



S A W P A

SANTA ANA WATERSHED PROJECT AUTHORITY

11615 Sterling Avenue, Riverside, California 92503 • (951) 354-4220

This meeting will be conducted in person at the addresses listed below. As a convenience to the public, members of the public may also participate virtually using one of the options set forth below. Any member of the public may listen to the meeting or make comments to the Commission using the call-in number or Zoom link. However, in the event there is a disruption of service which prevents the Authority from broadcasting the meeting to members of the public, the meeting will not be postponed or rescheduled but will continue without remote participation. The remote participation option is provided as a convenience to the public and is not required. Members of the public are welcome to attend the meeting in-person.

Meeting Access Via Computer (Zoom):	Meeting Access Via Telephone:
<ul style="list-style-type: none"> • https://sawpa.zoom.us/j/85422171333 	<ul style="list-style-type: none"> • 1 (669) 900-6833
<ul style="list-style-type: none"> • Meeting ID: 854 2217 1333 	<ul style="list-style-type: none"> • Meeting ID: 854 2217 1333

REGULAR COMMISSION MEETING TUESDAY, FEBRUARY 18, 2025 – 9:30 A.M.

Santa Ana Watershed Project Authority
11615 Sterling Avenue
Riverside, CA 92503

and

601 N. Ross Street, Room 327
Santa Ana, CA 92701

AGENDA

1. CALL TO ORDER/PLEDGE OF ALLEGIANCE

2. ROLL CALL

3. PUBLIC COMMENTS

Members of the public may address the Commission on items within the jurisdiction of the Commission; however, no action may be taken on an item not appearing on the agenda unless the action is otherwise authorized by Government Code §54954.2(b).

Members of the public may make comments in-person or electronically for the Commissions' consideration by sending them to publiccomment@sawpa.gov with the subject line "Public Comment". Submit your electronic comments by 5:00 p.m. on Monday, February 17, 2025. All public comments will be provided to the Chair and may be read into the record or compiled as part of the record. Individuals have a limit of three (3) minutes to make comments and will have the opportunity when called upon by the Commission.

4. ITEMS TO BE ADDED OR DELETED

Pursuant to Government Code §54954.2(b), items may be added on which there is a need to take immediate action and the need for action came to the attention of the SAWPA Commission subsequent to the posting of the agenda.

5. CONSENT CALENDAR

All matters listed on the Consent Calendar are considered routine and non-controversial and will be acted upon by the Commission by one motion as listed below.

- A. APPROVAL OF MEETING MINUTES: FEBRUARY 4, 20257
Recommendation: Approve as posted.

B. TREASURER’S REPORT: DECEMBER 2024.....15
Recommendation: Approve as posted.

6. NEW BUSINESS

A. AMENDMENT TO THE OWOW STEERING COMMITTEE GOVERNANCE DOCUMENT TO INCLUDE SAN BERNARDINO COUNCIL OF GOVERNMENTS (CM#2025.13).....21

Presenter: Jeff Mosher

Recommendation: To approve the amendment to the Santa Ana IRWMP “One Water One Watershed” Governance document dated December 3, 2024, to rename the San Bernardino Association of Governments (SANBAG) to the San Bernardino Council of Governments (SBCOG).

B. COMMISSION MEETINGS DURING LOBBY CONSTRUCTION (SECURITY IMPROVEMENTS AND ADA UPGRADES) (CM#2025.14)27

Presenter: David Ruhl

Recommendation: Receive and file.

C. SANTA ANA RIVER WATERSHED CLIMATE ADAPTATION AND RESILIENCE PLAN –CONSULTANT SELECTION (CM#2025.15).....29

Presenter: Rachel Gray

Recommendation: To authorize the General Manager, or his designee, to execute the following:

1. General Services Agreement with Woodard and Curran; and,
2. Task Order No. W&C376-01 with Woodard and Curran for an amount not to exceed \$620,000, which includes optional tasks for which SAWPA staff will negotiate the scope and fee proposal, to develop the Santa Ana River Watershed Climate Adaptation and Resilience Plan.

7. INFORMATIONAL REPORTS

Recommendation: Receive for information.

A. CASH TRANSACTIONS REPORT – DECEMBER 2024145
Presenter: Karen Williams

B. INTER-FUND BORROWING – DECEMBER 2024 (CM#2025.16)151
Presenter: Karen Williams

C. PERFORMANCE INDICATORS/FINANCIAL REPORTING – DECEMBER 2024 (CM#2025.17)157
Presenter: Karen Williams

D. PROJECT AGREEMENT 25 – OWOW FUND – FINANCIAL REPORT, NOVEMBER 2024.....179
Presenter: Karen Williams

E. PROJECT AGREEMENT 25 – OWOW FUND – FINANCIAL REPORT, DECEMBER 2024.....183
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H. STATE LEGISLATIVE REPORT195
Presenter: Jeff Mosher

I. GENERAL MANAGER REPORT201
Presenter: Jeff Mosher

J. CHAIR’S COMMENTS/REPORT

K. COMMISSIONERS’ COMMENTS

L. COMMISSIONERS’ REQUEST FOR FUTURE AGENDA ITEMS

8. CLOSED SESSION

There were no Closed Session items anticipated at the time of the posting of this agenda.

9. ADJOURNMENT

PLEASE NOTE:

Americans with Disabilities Act: If you require any special disability related accommodations to participate in this meeting, call (951) 354-4220 or email svilla@sawpa.gov 48-hour notification prior to the meeting will enable staff to make reasonable arrangements to ensure accessibility for this meeting. Requests should specify the nature of the disability and the type of accommodation requested.

Materials related to an item on this agenda submitted to the Commission after distribution of the agenda packet are available for public inspection during normal business hours at the SAWPA office, 11615 Sterling Avenue, Riverside, and available at www.sawpa.gov, subject to staff’s ability to post documents prior to the meeting.

Declaration of Posting

I, Sara Villa, Clerk of the Board of the Santa Ana Watershed Project Authority declare that on February 13, 2025, a copy of this agenda has been uploaded to the SAWPA website at www.sawpa.gov and posted at SAWPA’s office at 11615 Sterling Avenue, Riverside, California.

2025 SAWPA Commission Meetings/Events

First and Third Tuesday of the Month

(NOTE: All meetings begin at 9:30 a.m., unless otherwise noticed, and are held at SAWPA.)

January	February
1/7/25 Commission Workshop [cancelled]	2/4/25 Commission Workshop
1/21/25 Regular Commission Meeting	2/18/25 Regular Commission Meeting
March	April
3/4/25 Commission Workshop	4/1/25 Commission Workshop
3/18/25 Regular Commission Meeting	4/15/25 Regular Commission Meeting
May	June
5/6/25 Commission Workshop	6/3/25 Commission Workshop
5/20/25 Regular Commission Meeting	6/17/25 Regular Commission Meeting
5/13 – 5/15/25 ACWA Spring Conference, Monterey, CA	
July	August
7/1/25 Commission Workshop	8/5/25 Commission Workshop
7/15/25 Regular Commission Meeting	8/19/25 Regular Commission Meeting
September	October
9/2/25 Commission Workshop	10/7/25 Commission Workshop
9/16/25 Regular Commission Meeting	10/21/25 Regular Commission Meeting
November	December
11/4/25 Commission Workshop	12/2/25 Commission Workshop
11/18/25 Regular Commission Meeting	12/16/25 Regular Commission Meeting
	12/2 – 12/4/25 ACWA Fall Conference, San Diego, CA

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SAWPA COMPENSABLE MEETINGS

In addition to Commission meetings, Commissioners and Alternate Commissioners will receive compensation for attending the meetings listed below, pursuant to the Commission Compensation, Expense Reimbursement, and Ethics Training Policy.

IMPORTANT NOTE: These meetings are subject to change. Prior to attending any meetings listed below, please confirm meeting details by viewing the website calendar using the following link:

<https://sawpa.gov/sawpa-calendar/>

MONTH OF: FEBRUARY

DATE	TIME	MEETING DESCRIPTION	LOCATION
2/4/25	8:30 AM	PA 23 Committee Mtg	CANCELLED
2/4/25	10:00 AM	PA 24 Committee Mtg	Hybrid (SAWPA & Virtual/Teleconference)
2/20/25	4:00 PM	LESJWA Board of Directors Mtg	CANCELLED
2/27/25	11:00 AM	OWOW Steering Committee Mtg	Hybrid (SAWPA & Virtual/Teleconference)

MONTH OF: MARCH

DATE	TIME	MEETING DESCRIPTION	LOCATION
3/3/25	9:30 AM	Lake Elsinore/Canyon Lake TMDL Task Force Mtg	Virtual/Teleconference
3/4/25	10:00 AM	PA 24 Committee Mtg	Hybrid (SAWPA & Virtual/Teleconference)
3/6/25	1:30 PM	MSAR TMDL Task Force Mtg	Virtual/Teleconference
3/11/25	8:30 AM	PA 22 Committee Mtg	CANCELLED
3/20/25	1:30 PM	LESJWA Board of Directors Mtg (Special Mtg)	Hybrid (Launch Pointe Recreation Destination, 32040 Riverside Drive, Lake Elsinore, CA 92530 & Virtual/Teleconference)

Please Note: We strive to ensure the list of Compensable Meetings set forth above is accurate and up-to-date; the list is compiled based on input from SAWPA staff and Department Managers regarding meeting purpose and content.

