The course covers the requirements for working safely in the electrical environment based on the NFPA 70E®. Understanding this standard is imperative for compliance with the OSHA mandates regarding electrical safety in the workplace.

OSHA specifically mandates employer assessment of generally recognized hazards in the workplace, and provisions for protecting the employee from those hazards. Some of the changes in the 2024 NFPA 70E® edition include: the arc flash risk assessment procedures, a revised task-based table to clarify selection methods for arc flash personal protective equipment (PPE), and the electrical safety program requirements for inspection, job safety planning, and incident investigations on electrical equipment.

The NFPA 70E® is updated to reflect ongoing research to improve electrical safe work practices and PPE. OSHA compliance and a safe workplace are the desired outcomes. NFPA 70E® provides the directions on how to achieve that outcome. Fewer electrical accidents are in everyone's best interest.

DOWNLOAD THE COURSE OUTLINE and EQUIPMENT LIST HERE>>>

Please don't hesitate to call us, if you have any questions about the course or enrollment: **1-877-594-3156**.

The deadline for enrollment into a virtual class is the last Wednesday before the week of class.
The deadline for enrollment into an open enrollment, in-person class is 2 weeks plus a Wednesday before the week of the class. This applies to all locations (including Dallas).
An additional $100 late fee is charged for enrollments after the deadlines above.
Please reach out to your Account Executive or call 877-594-3156 for more information.

Plazos de inscripción y tarifas por inscripción tardía

La fecha límite para inscribirse en una clase virtual es el último miércoles antes de la semana de clases.
La fecha límite para la inscripción en una clase presencial de inscripción abierta (open enrollment) es 2 semanas más un miércoles antes de la semana de la clase. Esto se aplica a todas las ubicaciones (incluyendo los cursos en Dallas).
Se cobran $100 adicionales como tarifa por inscripciones realizadas después de las fechas límite mencionadas anteriormente.
Comuníquese con su ejecutivo de cuenta o llame al 877-594-3156 para obtener más información.

Show less

Course sessions

8 Full AVO Sessions

FILTERS

O-02/12/2025-02/13/2025
02/12/2025, 07:30 am - 02/13/2025, 03:30 pm (GMT -06:00) America/Chicago
2 events | AVO | Oakland | 16h
ADD TO CART

P-02/17/2025-02/18/2025
02/17/2025, 08:00 am - 02/18/2025, 04:30 pm (GMT -06:00) America/Chicago
2 events | AVO | Pasadena | 16h
ADD TO CART

CR-02/27/2025-02/28/2025
02/27/2025, 08:00 am - 02/28/2025, 04:30 pm (GMT -06:00) America/Chicago
2 events | AVO | Crofton (Potomac Testing) | 16h
ADD TO CART

D-03/20/2025-03/21/2025
03/20/2025, 08:00 am - 03/21/2025, 04:30 pm (GMT -05:00) America/Chicago
2 events | AVO | Dallas | 16h
ADD TO CART

03/25/2025
03/24/2025, 08:00 am - 03/25/2025, 04:30 pm (GMT -05:00) America/Chicago
2 events | AVO |Crofton (Potomac Testing) | 16h
ADD TO CART

P-03/24/2025-03/25/2025
03/24/2025, 08:00 am - 03/25/2025, 04:30 pm (GMT -05:00) America/Chicago
2 events | AVO |Pasadena | 16h
ADD TO CART

O-03/31/2025-04/01/2025
03/31/2025, 07:30 am - 04/1/2025, 03:30 pm (GMT -05:00) America/Chicago
2 events | AVO |Oakland | 16h
ADD TO CART

CR-04/21/2025-04/22/2025
04/21/2025, 08:00 am - 04/22/2025, 04:30 pm (GMT -05:00) America/Chicago
2 events | AVO |Crofton (Potomac Testing) | 16h
ADD TO CART

Course syllabus

1 Section | 5 Lessons

Photography Release Form
HTML

Keycard Agreement Form
HTML

Laptop Agreement Form
HTML

Course Evaluation (NFPA 70E)
HTML

For Instructor Use Only

Additional information

Course Acronym

Conference/Training Request

Event Name/Date(s):

AWWA California - Nevada Water Conference of the West – April 7 - 10, 2025 – Anaheim, CA

REQUESTED BY:

First Name | Last Name | Date

ACCOMMODATION INFORMATION (If applicable)

Rooms and rates are subject to availability. Complete and submit this form as soon as possible as reservation blocks at host hotels book quickly. In the event that the host hotel is full, every effort will be made to secure a room at the nearest hotel within comparable rates.

Arrival Date | Departure Date | No. of Guests | Room Type

Room Type: Single/King Bed

Dietary Restrictions?
If yes, please provide specifics in additional info. box

○ Yes ◉ No

Smoking Room?

○ Yes ◉ No

Flight Needed?
If yes, please provide DL# and D.O.B. in additional info. box

☐ Yes ☐ No

Flight Numbers

Departure/Return Times

ADDITIONAL INFORMATION/ REQUESTS

Supervisor Approval (If applicable)

Processed By:

American Water Works Association
California-Nevada Section

Water Conference of the West 2025
Disneyland Hotel, Anahiem
April 7-10, 2025

Registration Form

Date: _____ Time: _____

Attendee Name: _____

Title: _____ Company: _____

Address: _____ City: _____ State: _____ Zip: _____

Phone: _____ Cell: _____ Fax: _____

Email: _____ CA-NV-AWWA Member #: _____

Type of Membership (please check one): ☐ Individual ☐ Organization ☐ Operator/Admin. ☐ Utility

Full Registration

Includes all tech sessions, opening session, lunches & Thursday's Conference Workshop

CA-NV-AWWA Member Pricing

Early
On/Before 1/28/25.....$575

Pre
On/Before 3/1/25.....$625

Onsite
After 3/1/25.....$675

Non-Member Pricing

Early
On/Before 1/28/25.....$625

Pre
On/Before 3/1/25.....$675

Onsite
After 3/1/25.....$725

One Day Registration

Includes tech sessions & lunch.
☐Tues ☐Weds ☐Thurs

CA-NV-AWWA Member Pricing

Early
On/Before 1/28/25.....$325

Pre
On/Before 3/1/25.....$375

Onsite
After 3/1/25.....$425

Non-Member Pricing

Early
On/Before 1/28/25.....$375

Pre
On/Before 3/1/25.....$425

Onsite
After 3/1/25.....$475

Subtotal:_____

Full Speaker Registration

Includes all tech sessions, opening session, lunches & Thursday's Conference Workshop

CA-NV-AWWA Member Pricing

Pre
On/Before 3/1/25.....$305

Onsite
After 3/1/25.....$355

Non-Member Pricing

Pre
On/Before 3/1/25.....$355

Onsite/After 3/1/25.....$405

One Day Speaker Registration

Includes tech sessions & lunch.
☐Tues ☐Weds ☐Thurs

CA-NV-AWWA Member Pricing

Pre
On/Before 3/1/25.....$190

Onsite
After 3/1/25.....$240

Non-Member Pricing

Pre
On/Before 3/1/25.....$240

Onsite
After 3/1/25.....$280

Request ONE DAY COMPLIMENTARY SPEAKER REGISTRATION
☐Tues ☐Weds ☐Thurs
(contingent upon approval)

☐ Attending only for the day of scheduled presentation for the **express purpose of giving the talk.**

☐ Traveling from a location outside of California or Nevada.

Subtotal:_____

Student/Retiree Registration

Includes all tech sessions, opening session, lunches & Thursday's Conference Workshop

CA-NV-AWWA Student/Retiree Pricing
No Meals.....$10

With all Meals.....$105

☐ STUDENT REGISTRATION - Must be: Full time Student/CA-NV-AWWA Student Member

☐ RETIREE REGISTRATION - Must be:

1) Retired from all gainful employment.

2) A member of AWWA for at least 15 years.

3) At least 60 years of age.