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**SAWPA COMMISSION
REGULAR MEETING MINUTES
February 4, 2025**

COMMISSIONERS PRESENT

Mike Gardner, Chair, Western Municipal Water District
Gil Botello, Vice Chair, San Bernardino Valley Municipal Water District
Philip E. Paule, Secretary-Treasurer, Eastern Municipal Water District
Jasmin A. Hall, Inland Empire Utilities Agency
Denis Bilodeau, Orange County Water District [via – zoom]

COMMISSIONERS ABSENT

None

ALTERNATE COMMISSIONERS PRESENT; NON-VOTING

T. Milford Harrison, San Bernardino Valley Municipal Water District
David Slawson, Eastern Municipal Water District

STAFF PRESENT

Jeff Mosher, Karen Williams, David Ruhl, Rick Whetsel, Rachel Gray, Marie Jauregui, Sara Villa, Dean Unger, John Leete, Alison Lewis, Lucas Gilbert, Emily Fuentes, Natalia Gonzalez

OTHERS PRESENT

Thomas S. Bunn, Lagerlof, LLP; Joe Mouawad, Eastern Municipal Water District; Nick Kanetis, Eastern Municipal Water District; John Kennedy, Orange County Water District; Fred Jung, Orange County Water District; Lisa Haney, Orange County Water District; Carly Pierce, Western Municipal Water District; Adekunle Ojo, San Bernardino Valley Municipal Water District; Theresa A. Dunham, Kahn, Soares & Conway, LLP; Christopher J. Brown, C.J. Brown & Company

The Regular Meeting of the Santa Ana Watershed Project Authority Commission was called to order at 9:30 a.m. by Chair Mike Gardner on behalf of the Santa Ana Watershed Project Authority, 11615 Sterling Avenue, Riverside, California, and Denis Bilodeau at 601 N. Ross Street, Room 327, Santa Ana, CA 92701.

1. CALL TO ORDER

2. ROLL CALL

An oral roll call was duly noted and recorded by the Clerk of the Board.

3. PUBLIC COMMENTS

There were no public comments; there were no public comments received via email.

4. ITEMS TO BE ADDED OR DELETED

There were no items to be added or deleted.

5. CONSENT CALENDAR

A. APPROVAL OF MEETING MINUTES: JANUARY 21, 2025

Recommendation: Approve as posted.

MOVED, to approve the Consent Calendar as posted.

Result:	Adopted by Roll Call Vote
Motion/Second:	Hall/Paule
Ayes:	Bilodeau, Botello, Gardner, Hall, Paule
Nays:	None
Abstentions:	None
Absent:	None

6. **NEW BUSINESS**

A. **ROTATION OF OFFICERS AND COMMISSION APPOINTMENTS (CM#2025.8)**

Jeff Mosher provided a report on the rotation of officers and Commission appointments. SAWPA Resolution No. 355 calls for the rotation of officers each odd-numbered year among the member agencies. In keeping with the historical rotation among the member agencies the Chair would be Commissioner Mike Gardner of Western Municipal Water District, the Vice Chair would be Commissioner Gil Botello of San Bernardino Valley Municipal Water District, and the Secretary-Treasurer would be Commissioner Philip E. Paule of Eastern Municipal Water District.

Mr. Mosher noted the other Commission appointments is the One Water One Watershed (OWOW) Steering Committee and the Lake Elsinore and San Jacinto Watersheds Authority (LESJWA) Board of Directors.

The OWOW Steering Committee membership is comprised of eleven (11) individuals from three counties (Riverside, San Bernardino, and Orange) and two members of the SAWPA Commission. In accordance with Resolution No. 2018-1, appointed to the OWOW Steering Committee is the Commissioner from the member agencies whose board member has been appointed as Vice Chair (Gil Botello) and Secretary-Treasurer (Philip E. Paule), with the Vice Chair serving as the convener.

The Commission is required by the Joint Exercise of Powers Agreement creating LESJWA to appoint two SAWPA Commissioners (primary and alternate) to LESJWA's Board of Directors to represent SAWPA for a two-year term. The current primary representative is Brenda Dennstedt and Mike Gardner as the alternate representative, and both are willing to continue to serve in the role. The election of officers may be conducted by a single blanket motion for all three recommended appointments.

Vice Chair Mike Gardner stated that there is a slate presented and if someone wishes to make a motion for the slate or if someone prefers to modify the slate and/or address the offices individually. Commissioner Botello made the motion as presented and commended Commissioner Brenda Dennstedt as the LESJWA Chair and fully supports the decision for her to remain in the role, Commissioner Philip E. Paule second the motion.

MOVED, the following:

- 1) Authorize the rotation of officers in accordance with the historical rotation provisions of Resolution No. 355, and appoint Mike Gardner as Commission Chair, Gil Botello as Commission Vice Chair, and Philip E. Paule as Secretary-Treasurer; and
- 2) Acknowledge the rotation of representatives to the OWOW Steering Committee and appoint Gil Botello and Philip E. Paule, with Gil Botello serving as the Convener; and
- 3) Adopt Resolution No. 2025-1 appointing Brenda Dennstedt as the primary representative and Mike Gardner as the alternate representative to the Lake Elsinore

and San Jacinto Watersheds Authority (LESJWA) Board of Directors as the SAWPA representatives.

Result:	Adopted by Roll Call Vote
Motion/Second:	Botello/Paule
Ayes:	Bilodeau, Botello, Gardner, Hall, Paule
Nays:	None
Abstentions:	None
Absent:	None

B. COMMISSIONER COMPENSATION (CM#2025.9)

Chair Mike Gardner provided a report on the Commissioner Compensation. The current per day of service compensation amount is \$260. In accordance with Resolution No. 2017-01, the compensation amount will automatically increase by 5% (from \$260 to \$270) effective January 2025. Alternatively, the Commission could adopt Resolution No. 2025-2 prohibiting the automatic increase of 5% in the per day of service rate effective January 2025 and maintain the current rate of \$260.

No action was taken, allowing the per day of service rate to increase automatically from \$260 to \$270 effective January 2025.

C. AUDIT SERVICES CONTRACT EXTENSION (CM#2025.10)

Karen Williams provided a report on the contract extension for SAWPA's audit services. For the past three years, SAWPA has worked with C.J. Brown and Company as the audit firm, which also oversees LESJWA audit. The contract with C.J. Brown and Company was initially set for a three-year term, with an option to extend for two additional years. With Karen Williams retiring at the end of the year and bringing in a new Director of Finance, the first year with a new auditor would be quite labor-intensive. It is recommended to keep the current auditor for the next two years so the new Director can focus on their learning curve at SAWPA. After the two years, an RFP for a new audit firm could be considered. Ms. Williams noted the recommendation is to extend the audit contract with C.J. Brown for two years.

Chris Brown of C.J. Brown and Company thanked SAWPA staff and the Commission for their consideration. The audit has been successful over the past few years, and they are eager to maintain the partnership moving forward.

MOVED, to authorize the issuance of a Task Order with C.J. Brown & Company, CPAs (formerly Fedak & Brown LLP), for audit services and extend the current contract for an additional two (2) years.

Result:	Adopted by Roll Call Vote
Motion/Second:	Paule/Botello
Ayes:	Bilodeau, Botello, Gardner, Hall, Paule
Nays:	None
Abstentions:	None
Absent:	None

D. SANTA ANA RIVER MITIGATION BANK UPDATE (CM#2025.11)

Jeff Mosher provided a presentation on the Santa Ana River Mitigation Bank update, contained in the agenda packet on pages 69-94.

Mr. Mosher provided a brief overview of the Santa Ana River Mitigation Bank, which is managed by Riverside County Parks, explaining its purpose, goals, and how the funding was originally sourced. The bank generates revenue through the sale of credits used for

mitigation projects in the watershed. There are currently 48 credits remaining, representing approximately \$2 million in potential funding. Historically, these credits have primarily been used for invasive species management, particularly Arundo removal, but we are exploring the possibility of expanding their use to address other invasive species in the watershed.

The bank's original funding source comes from the Proposition 13 State Water Board grant, which allowed SAWPA to purchase 100 credits from the Riverside County Mitigation Bank in 2004, at a cost of \$40,000 per credit. Since then, a total of 52 credits have been sold between 2004 and 2015, and there have been no sales since then. This raises questions about how to effectively utilize the remaining credits and revenue.

The current agreement with Riverside County Parks stipulates that we receive approximately \$44,490 for each credit sold, minus a 2% administrative fee. One ongoing project funded by these credits is the Inland Empire Resource Conservation District's Arundo removal project, which received \$150,000 in funding from the bank and is set to run through 2027.

Currently, SAWPA holds \$670,000 in mitigation bank funding, and the value of the remaining credits is around \$2 million. This gives us a total of \$2.7 million in available funding for Arundo removal and possibly other invasive species mitigation efforts. We are exploring the possibility of generating revenue from the sale of the remaining credits and are in discussions with the Santa Ana Watershed Association (SAWA) to purchase 32 of the credits. This would generate \$1.4 million in revenue, which we plan to use for future mitigation projects. Additionally, we are considering requesting the remaining credits back from Riverside County Parks, which would be about \$643,000 in funding.

The reason for requesting the funding now is due to the ongoing challenges with invasive species like Arundo, and the fact that the credits have not been sold since 2015. We believe it is important to utilize the funds for their original purpose and take advantage of the opportunity to address ongoing mitigation needs in the watershed. While we could leave the remaining credits in the bank and wait for a buyer, there is no certainty about when that might happen.

Commissioner Botello asked what is the upside of doing nothing and leaving the bank as is? Mr. Mosher noted that the credits could be left alone, and the upside is that the developers that need mitigation credits could be purchased. Commissioner Paule raised a concern that there is a dollar amount that has been sitting in the bank since 2015, which means it has not grown or earned any interest over the years.

Commissioner Botello noted that we are not the only ones doing Arundo removal and are we connecting with everyone to make sure we are not replicating the work? Mr. Mosher said that we are considering the possibility of developing a regional collaborative effort for invasive species management. This would allow SAWPA to coordinate with other stakeholders across the watershed and leverage additional funding and resources. A key goal is to optimize Arundo removal efforts and expand the scope of the project to address other invasive species. A collaborative effort could help ensure that projects are aligned and not duplicated, making the most effective use of available funding. A potential list of partners who could be involved in this collaborative effort, including other member agencies, non-profit organizations, conservation districts, and local government entities was referenced and Mr. Mosher noted that staff anticipate continuing engaging with these groups to build consensus around the best approach for invasive species management.

Commissioner Botello referenced the list of potential collaborators on page 82 of the agenda packet and noted that the list is quite comprehensive, which is great. However, he suggests adding a recommendation to include an advisory from a Native American

representative, especially since we will be working within the watershed area, which has a traditional presence. Commissioner Botello also noted that ESRI is doing some incredible work with drone technology and mapping, specifically focusing on the Santa Ana area, and given their expertise and innovative approach, they could be a valuable partner for this project.

Commissioner Bilodeau asked what is the primary method used for Arundo removal, is it glyphosate? Mr. Mosher noted that the method that is used is if it is a large stand of Arundo, that may require more heavy-duty methods like bulldozers. For smaller stands, such as those in the upper watershed, pesticides are still one of the tools for eradication, but they are not the only method.

Commissioner Bilodeau noted that it is important to note that there is a policy decision at OCWD to stop using glyphosate due to the litigation surrounding it, as well as its classification as a potential human carcinogen. We want to avoid using it, especially in large doses within the Santa Ana River watershed, given that it may eventually become part of the drinking water supply.

Chair Mike Gardner noted that the list of potential participating agencies is a sample and not an exclusive list. It represents our current understanding of the key players involved, but we recognize that it could be expanded. For instance, the City of Riverside conducted a significant Arundo removal project about 10-15 years ago, which was done through their fire department. While Riverside Fire is no longer involved, other Riverside agencies are still active and just wanted to ensure that we are not limiting ourselves, as there may be other potential partners or agencies that designate a representative and have not considered.

This item was for information and discussion purposes; no action was taken on Agenda Item no. 6.D.

E. UPDATE ON BASIN MONITORING TASK FORCE – BASIN PLAN AMENDMENTS (CM#2025.12)

Rachel Gray introduced Tess Dunham of Kahn, Soares & Conway, LLP, and she provided a presentation on the Update on Basin Monitoring Task Force – Basin Plan Amendments, contained in the agenda packet on pages 103-109.

Ms. Dunham provided an overview of the Basin Monitoring Program (BMP) Task Force and noted that the BMP consists of water and wastewater agencies from across the watershed. Many of these agencies discharge recycled water into the Santa Ana River, which is then used for drinking water purposes in Orange County, among other uses. The task force focuses on managing salt and nutrients in the region, working to protect both surface water and groundwater resources, including the designated groundwater management zones throughout the area.

The Santa Ana Region Water Quality Control Plan (Basin Plan) serves as a regulatory framework under both the State Porter-Cologne Water Quality Control Act and the Federal Clean Water Act. The Basin Plan outlines water quality standards, identifying the beneficial uses of the region's waterways and setting water quality objectives to preserve these uses. The Basin Plan also includes various control programs aimed at maintaining water quality throughout the region, and it has evolved since its inception in the mid-1970s.

The plan is an essential tool for the Regional Water Quality Control Boards and has regulatory implications, particularly regarding permits for water and wastewater activities. It plays a critical role in regulating discharge into the Santa Ana River and the application of recycled water.

The Salt and Nutrient Management Program was introduced as part of an extensive update in 2004 to manage salt and nutrients in both surface water and groundwater, ensuring that water quality objectives were met. The Santa Ana Region has been recognized as a leader in this field, and its approach has been modeled by other regions. Since the 2004 update, various amendments have been made to align with evolving needs and regulatory requirements. However, some outdated language and procedural gaps have emerged, requiring clarification through new Basin Plan amendments. The key amendment under consideration focusses on Clarifications of Water Quality Objectives, Implementation Updates, Revisions to Compliance Measures, Reflecting Changes in Regulatory Practices, and Updated Implementation of Waste Load Allocations.

Ms. Dunham noted that these amendments aim to be non-controversial and clarifying in nature, helping to ensure that the original objectives of the Basin Plan are preserved and that it reflects the current regulatory landscape. In addition to these technical adjustments, the amendments will also provide updates on other sources of total dissolved solids (TDS) and nitrogen to groundwater, including agricultural practices and dairy operations in the region, which will be incorporated into the Salt and Nutrient Management Plan. The plan's alignment with the State's 2019 Recycled Water Policy will be officially updated, reflecting the Region's commitment to meeting the new regulatory standards set forth by the state. This process ensures the continued protection of water quality in the Santa Ana Region, aligning the Basin Plan with contemporary practices and needs for sustainable water management.

To provide the Regional Water Board with language and an amendment for their consideration, the process begins within the Basin Monitoring Task Force. Initially, working with the task force members and circulating drafts of the proposed amendments to review and provide feedback. Once feedback from the task force is collected, staff collaborate with the Santa Ana Water Board. They have specific steps required for any Basin Plan amendment, including tribal consultation, CEQA requirements, and appropriate notices.

Once the task force is satisfied with the draft amendments and all supporting documents staff work with Regional Water Board staff to finalize, staff will then present it to the Regional Water Board for adoption. Before that, the proposal undergoes management and legal reviews, but the staff rely heavily on the task force and other stakeholders to ensure that the amendments reflect the priorities and needs of those within the watershed.

This item was for information and discussion purposes; no action was taken on Agenda Item no. 6.E.

7. INFORMATIONAL REPORTS

Recommendation: Receive for Information.

A. COMMUNICATIONS REPORT

B. GENERAL MANAGER REPORT

Jeff Mosher noted that he attended the California Association of Sanitation Agencies conference in Palm Springs, and one of the key topics of discussion was PFAS, particularly how it ends up in biosolids. Since our brine line flows through OC San treatment, the PFAS does make its way into their biosolids as well. We are currently in contact with them to understand their plans for managing this issue. They are exploring various options for addressing PFAS in their processes.

Additionally, he will be attending the CALDESAL conference in Temecula, where he will be on a panel discussing the use of the brine line for salinity management and is looking forward to exchanging insights on that topic with other experts.

Mr. Mosher also noted that the Climate Adaptation and Resiliency Plan Request for Proposals received 11 proposals. Staff are currently reviewing the proposals and will be bringing a recommendation to the Commission soon for approval of the selected consultant.

C. CHAIR'S COMMENTS/REPORT

Chair Gardner stated that it is an honor to serve as the Commission Chair.

D. COMMISSIONERS' COMMENTS

Commissioner Botello congratulated Chair Mike Gardner on his appointment and noted that at the last meeting, the strategic planning process was discussed, and he wants to make sure the Commission is included in the discussions moving forward. He understands that a consultant was hired though he would like to review the current vision and mission for the plan and requested a copy of it. Commissioner Botello requests that this commission be actively involved in the process and suggested holding a workshop to discuss the details, allowing them to engage directly with staff on where the agency is headed in terms of its strategic plan. It is important for there to be a collaborative dialogue about the agency's future direction.

Mr. Mosher noted that staff are currently working on a strategic planning effort, and we're having ongoing discussions with the member agencies, especially the General Managers, who have shown strong interest, and the strategic planning effort will be commission driven. The next step involves finalizing the plan. We are still in the process of selecting a consultant and are revising the scope based on the input we received from both the Commission and the General Managers.

Commissioner Paule noted that part of the CALDESAL event is the Eastern Menifee project, and it is a great example of using brackish groundwater to serve the community, and it is impressive that it provides clean water to around 17,000 homes and encouraged everyone to attend.

E. COMMISSIONERS' REQUEST FOR FUTURE AGENDA ITEMS

Commissioner Hall requested an update on the Basin Plan schedule and the overall effort to ensure that we are maintaining an updated plan. Additionally, she would appreciate an update on how SAWPA is collaborating with the various agencies concerning the homeless encampments along the Santa Ana River. Specifically, in any new reports on the impacts of the waste from these encampments and whether they have affected any of our monitoring reports. Are we seeing improvements in our partnerships, and do we have any updated information on the situation? Any current data would be helpful, especially as we anticipate upcoming rain events in the area.

Chair Gardner noted that different agencies have their own local rules regarding homeless encampments and camping, which creates a challenge in coordinating efforts. Each jurisdiction has its own set of rules for what is and is not allowed, and this discrepancy can make it difficult for neighboring agencies to work together effectively. Because of these differences in local laws, it is difficult for agencies to collaborate on a broader scale. While there is a desire to work together, it often is not prioritized highly enough across jurisdictions to create an effective coordinated effort.

8. CLOSED SESSION

There was no closed session.

9. ADJOURNMENT

There being no further business for review, Chair Mike Gardner adjourned the meeting at 10:36 a.m.