Subtotal:_____

Additional Conference Items

Tuesday Lunch.....$50/Onsite $55

Wednesday Lunch.....$25

Thursday Lunch.....$50/Onsite $55

Conference Workshop.....$35
☐Mon ☐Thurs(Global Strategies, Local Action)

Technical Tour.....$65
☐Tues ☐Weds

Subtotal:_____

CONTACT HOURS (REQUIRED)

Earn up to 12 contact hours at this event.
☐ **FREE** (I am an individual, operator or administrative CA-NV AWWA member)

☐ **$25** (My utility/organization is an CA-NV AWWA member OR I am not an CA-NV AWWA member)

☐ **DOES NOT APPLY** (I will not be requesting contact hours)

Subtotal:_____

PAYMENT METHOD

Check # _____
Payable to CA-NV Section AWWA (U.S. Funds)

PO# _____

Credit Card: ☐ Visa ☐ MC ☐ AMEX

Card No.: _____

Exp. Date: _____ CVV: _____

Name on Card: _____

Authorized Signature: _____

Billing Zip Code: _____
Must be Zip Code in which your credit card statement is mailed

Email (to receive a receipt): _____

PAYMENT INFORMATION

Registration Total: _____
Contact Hours: _____
Total Amount Due: _____

Return this completed form with your payment or purchase order to
CA-NV AWWA • 10435 Ashford Street
Rancho Cucamonga, CA 91730
or submit by fax to (909) 291-2107 or by email to
schickarmane@ca-nv-awwa.org

Refund requests must be submitted in writing to the Section office by March 10 , 2025. A 25% administrative fee will be deducted from all refunds. **No Refunds Granted after March 10, 2025.** By submitting this form, you are consenting to having your photo/video taken at the event which may be used for future Section promotions. To opt-out email info@ca-nv-awwa.org.

If you haven't already done so, please Sign In or Create an Account to register.

Should you need assistance with your registration, email our Accounting/Registration Specialist, Shobhan Chickarmane.

Please allow up to 30 days from course completion for contact hours to be processed.

ATTENDEE-WCW25 - Anaheim, CA

When 4/7/2025 - 4/10/2025

Where Disneyland Hotel
1150 Magic Way,
Anaheim, CA 92802

Register Myself

Register Someone Else

My registration status: Not registered

Registration Options	Price
○ FULL Registration	575.00
○ TUESDAY Registration	325.00
○ WEDNESDAY Registration	325.00
○ Thursday Registration	325.00

Additional Registration Options

Select programs by Day ☐ **Only display program items in registrant's itinerary**

Monday, 07 April 2025

Monday Workshop

Price	35.00
Time	8:00 AM - 4:00 PM

8:00 AM

$25 - Contact Hours

Price	25.00
Time	4/7/2025 8:00 AM - 4/10/2025 5:00 PM

8:00 AM

Tuesday, 08 April 2025

Wednesday, 09 April 2025

Thursday, 10 April 2025

Refund Policy

Requests for refunds and transfers must be made in writing and are subject to the following conditions: Full refund of fee paid (minus 25% handling fee) will be issued for cancellations received more than 15 days prior to class start date. All fees are non-refundable thereafter. Transfers are based on availability. No transfer requests will be authorized if they are not received more than 15 days prior to class start date. A 100% refund or credit of your registration fee will be issued if a class is canceled by the Section.

Transfer Policy

Requests for transfers must be made in writing and are subject to the following conditions: Transfers are based on availability. No transfer requests will be authorized if they are not received more than 15 days prior

MINUTES OF MEETING OF THE FINANCE COMMITTEE OF THE PALMDALE WATER DISTRICT, NOVEMBER 19, 2024:

A meeting of the Finance Committee of the Palmdale Water District was held Tuesday, November 19, 2024, at 2029 East Avenue Q, Palmdale, CA 93550. Chair Wilson called the meeting to order at 2:00 p.m.

1) Roll Call.

Attendance:	**Others Present:**
Committee:	Dennis LaMoreaux, General Manager
Don Wilson, Chair	Dennis Hoffmeyer, Finance Manager
Scott Kellerman,	Bob Egan, Financial Advisor
Committee Member	Maureen Sabino, Accounting Supervisor
	Cynthia Sanchez, Committee Member Alternate
	Danielle Henry, Executive Assistant
	0 members of the public

2) Adoption of Agenda.

It was moved by Committee Member Kellerman, seconded by Chair Wilson, and unanimously carried by all members of the Committee present at the meeting to adopt the agenda, as written.

3) Public Comments for Non-Agenda Items.

There were no public comments for non-agenda items.

4) Action Items: (The Public Shall Have an Opportunity to Comment on Any Action Item as Each Item is Considered by the Committee Prior to Action Being Taken.)

4.1) Consideration and Possible Action on Approval of Minutes of Meeting held October 22, 2024.

It was moved by Committee Member Kellerman, seconded by Chair Wilson, and unanimously carried by all members of the Committee present at the meeting to approve the minutes of the Finance Committee meeting held October 22, 2024, as written.

4.2) Consideration and Possible Action on Approval of Minutes of Special Meeting held November 6, 2024.

It was moved by Committee Member Kellerman, seconded by Chair Wilson, and unanimously carried by all members of the Committee present at the meeting to approve the minutes of the Special Finance Committee meeting held November 6, 2024, as written.

4.3) Discussion and Overview of Cash Flow Statement and Current Cash Balances as of October 2024. (Financial Advisor Egan)

Financial Advisor Egan provided an overview of the monthly Major Account Activity Report, the Investment Funds Report, and the Cash Flow Statement through October 2024, including account transfers, assessments received, capital improvement funds, interest and market values, scheduled payments and the projected year-end balance followed by a brief discussion of District investments, interest earnings, water transfer sales, and anticipated Prop. 1A grant funding.

4.4) Discussion and Overview of Financial Statements, Revenue, and Expense and Departmental Budget Reports for October 2024. (Finance Manager Hoffmeyer)

Finance Manager Hoffmeyer reviewed in detail the Balance Sheet Report, the Profit and Loss Statement, the departmental budgets versus actual, and individual departmental reports for the period ending October 2024, including scheduled payments, long-term liabilities, and continued water sale increases and stated that operating revenues are above the historical trend average at 87.7%, that expenses are below the historical trend average at 73.1%, and that most departments are at or below the traditional budgetary percentage of 84.4% followed by a brief discussion of below budgeted capital improvement fees, personnel costs, increased chemical and electrical expenses, Customer Care staff-related expenses, and consultant costs.

4.5) Discussion and Overview of Committed Contracts Issued. (Finance Manager Hoffmeyer)

Finance Manager Hoffmeyer provided a brief overview of the Contractual Commitments and Needs Report for new and replacement capital projects, consulting and engineering support projects, new and replacement equipment, water quality fee funded projects, committed and projected capital expenditures, and projects paid out

through the 2023A and 2024A Series Water Revenue Bonds in October 2024, and stated that the final payment was made for the Advanced Metering Infrastructure (AMI) system equipment; that the first construction invoice was received for the Pure Water AV Demonstration Facility; that the final payment was made for the DUO Multi-Factor Authentication; that grant funding and Palmdale Recycled Water Authority (PRWA) cost-sharing funds are anticipated for the Avenue Q Recycled Water Pipeline project; and that staff consulted with UBS Financial regarding 2024 Water Revenue Bond interest earnings.

4.6) Discussion and Possible Recommendation on Purchase of FP&A Reporting Software. ($52,000.00 – Non-Budgeted – Finance Manager Hoffmeyer)

Finance Manager Hoffmeyer provided an overview of the benefits and features of FP&A reporting software, and after a brief discussion of the lack of support for the outdated software currently used by staff, of the vendor proposals received, of the associated costs, and of the compatibility and reporting features offered through the recommended Vena Professional platform, it was moved by Committee Member Kellerman, seconded by Chair Wilson, and unanimously carried by all members of the Committee present at the meeting to recommend the purchase of FP&A reporting software in the amount of $52,000.00 and that this item be presented to the full Board for consideration at the November 25, 2024 Regular Board Meeting.

5) Reports.

5.1) Finance Manager Hoffmeyer:

a) Accounts Receivable Overview.

Finance Manager Hoffmeyer provided a brief update on outstanding balances for accounts 60 days delinquent and stated that as of October 31, there are twenty-two payment arrangements totaling $25,636.09 with $6,285.51 collected to date and that arrangements related to high water use from leaks continue to increase.

b) Revenue Projections.

He then stated that based on selling 14,500 AF of water, 2024 revenue is ahead of projections by approximately $432,406.88 as of October 31.