Approved at a Regular Meeting of the Santa Ana Watershed Project Authority Commission on Tuesday, February 18, 2025.

Mike Gardner, Chair

Attest:

Sara Villa, Clerk of the Board

*Santa Ana Watershed
Project Authority*



Finance Department

Santa Ana Watershed Project Authority
TREASURER'S REPORT

December 2024

During the month of December 2024, the Agency's actively managed temporary idle cash earned a return of 3.405%, representing interest earnings of \$35,825. Additionally, the Agency's position in overnight funds L.A.I.F. generated \$217,718 in interest, resulting in \$253,543 of interest income from all sources. Please note that this data represents monthly earnings only and does not indicate actual interest received. There were zero (0) investment positions purchased, zero (0) positions sold, two (2) positions matured, and zero (0) positions were called.

This Treasurer's Report is in compliance with SAWPA's Statement of Investment Policy. Based upon the liquidity of the Agency's investments, this report demonstrates the ability to meet customary expenditures during the next six months.

January 7, 2025

Prepared and submitted by:

A handwritten signature in black ink that reads 'Karen Williams'.

Karen L. Williams, Deputy GM/Chief Financial Officer

Santa Ana Watershed Project Authority

INVESTMENT PORTFOLIO - MARKED TO MARKET - UNREALIZED GAINS & LOSSES

December 31, 2024

SAWPA primarily maintains a 'Buy and Hold' investment philosophy, with all investments held by US Bank via a third-party safekeeping contract.

Investment	Security		Purchase	Maturity	Call Date		Yield To	Investment	Market Value	Unrealized	Coupon	Interest	
Type	Type	CUSIP	Dealer	Date	Date	(if appl)	Par Value	Maturity	Cost	Current Month	Gain/(Loss)	Rate	Earned
Agency	FHLB	3130A3GE8	MBS	02-04-20	12-13-24	No Call	\$ -	1.414%	\$ -	\$ -	\$ -	2.750%	\$ 251.83
Agency	FHLB	3130ATHWO	WMS	11-04-22	09-10-27	No Call	\$ 1,000,000.00	4.125%	\$ 991,965.00	\$ 994,914.83	\$ 2,950	4.125%	\$ 3,503.42
Agency	FHLB	3130ATUR6	MBS	06-06-23	12-13-24	No Call	\$ -	4.629%	\$ -	\$ -	\$ -	4.625%	\$ 824.34
Agency	FHLB	3130AWC24	MBS	06-06-23	06-09-28	No Call	\$ 500,000.00	3.889%	\$ 502,505.00	\$ 493,450.48	\$ (9,055)	4.000%	\$ 1,278.58
Agency	FHLB	3130AWN63	WMS	01-25-24	06-30-28	No Call	\$ 1,000,000.00	4.020%	\$ 999,170.00	\$ 990,905.02	\$ (8,265)	4.000%	\$ 1,278.58
Agency	FNMA	3135G0X24	MBS	02-04-20	01-07-25	No Call	\$ 500,000.00	1.398%	\$ 505,380.00	\$ 499,692.57	\$ (5,687)	1.625%	\$ 593.71
Agency	FNMA	3135G05X7	WMS	10-30-20	08-25-25	No Call	\$ 1,000,000.00	0.460%	\$ 995,952.00	\$ 974,951.03	\$ (21,001)	0.375%	\$ 390.68
Agency	USTN	91282CAZ4	WMS	04-19-21	11-30-25	No Call	\$ 1,000,000.00	0.761%	\$ 982,500.00	\$ 965,488.28	\$ (17,012)	0.375%	\$ 646.04
Agency	USTN	91282ZTO	WMS	09-15-21	05-31-25	No Call	\$ 1,000,000.00	0.530%	\$ 989,726.56	\$ 983,554.69	\$ (6,172)	0.250%	\$ 450.29
CD	Beal Bank USA	07371DEV5	MBS	08-17-22	08-12-26	No Call	\$ 245,000.00	3.200%	\$ 245,000.00	\$ 241,672.17	\$ (3,328)	3.200%	\$ 665.86
CD	Synchrony Bank	87164XP34	MBS	08-12-22	08-12-25	No Call	\$ 245,000.00	3.350%	\$ 245,000.00	\$ 243,679.53	\$ (1,320)	3.350%	\$ 74.44
CD	Capital One Bank USA NA	14042TGJ0	MBS	05-25-22	05-25-27	No Call	\$ 246,000.00	3.200%	\$ 246,000.00	\$ 241,467.96	\$ (4,532)	3.200%	\$ 668.58
CD	Morgan Stanley Private Bank	61768UAT4	MBS	11-15-22	11-15-27	11-15-23	\$ 248,000.00	5.000%	\$ 248,000.00	\$ 248,873.83	\$ 874	5.000%	\$ 1,053.15
CD	Prime Alliance Bank	74160NJF8	MBS	11-17-22	11-17-27	05-17-23	\$ 248,000.00	4.950%	\$ 248,000.00	\$ 248,032.36	\$ 32	4.950%	\$ 1,042.62
CD	Cooperative Center FSU	21686MAA6	MBS	12-29-22	12-29-25	No Call	\$ 249,000.00	4.650%	\$ 249,000.00	\$ 250,270.73	\$ 1,271	4.650%	\$ 983.38
CD	Affinity Bank	00833JJA4	MBS	03-17-23	03-17-28	No Call	\$ 248,000.00	4.900%	\$ 248,000.00	\$ 254,854.33	\$ 6,854	4.900%	\$ 1,032.09
CD	Discover Bank	254673ZV7	MBS	03-22-23	03-23-27	No Call	\$ 243,000.00	5.050%	\$ 243,000.00	\$ 248,335.37	\$ 5,335	5.050%	\$ 1,042.24
CD	Global Fed CR UN Alaska	37892MAF1	MBS	05-12-23	05-12-27	No Call	\$ 249,000.00	4.600%	\$ 249,000.00	\$ 252,303.83	\$ 3,304	4.600%	\$ 972.81
CD	UBS Bank USA	90355GDJ2	MBS	05-17-23	05-17-27	No Call	\$ 249,000.00	4.550%	\$ 249,000.00	\$ 252,041.06	\$ 3,041	4.550%	\$ 962.23
CD	BMW Bank of North Americ	05580A2G8	MBS	06-16-23	06-16-26	No Call	\$ 244,000.00	4.600%	\$ 244,000.00	\$ 245,750.23	\$ 1,750	4.600%	\$ 953.27
CD	Barclays Bank Delaware	06740KRW9	MBS	07-26-23	07-28-25	No Call	\$ 243,000.00	5.100%	\$ 243,000.00	\$ 244,157.44	\$ 1,157	5.100%	\$ 1,052.56
CD	Farmers Insurance Group	30960QAS6	MBS	07-26-23	07-27-26	No Call	\$ 248,000.00	5.100%	\$ 248,000.00	\$ 251,904.10	\$ 3,904	5.100%	\$ 1,074.21
CD	Chartway Federal Credit Union	16141BAQ4	MBS	09-08-23	09-08-27	No Call	\$ 248,000.00	5.000%	\$ 248,000.00	\$ 254,263.93	\$ 6,264	5.000%	\$ 1,053.15
CD	Greentate Credit Union	39573LEM6	MBS	09-26-23	09-26-28	No Call	\$ 248,000.00	5.000%	\$ 248,000.00	\$ 257,222.35	\$ 9,222	5.000%	\$ 1,053.15
CD	Empower Fed Credit Union	291916AA2	MBS	09-29-23	09-29-27	No Call	\$ 248,000.00	5.100%	\$ 248,000.00	\$ 255,041.26	\$ 7,041	5.100%	\$ 1,074.21
CD	US Alliance Fed Credit Union	90352RDF9	MBS	09-29-23	09-29-28	No Call	\$ 248,000.00	5.100%	\$ 248,000.00	\$ 258,111.41	\$ 10,111	5.100%	\$ 1,074.21
CD	Numerica Credit Union	67054NBN2	MBS	11-10-23	11-10-26	No Call	\$ 248,000.00	5.550%	\$ 248,000.00	\$ 254,738.27	\$ 6,738	5.550%	\$ 1,169.00
CD	Heritage Community Cr Un	42728MAB0	MBS	11-15-23	11-16-26	No Call	\$ 248,000.00	5.450%	\$ 248,000.00	\$ 254,392.19	\$ 6,392	5.450%	\$ 1,147.93
CD	Members Trust of SW FCU	585899AG2	MBS	01-19-24	01-19-29	No Call	\$ 249,000.00	4.000%	\$ 249,000.00	\$ 249,850.90	\$ 851	4.000%	\$ 845.92
CD	Hughes FCU	444425AL6	MBS	01-29-24	01-29-27	No Call	\$ 249,000.00	4.400%	\$ 249,000.00	\$ 250,935.39	\$ 1,935	4.400%	\$ 930.51
CD	Farmers & Merchants TR	308693BG4	MBS	01-30-24	02-01-27	No Call	\$ 249,000.00	4.150%	\$ 249,000.00	\$ 249,697.70	\$ 698	4.150%	\$ 877.64
CD	Nicolet National Bank	654062LP1	MBS	03-08-24	03-08-29	No Call	\$ 249,000.00	4.250%	\$ 249,000.00	\$ 252,152.35	\$ 3,152	4.250%	\$ 898.79
CD	Medallion Bank	58404DUP4	MBS	03-13-24	03-15-27	No Call	\$ 249,000.00	4.600%	\$ 249,000.00	\$ 252,025.50	\$ 3,026	4.600%	\$ 972.81
CD	Wells Fargo Bank	949764MZ4	MBS	03-12-24	03-12-27	No Call	\$ 249,000.00	4.500%	\$ 249,000.00	\$ 251,547.12	\$ 2,547	4.500%	\$ 951.66
CD	Toyota Financial SGS Bank	89235MPN5	MBS	05-24-24	05-24-29	No Call	\$ 244,000.00	4.600%	\$ 244,000.00	\$ 250,411.59	\$ 6,412	4.600%	\$ 953.27
CD	First Foundation Bank	32026U5U6	MBS	05-22-24	05-22-29	No Call	\$ 244,000.00	4.600%	\$ 244,000.00	\$ 250,409.20	\$ 6,409	4.600%	\$ 953.27
CD	Alliant Credit Union	01882MAD4	MBS	12-30-22	12-30-25	No Call	\$ 248,000.00	5.100%	\$ 248,000.00	\$ 250,364.83	\$ 2,365	5.100%	\$ 1,074.21

Total Actively Invested Funds	\$ 12,923,000.00	\$ 12,890,198.56	\$ 12,917,463.83	\$ 27,265	3.405%	\$ 35,824.65
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Total Local Agency Investment Fund		\$ 57,800,539.84		4.435%	\$ 217,718.01
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Total Invested Cash	\$ 12,923,000.00	\$ 70,690,738.40		4.247%	\$ 253,542.66
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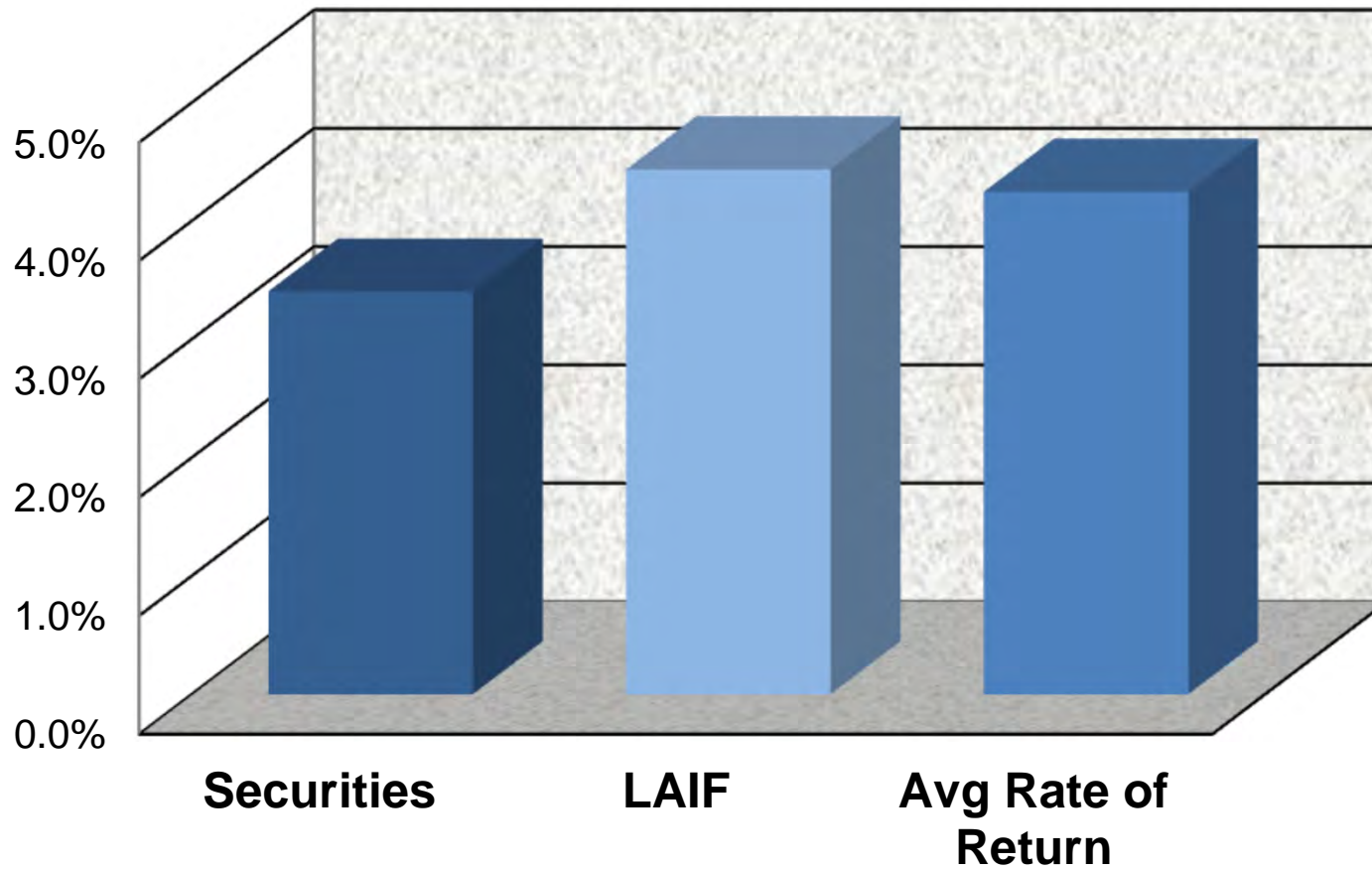
Key to Security Type:

FHLB	= Federal Home Loan Bank
FHLMC	= Federal Home Loan Mortgage Corporation
FNMA	= Federal National Mortgage Association
USTN	= US Treasury Note
CORP	= Corporate Note
CD	= Certificate of Deposit

Key to Dealers:

FCS	= FinaCorp Securities
MBS	= Multi-Bank Securities
MS	= Mutual Securities
SA	= Securities America
TVI	= Time Value Investments
WMS	= Wedbush Morgan Securities