5.2) Financial Advisor Egan:

a) Debt Service Coverage Status.

Financial Advisor Egan reported that the Debt Service Coverage for November 2023 to October 2024 is 2.48 and remains healthy and then highlighted the positive increases to the District's Rate Stabilization Fund after which Finance Manager Hoffmeyer stated that the District is in a positive position to make an additional transfer before the end of 2024.

5.3) Other.

There were no further reports.

6) Board Members' Requests for Future Agenda Items.

There were no requests for future agenda items.

7) Date of Next Committee Meeting.

It was determined that the next Finance Committee meeting will be held December 17, 2024 at 2:00 p.m.

8) Adjournment.

There being no further business to come before the Finance Committee, the meeting was adjourned at 3:20 p.m.

Chair

BOARD MEMORANDUM

DATE: January 27, 2025

TO: **BOARD OF DIRECTORS**

FROM: Dennis D. LaMoreaux, General Manager

RE: ***REPORT OF GENERAL MANAGER.***

The following is the January 2025 report to the Board of activities through December 2024. It is organized to follow the District's 2022 Strategic Plan approved in October 2022 and composed of six strategic initiatives. The initiatives follow for reference. It is intended to provide a general framework to update the month's activities.

PWD 2022 STRATEGIC PLAN SUMMARY

***Water Resource Reliability*:** *Resilience, Development, Partnership*

Support and participate with local agencies in the development of projects and policies that improve water reliability

Maximize state and federal funding opportunities for Pure Water AV

Support projects and initiatives that increase the resilience of the State Water Project

Develop water storage options for State Water Project supplies and improve groundwater capture capabilities

Strengthen stakeholder relationships and implement Littlerock Dam and Reservoir Sediment Removal Project

***Organizational Excellence*:** *Train, Perform, Reward*

Offer competitive compensation and benefits package for employee recruitment and retention

Focus Succession Planning Program on ensuring an overlap of training for key positions

Continue providing transparency to our ratepayers through training for the ongoing achievement of the Districts of Distinction certification

Encourage cohesiveness, transparency, and integrity within the staff through Codes of Conduct and increased accountability

Ensure employees are trained on the Strategic Plan and the District's Values of Diversity, Integrity, Teamwork, and Passion

Improve safety for Directors, employees, and customers

Develop career paths at the District for interns and pursue state and federal funding for intern programs

Cultivate a positive culture and increase employee engagement

***Systems Efficiency*:** *Independence, Technology, Research*

Explore energy independence and evaluate the feasibility of energy options, including wind and solar

Incorporate more energy efficient technologies into the District's infrastructure

Research state-of-the-art treatment techniques to enhance systems efficiency

Re-evaluate Lake Palmdale by-pass pipeline and pursue funding options

Improve Palmdale Ditch to reduce water loss

***Financial Health and Stability*:** *Strength, Consistency, Balance*

Pursue grant funding for District projects and operations

Maintain the five-year financial plan adopted as part of the 2019 Water Rate Study, including the five-year Capital Improvement Plan

Conduct and adopt a 2024 five-year Water Rate Plan

Build adequate reserve levels and achieve high-level bond rating

Seek potential revenue sources from vacant District properties

Monitor finances, operations, and projects affected by emergencies

Digitize and document departmental workflows

***Regional Leadership*:** *Engage, Lead, Progress*

Continue to provide opportunities and information for local businesses and agencies to contract with the District

Continue to collaborate with neighboring water agencies and move to include more agencies throughout and outside of the Antelope Valley through Greater Antelope Valley Mutual Response Agreements and emergency response exercises

Develop working relationships and mutually beneficial projects with other water agencies in the District's region

Develop strategies, alliances, and funding to make Littlerock Dam and Reservoir recreational again

Continue Memorandum of Understanding with United Water Conservation District to combine political forces to obtain grant funding and research other joint cooperative regional efforts

Continue representation on larger regional organizations such as the California Special Districts Association (CSDA) and the Association of California Water Agencies (ACWA) and assist with the growth and influence of the Special Districts Association of North Los Angeles County, a CSDA local chapter

***Customer Care, Advocacy and Outreach*:** *Promote, Educate, Support*

Enhance customers' experience through communication and feedback

Expand and market additional payment options

Continue to increase public awareness of current programs and services through traditional and new media platforms

Engage elected officials and the public on the importance of local and state water reliability issues

Complete conversion to an Advanced Metering Infrastructure (AMI) to increase customers' knowledge of water use and promote customer self-help portal

Continue to increase public awareness of the on-going drought and the importance of conservation efforts

Publicize, engage, and educate the community about Pure Water AV

Overview

This report also includes charts that show the effects of the District's efforts in several areas. They are organized within each strategic initiative and include status of the State Water Resources Control Board's (SWRCB) former long-term conservation orders (20 x 2020), the District's total per capita water use trends, 2024 actual water production and customer use graph, mainline leaks, and the water loss trends for both 12- and 24-month running averages.

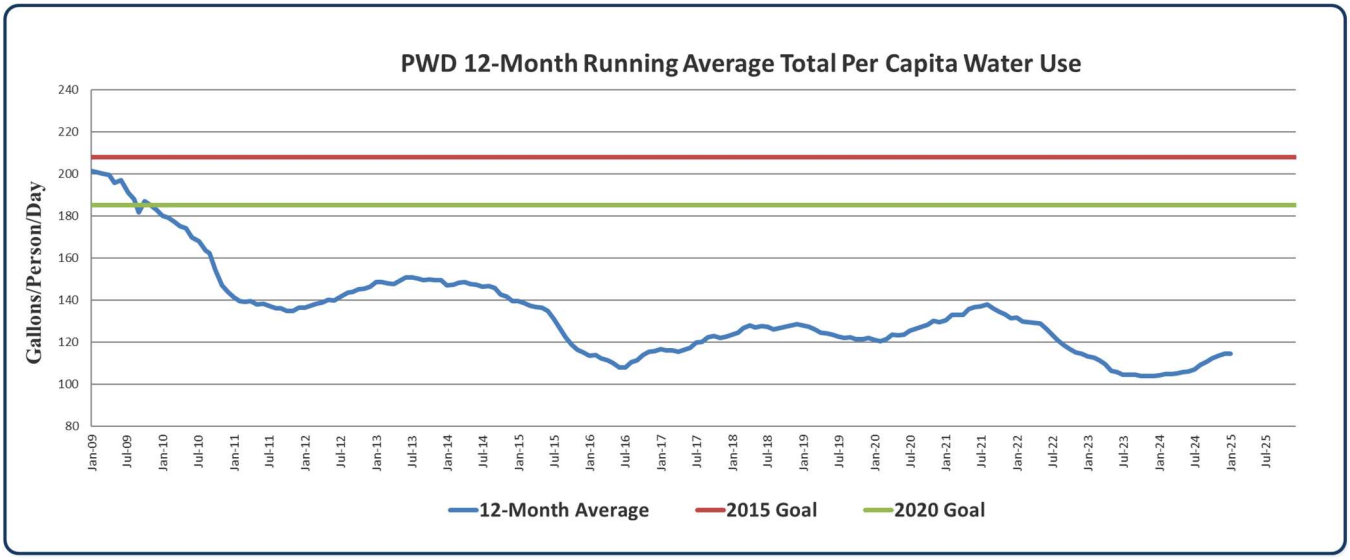
Water Resource Reliability *Resilience, Development, Partnership*

This initiative includes conservation efforts, water supply projects, and water planning. Recent highlights are as follows:

Overall Water Use Goals and Compliance

The 2020 Urban Water Management Plan was adopted by the District in June 2021. This report still uses the 20 x 2020 requirements. It does not relate the District's water use to the upcoming agency water budget requirement. The new "Making Conservation a Way of Life" regulations were approved on July 3, 2024. The District's use of a water budget-based rate structure is helpful in complying with the new regulations. Current staff estimates show the District is within 4% of complying with the new regulations when they become fully implemented in 2027.

The District's compliance with the former 20 x 2020 law is evident from the chart titled "PWD 12-Month Running Average Total Per Capita Water Use:"



The District's customers have cut their water use by **49.4%** from the baseline number of 231 re-established in the 2020 Urban Water Management Plan and met the 2020 Goal in early 2010. The current Metered-GPCD, gallons per capita per day, is now 114 showing our customers continued reduced usage.