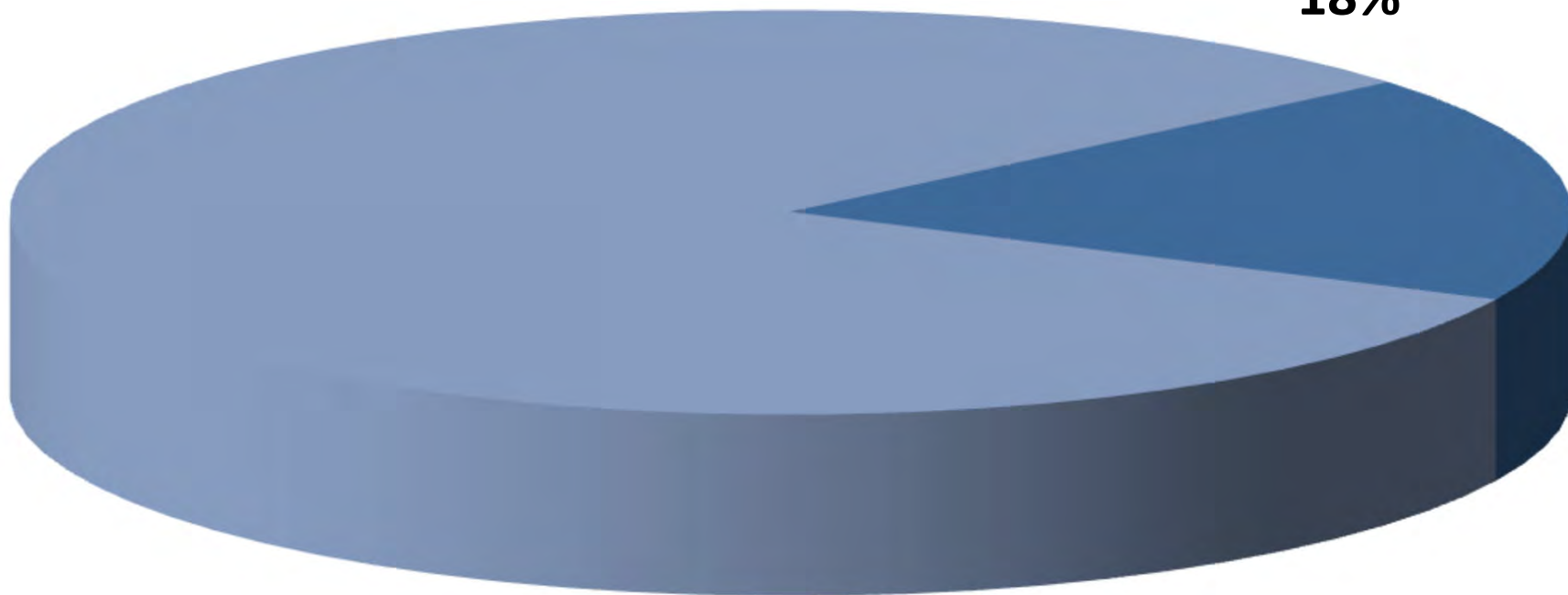
Interest Rate Analysis



Investments

\$70,690,738

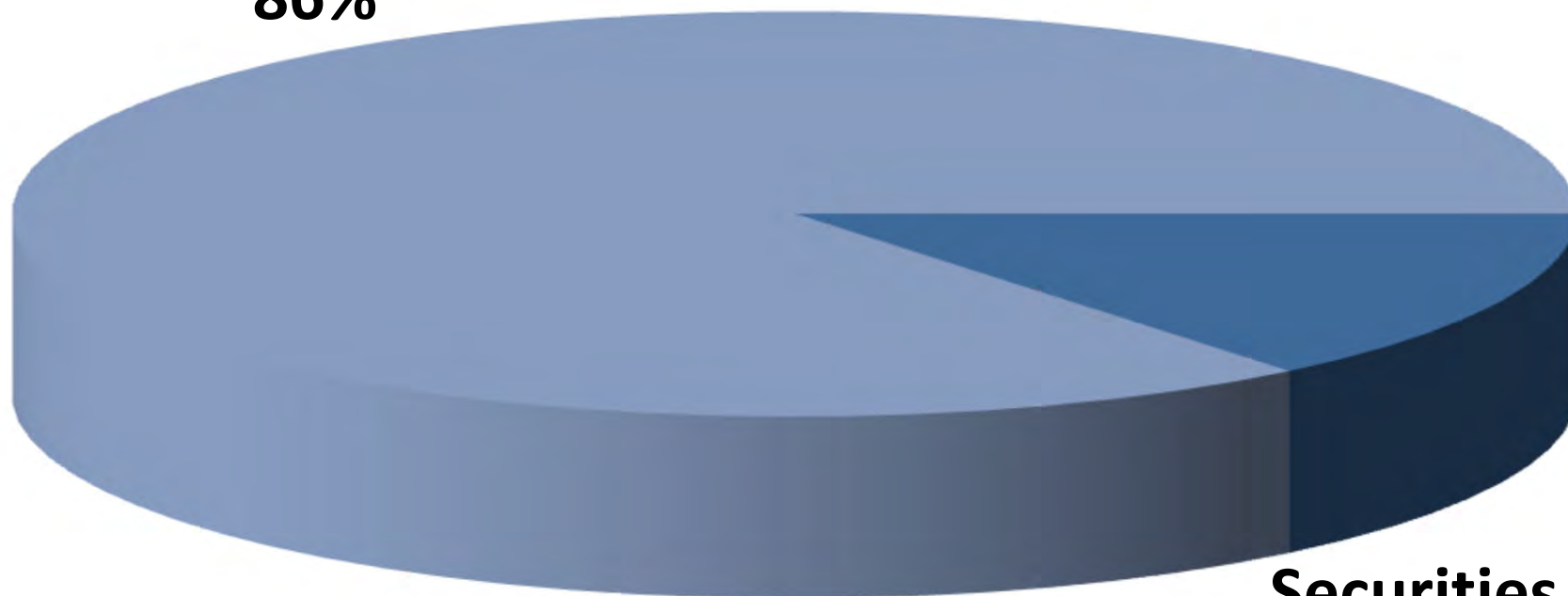
**Securities,
\$12,890,199,
18%**



**LAIF,
\$57,800,540,
82%**

**Interest
\$253,543**

**LAIF,
\$217,718,
86%**



**Securities,
\$35,825,
14%**

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COMMISSION MEMORANDUM NO. 2025.13

DATE: February 18, 2025

TO: SAWPA Commission

SUBJECT: Amendment to the OWOW Steering Committee Governance Document – Include San Bernardino Council of Governments

PREPARED BY: Jeff Mosher, General Manager

RECOMMENDATION

It is recommended that the SAWPA Commission approve the amendment to the Santa Ana IRWMP “One Water One Watershed” Governance document dated December 3, 2024, to rename the San Bernardino Association of Governments (SANBAG) to the San Bernardino Council of Governments (SBCOG).

DISCUSSION

The current OWOW Steering Committee Governance Document lists the San Bernardino Association of Governments (SANBAG) as the entity responsible for appointing an OWOW SC City representative for the County of San Bernardino. However, as of last year, SANBAG amended its Joint Powers Authority Agreement to change its name to the San Bernardino Council of Governments.

SAWPA proposes to amend the OWOW SC Governance Document to reflect the updated organizational structure, specifically to recognize the San Bernardino Council of Governments as the correct entity. Any proposed amendments to the OWOW Governance Document require SAWPA Commission approval.

RESOURCE IMPACTS.

None.

Attachments:

1. Amended Governance Document

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Santa Ana IRWMP “One Water One Watershed” Governance

Revised: ~~February 18, 2025~~ December 3, 2024

In developing the One Water One Watershed (OWOW) Integrated Regional Water Management IRWM Plan (the Plan) for the Santa Ana River, unlike other integrated regional water management planning approaches, every effort has been made to allow the key discussions of major water resource issues, concerns, problems, goals and objectives and potential solutions to originate and be first fully vetted at the stakeholder level – the stakeholders being the local agencies, organizations, and other interested parties within the Santa Ana River Watershed Region. By expanding the involvement and collaboration to the on-the-ground level, greater buy-in and support were expected and realized for this planning development process. Consequently, if one were to ask where the governance originates for the Santa Ana River Watershed Region OWOW process, we believe the identification of issues starts from the grass-roots level, the foundation of a decentralized and collaborative “big tent” approach.

SAWPA Commission

The Santa Ana Watershed Project Authority Commission (the Commission) and SAWPA staff shall be responsible for all administrative oversight for the Plan, and for coordinating all on-going administrative responsibilities associated with its implementation including arranging for meetings of the OWOW Steering Committee, preparing agendas, taking and distributing minutes of the meetings and when directed by the SAWPA General Manager, preparing staff reports, and other related duties. The Commission shall review the Plan for compliance with applicable laws and guidelines. In the event that no issues or inconsistencies with the Plan or project selection process are detected, the Commission shall approve the Plan and the Project Prioritization as submitted by the Steering Committee. Should the Commission determine that the Plan or a specific selected portfolio of projects fails to meet applicable laws and guidelines, it will refer the Plan back to the Steering Committee for further revision and subsequent re-submittal to the Commission for reconsideration and ratification.

OWOW Steering Committee

The OWOW Steering Committee shall be constituted of eleven (11) members from the three counties (Orange County, Riverside and San Bernardino) that are within the Santa Ana River Watershed regional planning area. The Steering Committee members shall serve terms of four (4) years with staggered end dates, as described below. The following describes the composition of the Steering Committee:

- One (1) Supervisor from Orange County;
- One (1) Supervisor from Riverside County;
- One (1) Supervisor from San Bernardino County;
- One (1) Mayor or City Council Member from a City within the Region within Orange County;
- One (1) Mayor or City Council Member from a City within the Region within Riverside County;
- One (1) Mayor or City Council Member from a City within the Region within San Bernardino County;
- Two (2) SAWPA Commission representatives shall be selected by the SAWPA Commission,
- One (1) member of the business community,
- One (1) member of the environmental community, and;
- One (1) member of the Regional Water Quality Control Board.

The SAWPA Commission selected and convened the initial Steering Committee members in coordination with the governmental and non-governmental entities being represented on the Steering Committee.

Steering Committee members may be appointed for multiple terms. *A seated member who loses the status upon which membership on the Steering Committee is based (e.g. leaving an elected office) will continue as a member of the Steering Committee through the balance of that Steering Committee term, or until such time that the entity that selected them selects a new representative.*

Each party shall appoint one (1) member of its governing body to serve on the OWOW Steering Committee as a Committee member and one (1) member to serve as its alternate Committee member. In the absence of the Committee member, the alternate Committee member shall act in their place.

Steering Committee members are selected as follows:

- SAWPA Commission representatives shall be selected by the SAWPA Commission.
- County Supervisors shall be selected by their respective boards
- City representatives shall be selected by a majority vote of the Council of Governments in the respective county:
 - Western Riverside County Council of Governments [WRCOG] – Riverside County;
 - San Bernardino ~~Association~~ Council of Governments [~~SANBAGS~~SBCOG] – San Bernardino County; and
 - Orange County Council of Governments [OCCOG] – Orange County.
- Business and environmental community representatives shall be selected by a majority vote of the eight (8) governmental representatives on the Steering Committee based on an application process conducted during a public meeting.
- The Regional Water Quality Control Board representative is selected by the Santa Ana Regional Water Quality Control Board.

The Steering Committee shall be responsible for the development of the Plan. This includes receiving input from staff of their respective agencies as well as the SAWPA staff, providing direction for the development and long-term maintenance of the Plan, and development of a project prioritization process. The Steering Committee may make recommendations to the SAWPA Commission on proposed amendments to this governance document. Any such proposed amendments shall not take effect unless approved by the SAWPA Commission.

Meetings of the Steering Committee shall be scheduled at a regular time and place with an agenda posted prior to the meeting consistent with the Ralph M. Brown Act. The Steering Committee shall meet as needed with a minimum of at least an annual meeting. Minutes of the meetings shall be kept by SAWPA staff and posted on the OWOW website. Special meetings may be called and are subject to the provisions of the Ralph M. Brown Act.

In implementing the Steering Committee’s Goals and Objectives, the Steering Committee will:

- 1) Acknowledge that water resources of the Santa Ana River Watershed Region should be put to maximum beneficial use and that water waste must be prevented;

- 2) Acknowledge water as a public resource and respect existing agreements governing the water resources of the Santa Ana River Watershed Region;
- 3) Seek regional solutions for regional problems;
- 4) Encourage collaboration across boundaries and between multiple parties in project development; and
- 5) Consider sub-regional plans and planning efforts.