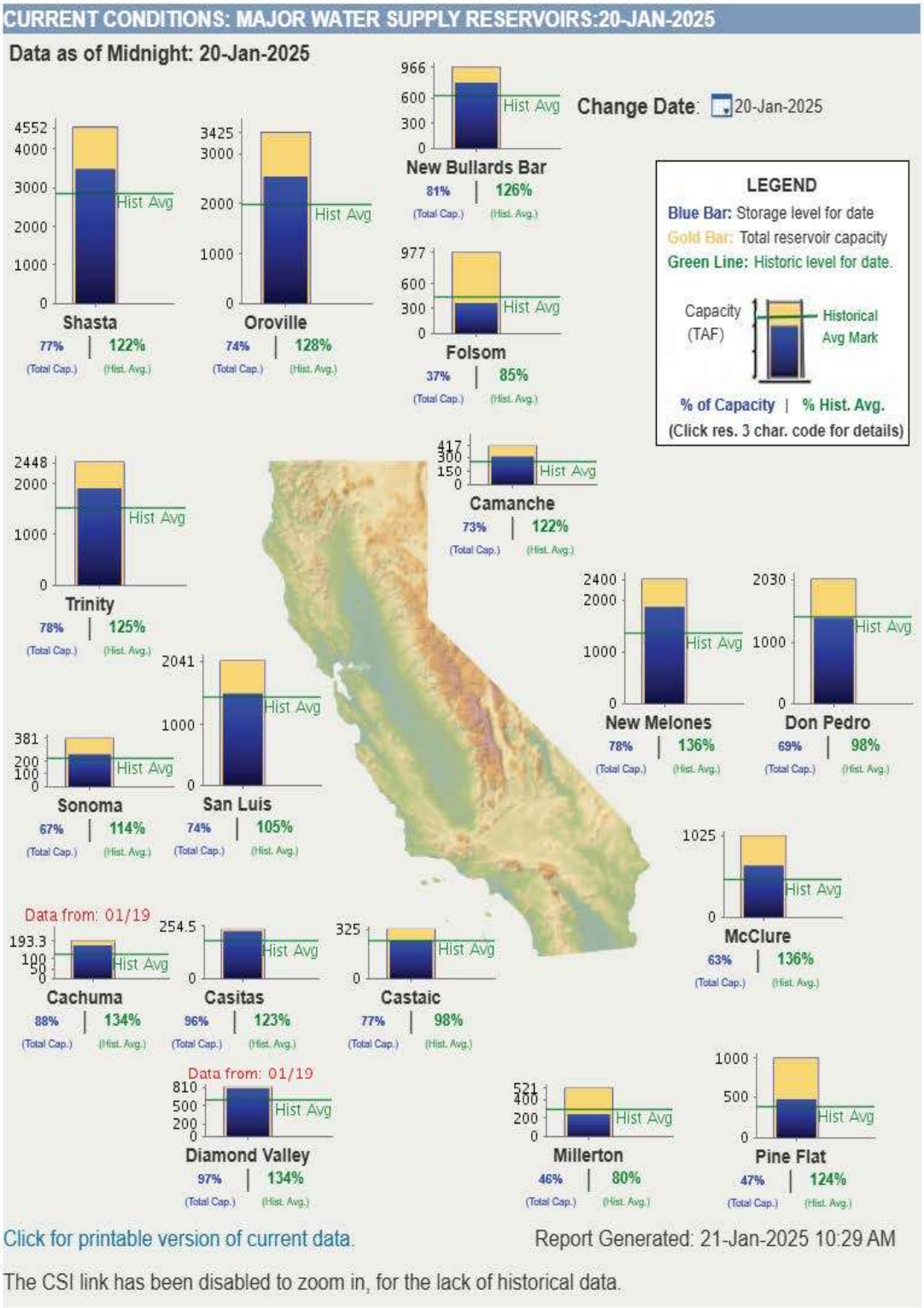
Water Supply Information

- The AV Adjudication is now entering its ninth year, and the ramp down to the native safe yield is complete. The District's 2024 groundwater production right is as follows: 7,978.08 AF, 11,620.12 AF of unused Carry Over from prior years, and 8,055 AF of water banked in Littlerock Wash for a total of 27,073.19 AF.

- The full 2024 Water Resources Plan is complete. The goal is taking advantage of the available surface water and producing a minimum of 4,300 AF of groundwater using the native and unused Federal production rights. The 2024SWP allocation remained at 40%.

The reason for the 40% allocation in a nearly average precipitation year can be seen in the following reservoir summary. As stated earlier this year, DWR was limited in its ability to move water through the Delta in the spring and summer due to salmon concentrations in the south Delta. While Oroville Reservoir was above average, this delayed filling San Luis Reservoir south of the Delta. Both reservoirs remain near or above average for this date.

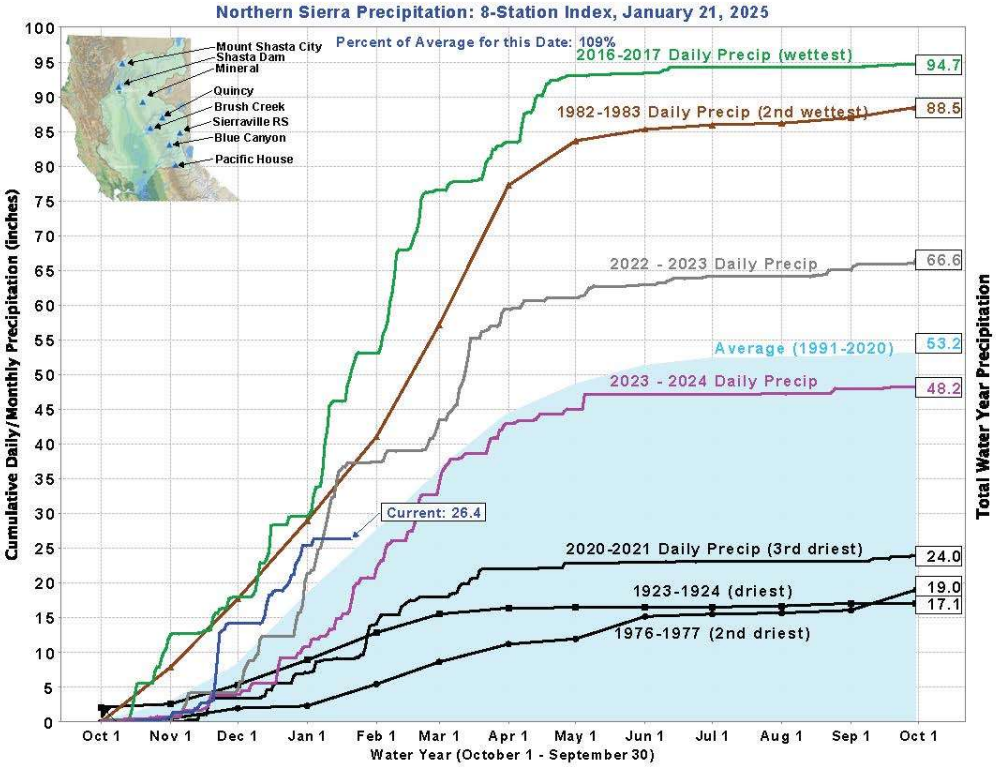
The January 21, 2025 reservoir summary is as follows:



We started 2024 off with a full and spilling Littlerock Dam and Reservoir. The diversions from Littlerock Reservoir stopped on June 24, 2024. This is because 5,322 AF of the diversion right of 5,500 AF was used in the current water year that began October 1, 2023. The remainder of water stored in Littlerock Reservoir will be available for use starting on October 1, 2024. The District started taking water from Littlerock Reservoir on Monday, November 18, 2024.

Precipitation in the area that contributes to the State Water Project ended the water year at 91% of average for the entire 2023-2024 Water Year (October through September). It is currently 109% of average for this date.