SAWPA Administration

The other arm to the governance of the OWOW process includes a management function conducted by the SAWPA staff. As the regional water agency for the Santa Ana River Watershed Region, SAWPA has had a long history of supporting regional collaborative efforts of this kind. As with previous IRWMP efforts for the Santa Ana River Watershed Region, SAWPA serves as support in providing administrative and facilitative assistance to the Steering Committee for the overall OWOW Plan development. In addition, SAWPA provides decision tools to assist the Steering Committee in decision-making processes, and performs significant public outreach and education about the integrated planning approach for the Santa Ana River Watershed Region.

As funding opportunities arise to implement OWOW, the Steering Committee will provide to the Commission an updated Plan and programmatic portfolio of projects specific to the funding opportunity. As noted above, the Commission will review the Plan and programmatic project portfolio to ensure that these fulfill the intent and requirements of the specific funding mechanism, any legislation authorizing the funding, all legal requirements as defined by the funding administrative agency, and equitable application of the benefits of the project portfolio across the entire region. Review of these items will be conducted by the Commission in a public meeting open to all interested stakeholders. It is understood that the Steering Committee will be responsible for the development and implementation of the project selection criteria.

Pillars

In order to manage the technical and planning work, the stakeholders are organized into separate workgroups or pillars centered around specific water resource management areas, issues, or concepts. They are identified and named by, and may be dissolved by, the Steering Committee. The Pillars support and assist SAWPA staff by, for example, offering creative ideas, conducting brainstorming, vetting ideas, assisting with regional coordination, assisting with outreach efforts, gathering or reviewing data or information, or developing or reviewing analysis. Each pillar consists of approximately 10 to 60 volunteers, depending on the topic and interest level. The volunteers include participants from local agencies, special districts, non-profit organizations, university officials, Native American Tribes, and private citizens.

Each pillar is led by a volunteer Co-Chairs with expertise in that specific aspect of water resources. The Pillar Co-Chairs are responsible for organizing, leading, and facilitating the workgroup process. The Pillar Co-Chairs are appointed as needed by the Steering Committee. No limits are placed on the duration someone may hold the position. A Pillar Co-Chair may only hold one chair position at a time.

Another role of the Pillar Co-Chairs is to provide support and input for SAWPA staff as they make recommendations to the Steering Committee about the Steering Committee OWOW goals and objectives. As technical experts in various water resource fields, the Pillar Co-Chairs provide

important feedback to the Steering Committee. The Pillar Co-Chairs periodically meet and act, in collaboration with SAWPA staff, as a technical management committee for reviewing and making recommendations to the Steering Committee and to the Commission relative to implementation of the

Plan and development of specific proposals for funding. The Pillar Co-Chairs also will support SAWPA staff as a technical management committee to provide oversight for OWOW projects.

Pillar work product development is a consensus process. Where there is disagreement on specific recommendations, the Steering Committee will provide guidance. Pillar groups will be added or subtracted based on the goals and objectives of the Steering Committee.

Pillar Co-Chairs, with assistance from SAWPA staff, are responsible for maintaining a notification list of interested stakeholders and notifying them of meetings. SAWPA staff will provide lists of interested stakeholders to Pillar Co-Chairs; however, Pillar Co-Chairs will post notifications. Pillar committee meetings shall be open to all interested parties.

Project Prioritization Development and Modification

Project prioritization for specific grant applications shall be established and maintained by the Steering Committee in coordination and with support from SAWPA staff. Stakeholders shall be allowed to comment on the development and maintenance of the project prioritization process. In addition, the Steering Committee’s role in project prioritization development and modification is to integrate regional water management goals and objectives for the region, to act as the oversight body that performs strategic decision making, crafts and adopts programmatic suites of project recommendations, and provides program advocacy necessary to optimize water resource protection for all.

AGREED TO:

SAWPA COMMISSION

Mike Gardner, Chair Dated

OWOW STEERING COMMITTEE

Gil Botello, Convener Dated

COMMISSION MEMORANDUM NO. 2025.14

DATE: February 18, 2025

TO: SAWPA Commission

SUBJECT: Commission Meeting During Lobby Construction (Security Improvements and ADA Upgrades)

PREPARED BY: David Ruhl, Executive Manager of Engineering and Operations

RECOMMENDATION

Receive and file.

DISCUSSION

Construction documents for alterations to the main lobby of the SAWPA building and required interior and exterior retrofits, including retrofits related to the Americans with Disability Act (ADA) requirements were completed and uploaded to PlanetBids in January 2025. The award of a construction contract is anticipated in April 2025, and construction would commence May 2025. Construction is anticipated to last approximately six (6) months through October 2025. During this time access to the front of the building will be restricted and there will be no access to the downstairs bathrooms while they are being remodeled to meet ADA requirements.

In order to not disrupt the SAWPA Commission and Committee Meetings, SAWPA staff is pursuing an alternate location for these meetings. Western Municipal Water District and Inland Empire Utilities Agencies have offered to host the meetings at their offices due to the proximity to SAWPA. Upon award of a Construction contract in April 2025 a detailed schedule for SAWPA Commission and Committee Meeting locations will be provided.

RESOURCE IMPACTS

Funds for Funds are available in the FY 2025 Budget, Building Reserve fund to cover the construction and construction management costs for the Project.

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COMMISSION MEMORANDUM NO. 2025.15

DATE: February 18, 2025

TO: SAWPA Commission

SUBJECT: Santa Ana River Watershed Climate Adaptation and Resilience Plan – Consultant Selection

PREPARED BY: Rachel Gray, Water Resources and Planning Manager

RECOMMENDATION

It is recommended that the Commission authorize the General Manager, or his designee, to execute the following:

1. General Services Agreement with Woodard & Curran; and,
2. Task Order No. W&C376-01 with Woodard & Curran for an amount not to exceed \$620,000, which includes the optional tasks for which SAWPA staff will negotiate the scope and fee proposal, to develop the Santa Ana River Watershed Climate Adaptation and Resilience Plan.

DISCUSSION

Staff developed a strategy to supplement the One Water One Watershed (OWOW) Plan with a Regional Climate Adaptation and Resilience Plan (Plan). The Plan would define watershed-scale climate risks and vulnerabilities, develop climate adaptation strategies, develop a portfolio of planned and potential resiliency projects, connect the equity outcomes for underrepresented communities, and strengthen broad-based partnerships that advance shared interests across the watershed.

Staff applied for grant funding from the Governor's Office of Land Use and Climate Innovation (formerly Governor's Office of Planning and Research) for the Integrated Climate Adaptation and Resiliency Program Regional Resilience Planning and Implementation Grant Program and was chosen to receive grant funding. Over multiple funding rounds, the RRGP will invest funding into regions advancing resilience and responding to their regions' greatest climate risks through three major activities: capacity building, planning (including identifying climate resilience priorities), and project implementation.

The Plan would advance multi-beneficial projects with a diverse range of stakeholders with a common goal to increase resilience in the watershed. The regional Plan would daylight the interconnectivity of individual and regional projects and demonstrate the upstream/downstream benefits while building on types of stakeholders engaged in the plan development. The regional Plan would also consider affordability risks and underrepresented communities related to climate vulnerabilities and establish a clear connection between resilience initiatives and equitable outcomes. This effort would provide benefits to a wide array of stakeholders (member agencies, utilities, cities, communities) and provide a mechanism for future funding from a variety of funding sources for implementation of projects that advance watershed resilience.

The roles of each entity are described below:

- SAWPA (lead applicant) brings a proven track record of working with public agencies in the region; developing, tracking and implementing large-scale grant programs; and supporting integrated water resources management in the SARW. SAWPA will provide administrative and technical oversight of the project.

- ISC3 (co-applicant) brings a proven track record of connecting and building the capacity of local government, utilities, and CBOs across the region. ISC3 is responsible for managing CBOs and soliciting community feedback in the watershed.
- Soboba (co-applicant) brings a proven track record supporting integrated water resources management planning and engaging with tribal communities. Soboba will provide the tribal perspective on climate vulnerabilities, underlying risk factors, and identifying adaptation strategies in support of tribal communities.
- Consultant: facilitate public agency engagement and provide support to co-applicants, develop plan by performing a data request and implementing an engagement strategy.

The purpose of the request for proposals (RFP) is to seek a climate-resilience experienced consultant whose approach is efficient, organized, and appropriately scaled to the planning-level analysis needed to develop the Santa Ana River Watershed CARP. The Consultant is expected to assemble a dedicated team that possesses communication skills and expertise in climate resilience planning. SAWPA expects all analyses, data, original graphics, and editable copies of all written reports to be turned over to the SAWPA at the completion of the project; no portion of the CARP will be proprietary.

The Consultant will have several primary roles defined below:

- Develop and manage the approach for the Public Agency Engagement.
- Synthesize the input from Community and Tribal engagement, coupled with the input from the Public Agency engagement.
- Develop deliverables for the project.
- Develop the draft and final CARP.
- Develop digital platform.

In addition, the consultant will provide as-needed, nominal support for the Community and Tribal engagement.