The January 21, 2025 Northern Sierra precipitation is as follows:

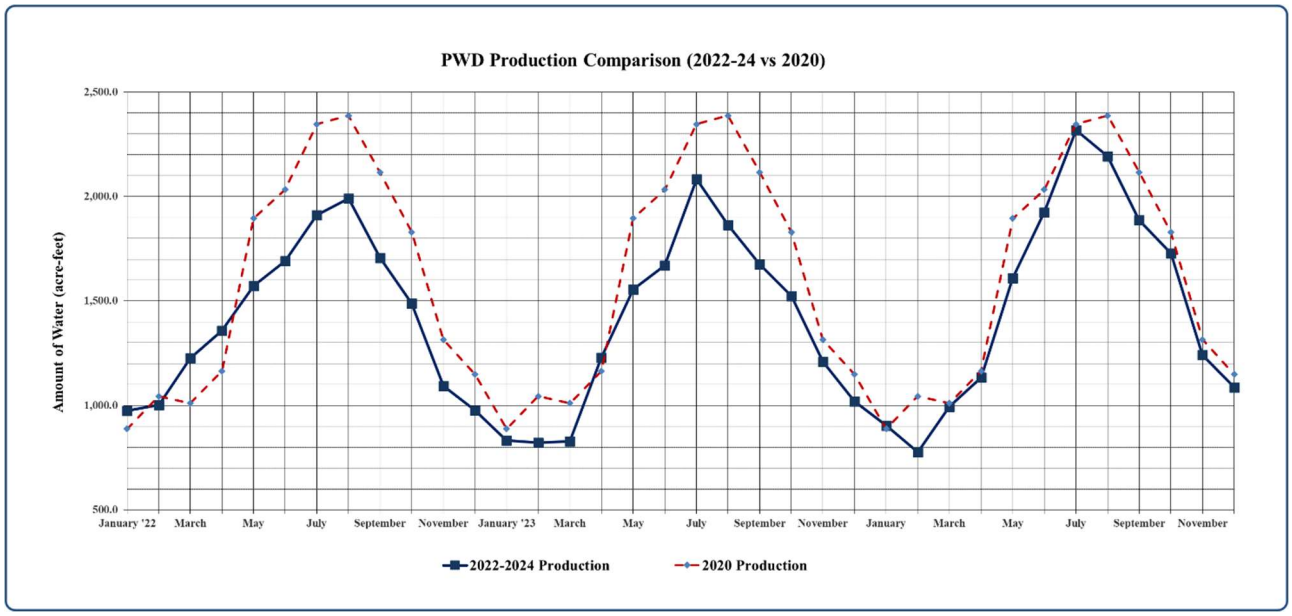


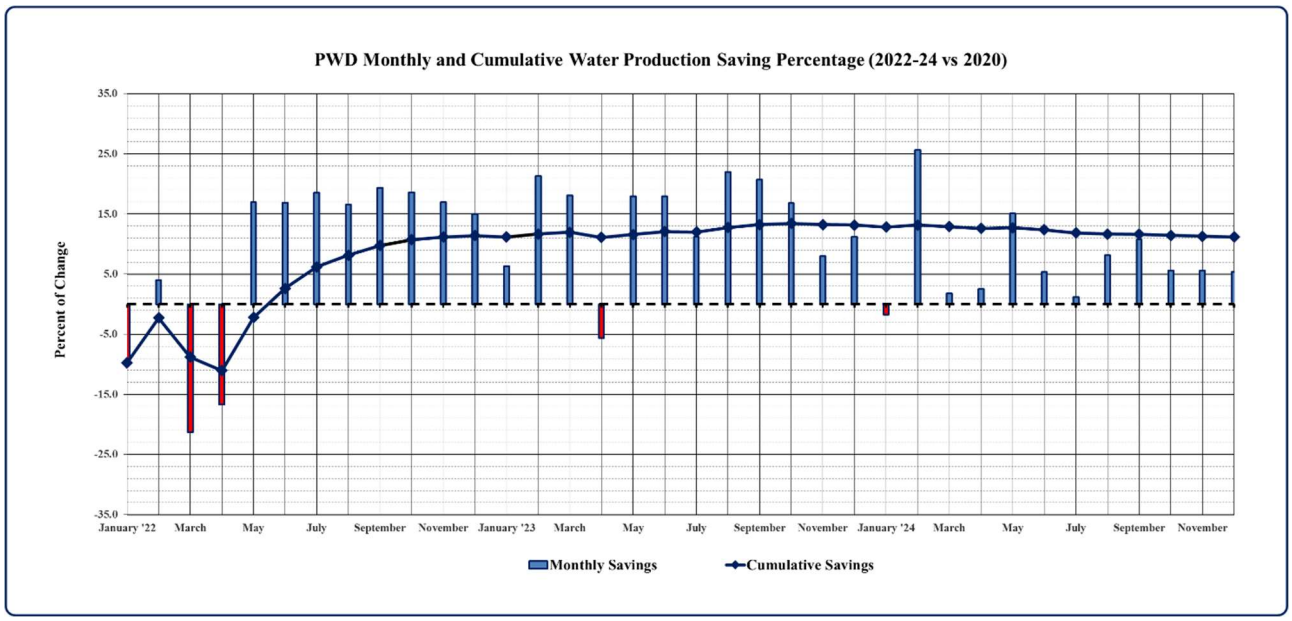
2021-2024 Drought and Wet Year Water Use Summary

The following graphs help to show the 2021-2023 drought response and current use, through 2024, by our customers. The first graph, "PWD Production Comparison (2022-24 vs 2020)," shows the monthly water production in both 2022-24 and 2020.

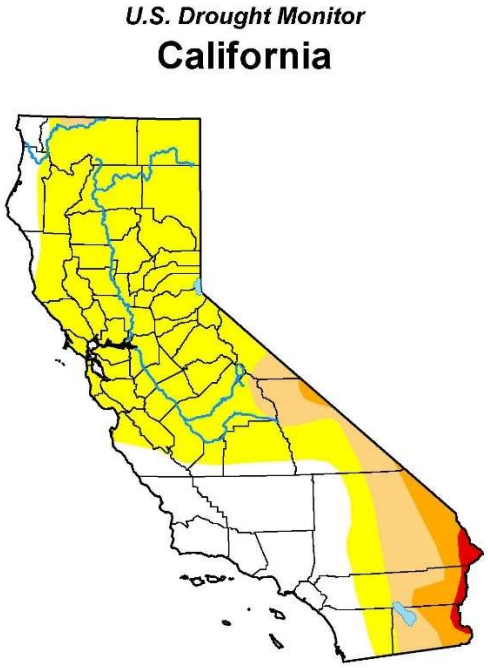
The second graph, "PWD Monthly and Cumulative Water Production Saving Percentage (2022-24 vs. 2020)," illustrates the difference between each month in 2022-

24 and 2020. Less production, or savings in 2022-24 is shown in blue and more production is shown in red. Despite ending manditory conservation measures in March 2023, our customers have only recently started using more water due to the high temperatures last summer. The cummulative water savings for this time period is 11.2% compared to 2020.





The end of the rainy season and the late summer heat wave led to increasing drought in some areas of California, including Los Angeles County. The status is shown on the following U.S. Drought Monitor illustrations dated November 12, 2024 and January 14, 2025:



November 12, 2024
(Released Thursday, Nov. 14, 2024)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

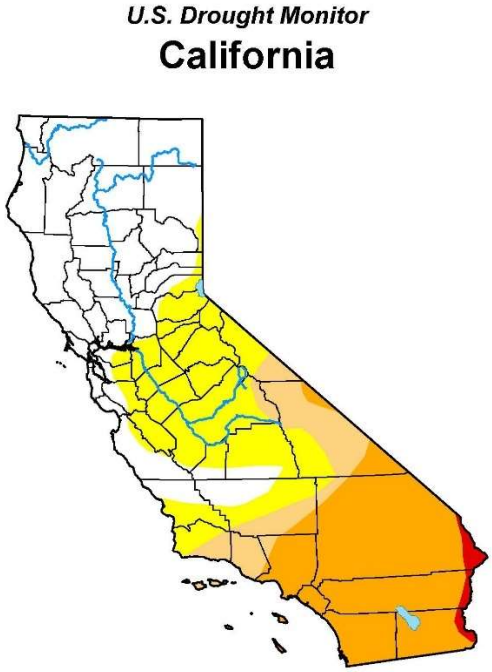
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	25.51	74.49	17.00	5.50	0.95	0.00
Last Week 11-05-2024	25.53	74.47	12.26	4.30	0.00	0.00
3 Months Ago 08-13-2024	77.29	22.71	5.32	0.00	0.00	0.00
Start of Calendar Year 01-02-2024	96.65	3.35	0.00	0.00	0.00	0.00
Start of Water Year 10-01-2024	28.40	71.60	10.67	0.08	0.00	0.00
One Year Ago 11-14-2023	95.32	4.68	0.00	0.00	0.00	0.00

Intensity:
None
D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought
D3 Extreme Drought
D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Author:
Richard Tinker
CPC/NOAA/NWS/NCEP

droughtmonitor.unl.edu



January 14, 2025
(Released Thursday, Jan. 16, 2025)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	39.11	60.89	35.93	28.95	1.06	0.00
Last Week 01-07-2025	39.11	60.89	35.93	10.43	1.06	0.00
3 Months Ago 10-15-2024	24.68	75.32	14.05	4.30	0.00	0.00
Start of Calendar Year 01-07-2025	39.11	60.89	35.93	10.43	1.06	0.00
Start of Water Year 10-01-2024	28.40	71.60	10.67	0.08	0.00	0.00
One Year Ago 01-16-2024	96.65	3.35	0.00	0.00	0.00	0.00

Intensity:
None
D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought
D3 Extreme Drought
D4 Exceptional Drought

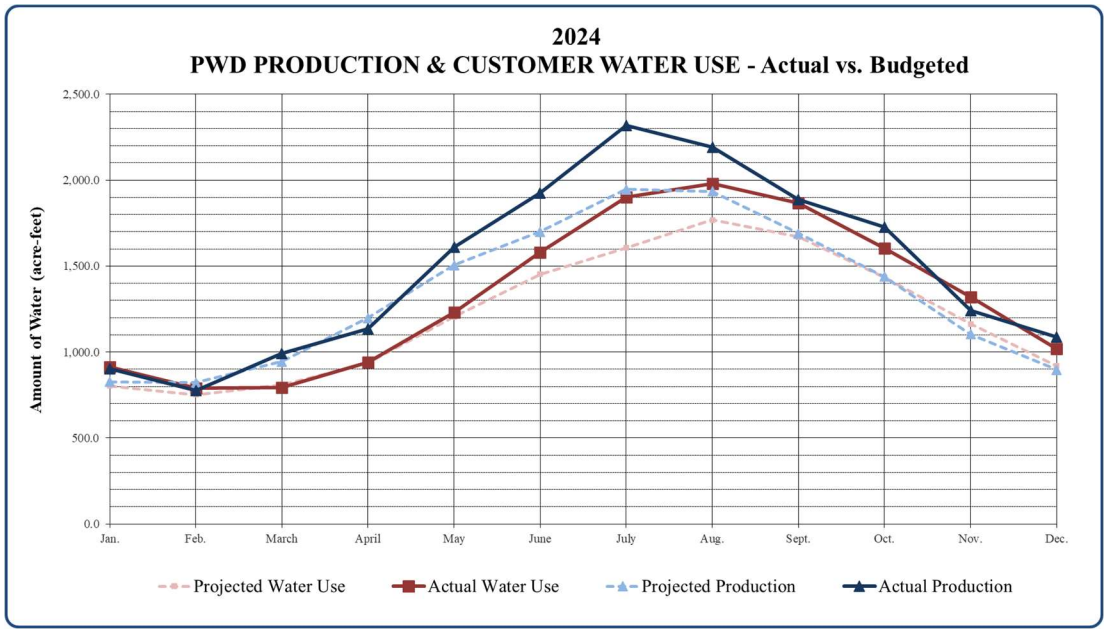
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

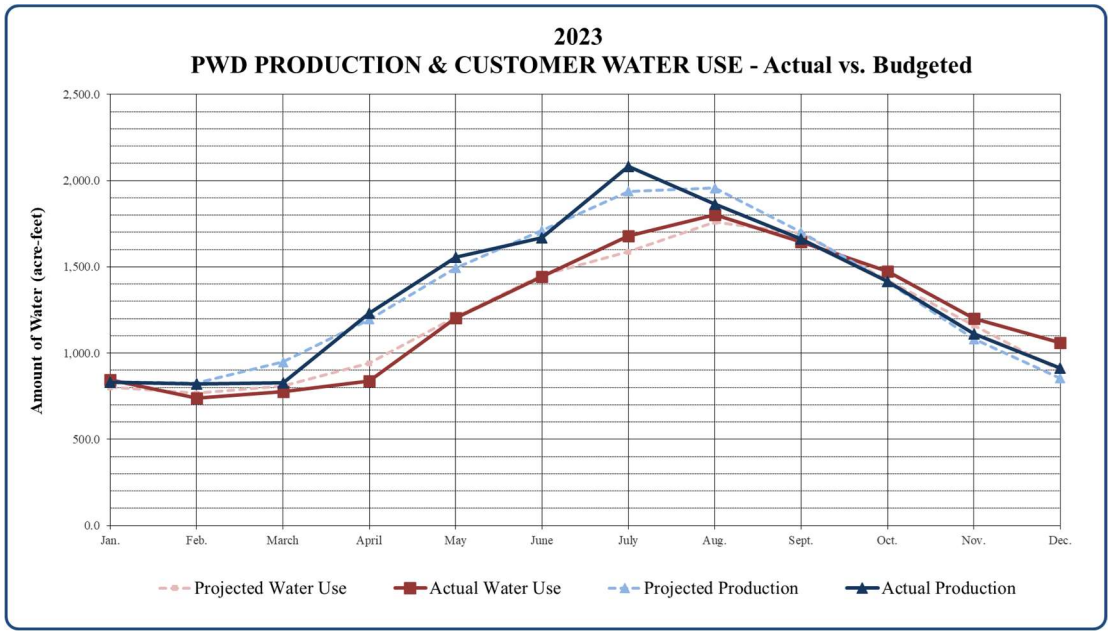
Author:
Brad Pugh
CPC/NOAA

droughtmonitor.unl.edu

2024 and Historical Water Use Information

- The following graph is the actual and projected monthly water consumption and production for 2024. The shape of the projected amounts are based on an average of the prior five years of actual monthly information. The projected total consumption is based on the 2024 Budget amount of 14,500 AF. The actual 2024 use was 15,939 AF. The 2023 graph shows the projected and actual water use for that year.





Other Items

- **Littlerock Sediment Removal Project**

  The Project consists of three phases. The Grade Control Structure is Phase 1 and was completed in January 2020. Phase II is the removal of 1.2 million cubic yards (CY) of sediment from the reservoir. Approximately 58,000 cubic yards of sediment were removed in 2022 using a single year California Fish and Wildlife permit. Staff continues to work with Aspen Environmental to secure all the necessary permits for multi-year sediment removal. No sediment was removed in 2023 due to having a full reservoir through the end of the year. No sediment will be removed this year either due to the amount of water remaining in the reservoir after reaching the maximum diversion amount.

  Other planned maintenance includes removing debris on the upstream side of the Dam and clearing vegetation from the outlet pond downstream of the Dam.

- **Pure Water AV Project**

  The District's goal of using recycled water for a reliable potable water supply is advanced water treatment and groundwater augmentation. The project is called Pure Water AV. The program management firm assisting the District with the Project is Stantec. Current activities include management of the construction contract with W. M. Lyles for the Demonstration Facility, refining the funding strategy for the full-sized Project, and working on potential grants.

  Staff is working with the Sanitation Districts of Los Angeles County, District 20 (LASD), and the City of Palmdale as collaborators or partners in the Project. Pure Water AV will put the already highly treated tertiary recycled water to a higher beneficial use and satisfies LACSD's goals for use of the water. The City may be interested in the Project for the potential benefits to the area's parks and landscaping during droughts without having to expand the current purple pipe distribution system.

  Related activities include the design, funding, and construction of a recycled water pipeline in Avenue Q from 30th Street East to the future demonstration facility. This pipeline will also provide additional access to recycled water for construction and Palmdale SOAR High School as a potential irrigation customer.

  This project is funded by a state grant, PRWA, and PWD. The construction contract was awarded to American Pipeline Services on May 13, 2024. They are currently moving the bulk water dispenser, utility connections for the Demonstration Facility, and began

work on the pipeline in late October. The pipeline is projected to be complete in February 2025.

- **Upper Amargosa Creek Recharge Project**
  The Project's construction is complete. The Project partners, City of Palmdale, LA County Waterworks, and AVEK, are working toward finalizing the operation and maintenance agreement. The recharge yield in 2023 was very disappointing and will also be discussed to improve it in the future. Additionally, the City of Palmdale also notified the Project partners about the mitigation requirements and costs in 2021. Preliminary costs were stated at that time. However, there has not been any further action on the mitigation activities or finalizing the operation and maintenance agreement.

- **Littlerock Creek Recharge Project**
  AVEK, LCID, and the District had an agreement with DWR and the AV Watermaster Engineer for a pilot project to use Littlerock Wash to recharge available Article 21, beyond the District's Table "A", SWP water in 2023. Due to the availability of Article 21 water until July 2023, a total of 8,055 AF was recharged through this program. 2,000 AF was banked this way in 2024. Draft environmental work is complete to allow this as an ongoing recharge project.

- **2022 Strategic Water Resources Plan Update**
  It looks at the water demands and supplies through 2050, identifies packages of projects to provide additional water supplies, looks at how they will be financed, and will ultimately be used to determine "Water Supply" fees within the Capital Improvement Fees paid by new water service connections. The Final E.I.R. and Strategic Water Resources Plan was adopted at a special meeting on December 16, 2024. Staff will follow-through and bring updated fees to the Board for approval in February 2025.

- **Delta Conveyance Project**
  Delta Conveyance Design and Construction Authority (DCA) is a joint power authority responsible for the environmental, design, and engineering of the Project and works with the Department of Water Resources (DWR) on the Project. The Board includes two seats for the East Branch, Class 8, of the California Aqueduct. The Class 8 agencies are AVEK, PWD, Littlerock Creek Irrigation District (LCID), Mojave Water Agency (MWA), Crestline-Lake Arrowhead Water Agency, San Gabriel Valley Municipal Water District, San Bernardino Valley Municipal Water District (SBVMWD), San Gorgonio Pass Water Agency, Desert Water Agency, and Coachella Valley Water District (CVWD).

The Delta Conveyance Project (DCP) Final EIR for the Project was completed in December 2023. DWR then certified the document and issued a Notice of Determination naming the Bethany Alternative as the project moving forward. Work has begun to obtain the necessary permits for the project.

The Board of Directors was briefed by DWR and the DCA on the status of the Project and the updated cost estimate and benefit/cost analysis on June 24, 2024. The current cost estimate is $20.12 billion with a benefit/cost ratio of 2.20. Continued participation in funding the District's share on planning and engineering in 2026 and 2027 was approved by the Board at the November 12, 2024 Board meeting.

Organizational Excellence *Train, Perform, Reward*

This initiative includes efforts to restructure staff duties and activities to more efficiently provide service to our customers. The recent highlights are as follows:

- Nearly 80 percent of the District's staff is required to have certifications or licenses issued by the State of California. Many of these have continuing educational requirements which must be met by technical training. The District provides an education reimbursement that can be used by staff for these requirements.

- The District has continued to find ways for internships and training opportunities for college and high school students who are interested in the water industry.

- Staff is beginning to use the telecommuting policy. It allows schedules with a maximum of 25% of time working out of the office.

- An Employee Engagement survey was conducted in November 2023. Information from the survey was compiled, presented to the Personnel Committee and staff, and meetings by staff were held to develop action plans addressing areas identified for improvement in the survey are now completed. The staff Engagement Committee also met to determine an action plan to address the District's overall results. That action plan and all the department plans have been distributed to staff for implementation.

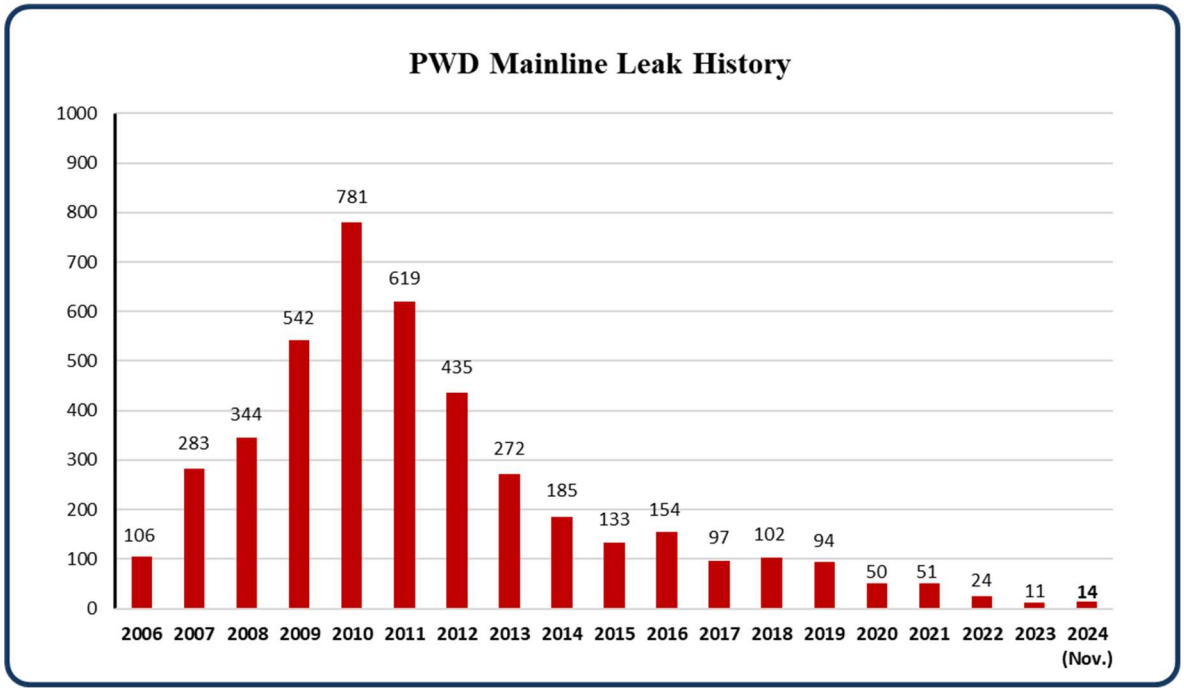
- The Employee Handbook was last completely revised in 2022. Human Resources Director Garcia worked with staff representatives and legal on a set of updates to the Handbook that were approved by the Board at a regular meeting held July 8, 2024.

- Work is beginning to review and make any necessary updates to all the job descriptions. Once complete, they will be the basis of a salary survey to compare the compensation for positions in similar agencies.

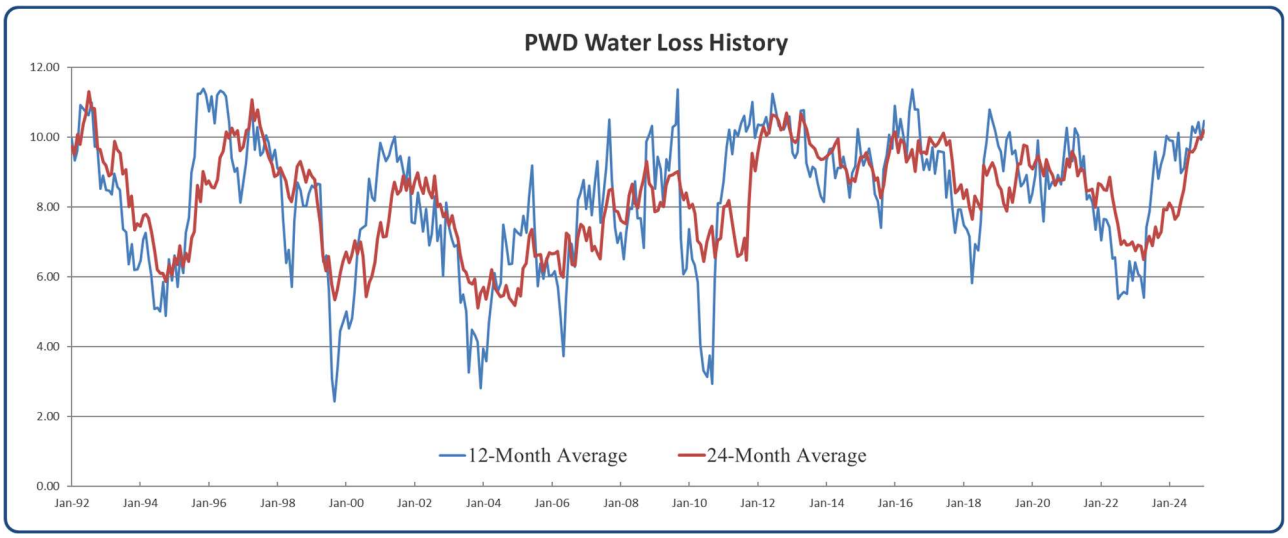
Systems Efficiency *Independence, Technology, Research*

This initiative largely focuses on the state of the District's infrastructure. The recent highlights are as follows:

- The effects of the District's past efforts in replacing failing water mains can be seen in the reduced number of mainline leaks. This is illustrated in the following chart titled "PWD Mainline Leak History." These were fourteen mainline leaks and 66 service line leaks through November 30, 2024.



- The positive effect of both water main and water meter replacement programs is also shown on the chart titled "PWD Water Loss History." The running average for water loss is approximately 10%.



- Battery arrays for backup power are operational at four booster facilities. This program was funded and managed by the California Public Utilities Commission. These batteries are located at Well 5, the 3M booster site, the 45th Street Booster Station, and the Underground Booster Station. Staff is working with Terra Verde to make sure these systems are managed correctly.

- The District approved two solar PV projects to provide energy for wells, the Clearwell booster, and the Leslie O. Carter Water Treatment Plant in December 2022. One will be located north of the maintenance yard and will provide power for a set of wells. The other will be located between Avenue S and Avenue R-8 on the west side of the railroad tracks. It will provide power for the Clearwell booster and Leslie O. Carter Water Treatment Plant. Both of these facilities are currently under construction.

  Additionally, PV solar companies are expressing an interest in vacant District-owned parcels. Staff and the attorney's office worked through State requirements regarding the sale or long-term lease of vacant land to allow the parcels to be used in this way.

- The Resources and Facilities Committee and Board approved contracts earlier this year to address improvements needed for the 6 Million Gallon (6M) tank used as the Clearwell for treated water from the Leslie O. Carter Water Treatment Plant. Tank Industry Consultants (TIC) was hired by the District a few years ago to inspect the District's tanks, including the 6M. The executive summary of their 2022 report was distributed to the Board on April 12, 2023 and is the basis of the awarded work.

  Staff has completed some of TIC's recommendations. Other recommendations will be addressed when possible until the 6M can be taken out of service. This will be

possible after the new 2950' booster station at the 3M tank is completed and the 3M can be used as the Clearwell. Meanwhile, staff is ensuring the 6M is operating safely. This includes removing the baffle curtain in 2023 due to finding pieces of it in transmission mains.

Financial Health and Stability *Strength, Consistency, Balance*

- Staff worked with RDN on the 2024 Water Rate Study Report. The initial results were presented to the Board at the regular meeting held August 12, 2024. The report was finalized, presented, and approved by the Board at a special meeting on September 16, 2024. After two workshops, the Board approved the 2024 Water Rate Study and water rates for 2025 through 2029 at the special meeting held on November 4, 2024.

- The District successfully closed the EPA WIFIA Loan for the Pure Water AV Demonstration Facility in June. This, and the 2024 Series Revenue Bonds, ensure funding for the Demonstration Facility construction.

- The District is seeking assistance from the State's SAFER Program to provide water service to the Alpine Springs Mobile Home Park on Sierra Highway. It has stopped using its well due to poor water quality, has several health violations, and now relies on hauled water. This will be considered a consolidation as the Alpine Springs MHP is currently a separate public water system.

  Maria Kennedy, Kennedy Communications, is experienced with these programs and is contracted with the District to help accomplish this. A grant agreement is now in place to fund water hauling until the connection to the District is approved by the State, constructed, and operational. An extension of this agreement for 2025 has been submitted to the State.

  The second draft engineering report was released on August 2. 2024 that incorporated comments from the June draft report. District staff provided comments and answered questions related to them. The report was finalized in October and is an important step towards the State's funding for the consolidation.

Regional Leadership *Engage, Lead, Progress*

This initiative includes efforts to involve the community, be involved in regional activities, and be a resource for other agencies in the area. The recent highlights are as follows:

- Activities of the Palmdale Recycled Water Authority (PRWA), AV Integrated Regional Water Management Plan (IRWMP), and Antelope Valley State Water Contractors Association (AVSWCA) have continued. The District has leadership positions in these organizations. District staff is active in the local chambers, AV EDGE, regional human resources, and public information organizations. This includes the recent AV EDGE efforts to help coordinate agencies to allow several large developments to move forward.

- The PRWA Board consists of two Palmdale City Councilmembers, two PWD Board Members, and a public director, Zakeya Anson. The public director position was advertised for 2025, and applicants will be presented to the PRWA Board in February. Construction of new purple pipes with PRWA is on hold as the District works on the Pure Water AV Project. However, PRWA did approve partial funding of the Avenue Q purple pipe project for construction water access and urban irrigation.

- The "PWD Water Ambassador Academy" (WAA) was held in April 2024. A one-day Junior WAA for high school students from Pete Knight High School was also held on October 9, 2024.

- The District and other members of the Public Water Agencies Group (PWAG) share the services of an Emergency Preparedness Coordinator. This approach also helped the District successfully comply with the America's Water Infrastructure Act (AWIA) of 2018 and respond to the COVID-19 event. It has also been critical in developing mutual aid agreements and more universal equipping of mobile generators.

- Staff has taken a lead role in developing and implementing a valley-wide mutual aid agreement for agencies and mutual water companies.

- **United Water Conservation District Memorandum of Understanding**

  The District and United Water Conservation District (United) approved a memorandum of understanding (MOU) to work cooperatively on projects where our interests overlap. These include internships and cooperation with community colleges, combined recreational funding for Piru and Littlerock Reservoir recreational improvements, and assistance and funding of advanced treatment of recycled or brackish water for potable use projects.

There have been several meetings between District staff and United Human Resources staff to discuss apprenticeship programs, intern programs, and work with three community college districts to support water-related curriculum. The first action item from these meetings was the funding of PWD interns for 2022. Participation in interview panels and the development of a mutual aid agreement are also being done.

Recreation staff from United met with District staff and visited the Littlerock Recreation Area in March. They provided good advice and input on a rough plan for helping the Area open at some point. Staff worked with the Angeles National Forest (ANF) as the first step in clearing the prior recreational concessionaire's property in the recreational area. All the property now belongs to the ANF. A hazardous material survey is being funded by the District's existing deposit to begin the process of clearing the site.

Several other meetings have been held regarding the use of available State Water Project (SWP) supplies. District and United staff are working with other East Branch SWP contractors on ways to recategorize water and avoid having water go unused. This is expected to make additional water available for United and the District. Staff also collaborated with United on legislative issues and completed a 2,000 AF SWP exchange agreement in 2023.

Additional coordination will also be focused on both agencies' advanced water treatment projects. The United project will treat brackish groundwater for potable use by the military. The PWD project, Pure Water AV, will treat tertiary water for potable use by our customers. Once Pure Water AV is more established, joint meetings with state and federal representatives will be held to obtain funding assistance.

The District also recently supported United's concerns and comments on potential changes to the designation of Piru Creek by the Angeles National Forest. These changes could affect the delivery of State Water Project Water to United, including exchanges with the District. A United facility tour was held on July 29, 2024 to assist newer directors for both agencies in understanding each district's operations.

Customer Care, Advocacy, and Outreach *Promote, Educate, Support*

This initiative includes efforts to better serve our customers. The recent highlights are as follows:

- Applications for 2025 will be accepted beginning in November 2024. The Rate Assistance Program typically reaches its capacity in February. Staff continually monitors the Program for openings. The Board approved changes to the program in 2023 and it provided assistance to 700 customer accounts in 2024.

- Staff successfully conducted virtual coffee meetings with Directors and their constituents, online "Let's Talk H2O" meetings, issued regular internal and public newsletters, coordinated drive-through giveaways for customers, an in-person customer appreciation day, monitored and maintained the District's social media, and assisted with information for the current drought. In-person workshops have also been held.