On December 3, 2024, the SAWPA Commission approved the issuance of a request for proposals to engage a consultant for the Development of a Climate Adaptation and Resilience Plan for the Santa Ana River Watershed. Proposals were received by the amended deadline of January 23, 2025, from AtkinsRealis, CDM Smith, Dudek, Somos Group, Woodard & Curran, Rincon Consultants, Inc., Brendle Group, SWCA Environmental Consultants, Geosyntec Consultants, Tetra Tech, and Water System Consulting. SAWPA and its co-applicants, Soboba and ISC3, consisted of the selection committee, reviewed and rated the 11 proposals. The proposals were rated based on the following criteria and their weights are:

- Experience on similar projects and project team (20%)
- Demonstrated ability to perform the tasks outlined in this RFP (20%)
- Project Understanding and Approach (40%)
- Quality and completeness of proposal (15%)
- Timeline (5%)

Each proposal was given a score based on how their proposal performed based on the scoring criteria. Woodard & Curran provided the proposal that received the highest-ranking score. SAWPA staff and its co-applicants are recommending the Commission approve the Task Order and General Services Agreement with Woodard & Curran, including a 24-month scope of work

and budget of \$542,115, which includes optional tasks, and is described in depth in Appendix 5 of their proposal. The elements of their proposal are summarized as:

- Project Administration
- Reference Materials Review
- Public Agency Engagement Plan
- Implementation of Public Agency Engagement Plan
- Developing Watershed Resiliency Metrics/Indicators
- Supporting Community and Tribal Engagement
- Developing a Digital Presence for CARP, and,
- Final CARP Development.

In the RFP, SAWPA listed additional optional tasks that would enhance and build on some of the work being done during the Planning process. Woodard & Curran provided innovative and creative ways we can leverage the work being done with the CARP process that will allow SAWPA to provide additional value to the watershed through deliverables such as implementation plans, project cost analyses, dynamic and downloadable data sets, and productive engagement to encourage support for projects identified through Public Agency, Community and Tribal engagement. A summary of the rating results for the top 5 proposals is provided below.

Summary of Top 5 Proposals					
Criteria	Water Systems Consulting	Rincon Consultants	AtkinsRealis	Woodard & Curran	SWCA Env. Consultants
Score	7.8	9.0	7.9	9.2	8.9
Proposal Fee	\$466,604	\$330,013	\$334,119	\$329,885	\$327,552
Optional Tasks Proposal Fee	\$45,161	--	--	\$212,230	--

Woodard & Curran have developed a thorough proposal that describes effective ways of conducting engagement through workshops, surveys, and utilizing the digital platform as a tool throughout the planning process. Their proposal captured the essence of the grant program and it's aims for the funding to support the region in evaluating experienced climate risks and vulnerabilities, identifying adaptation strategies locally and regionally, incorporating metrics and a framework that measures the success of the program through implementation and finally a digital tool that communicates, to stakeholders and the public, the impacts of climate risks and how the watershed is coming together to address those challenges.

CRITICAL SUCCESS FACTORS

- Leverage existing information for the benefit of SAWPA, its members, and other stakeholders.
- Active participation of a diverse group of stakeholders representing counties, cities, and water districts, as well as the tribal communities and the regulatory, community-based, and environmental justice communities who integrate the different interests in the watershed beyond political boundaries. Ensuring all perspectives are heard and valued during the development of the regional climate adaptation and resilience plan.

- SAWPA has a strong reputation and sufficient capacity within SAWPA staff for strategic facilitation, planning, communication, leadership, and community engagement.

RESOURCE IMPACTS

The Santa Ana River Watershed Project Authority has been selected as a Round 1 Grantee for the Regional Resilience Grant Program (RRGP) award of \$644,190 for the Santa Ana River Watershed Climate Adaptation and Resilience Plan of which \$330,000 will be allocated to this project. Up to \$290,000 is available from unused Prop 84 project funding in Fund 504. Funding for consultant cost is included in the FYE 2026 and FYE 2027 budgets.

Attachments:

1. PowerPoint Presentation
2. General Services Agreement
3. Task Order W&C376-01
4. Woodard & Curran Proposal



SANTA ANA WATERSHED
PROJECT AUTHORITY

Santa Ana River Watershed Climate Adaptation and Resilience Plan – Consultant Selection

Commission Meeting

Item No. 6.C

Rachel Gray

Water Resources and Planning Manager

February 18, 2025

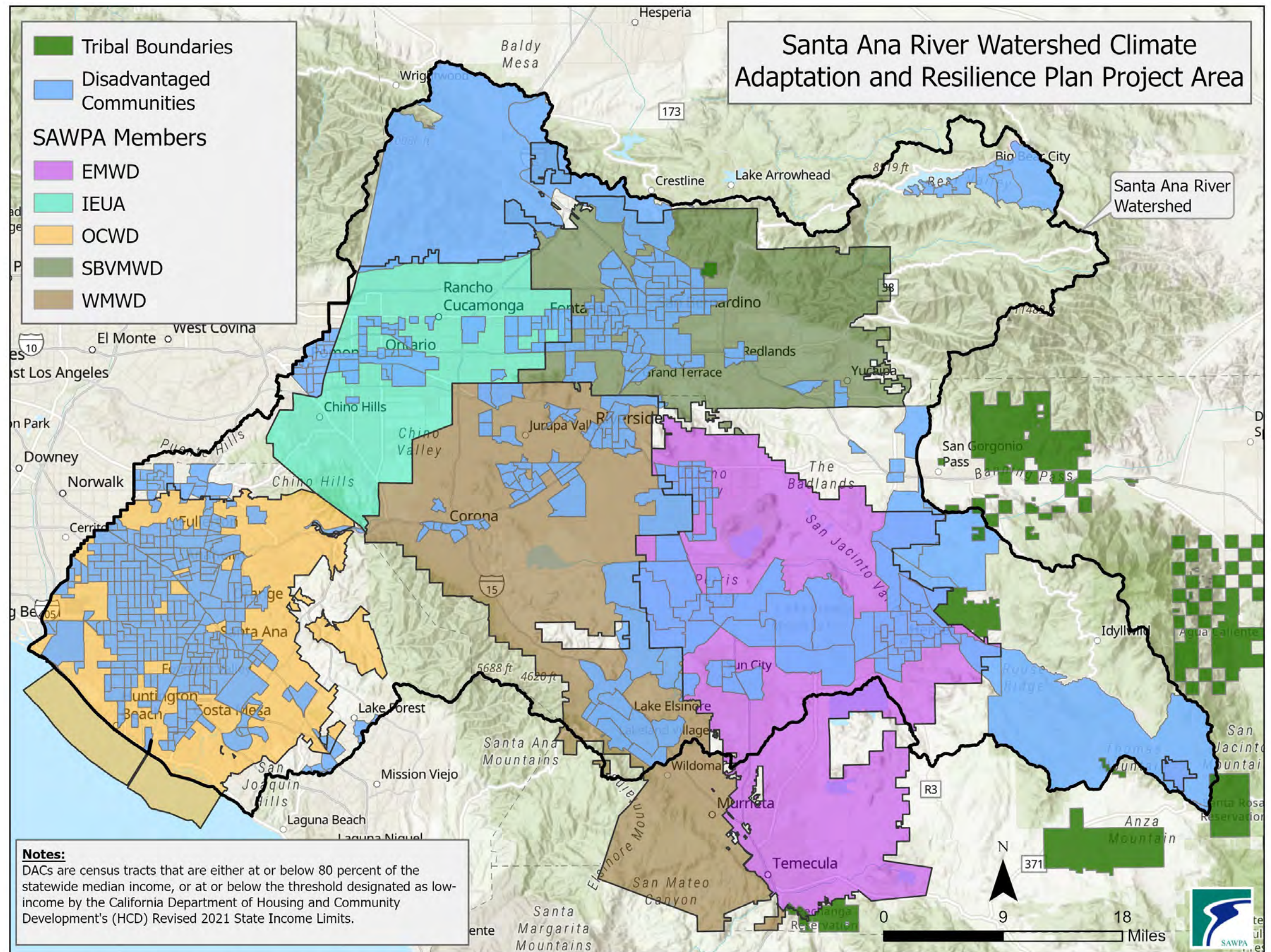
Recommendation

It is recommended that the Commission authorize the General Manager, or his designee, to execute the following to develop the Santa Ana River Watershed Climate Adaptation and Resilience Plan:

1. General Services Agreement with Woodard & Curran; and
2. Task Order No. W&C376-01 with Woodard & Curran for an amount not to exceed \$620,000, which includes the optional tasks for which SAWPA staff will negotiate the scope and fee proposal.

Agenda

- Background on Grant Program
- CARP Background
 - Purpose
 - Benefits
 - Organizational Structure
- Consultant Selection Process
 - Consultant Role
 - RFP Schedule
 - RFP Elements
 - Proposal Evaluation Process
- Schedule
- Recommendation



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Regional Resilience Grant Program (RRGP)

- **RRGP** is under the Governor's Office of Land Use and Climate Innovation (formerly Office of Planning and Research)
- SAWPA was awarded grant funding in an amount of **\$644,190**
- **Purpose:** Help build climate resilience in the Santa Ana River Watershed



Adaptation Planning Process from California Adaptation Guide, (2020)

Climate Adaptation and Resilience Plan

- CARP

- Strategic Framework
- Outlines actions and measures to enhance the climate resilience of a watershed
- Address the climate risks and vulnerabilities
 - Including water resources, ecosystems, and communities
 - Integrating regional and local adaptive management practices

- Regional CARP

- Community informed
- Stakeholder driven
- Implementation focused

Benefits of CARP



Advance watershed resiliency



Define watershed-wide climate risks and vulnerabilities



Develop local and regional climate adaptation strategies



Enhance multi-jurisdictional collaboration



Support future funding of member agency projects, other stakeholder projects, and regional projects

Grant: SAWPA and Co- Applicants

Lead Agency: SAWPA

- Manage overall grant
- Secure Consultant (**subject of RFP**)
- Facilitate Technical Advisory Committee (TAC)

Co-Applicants:

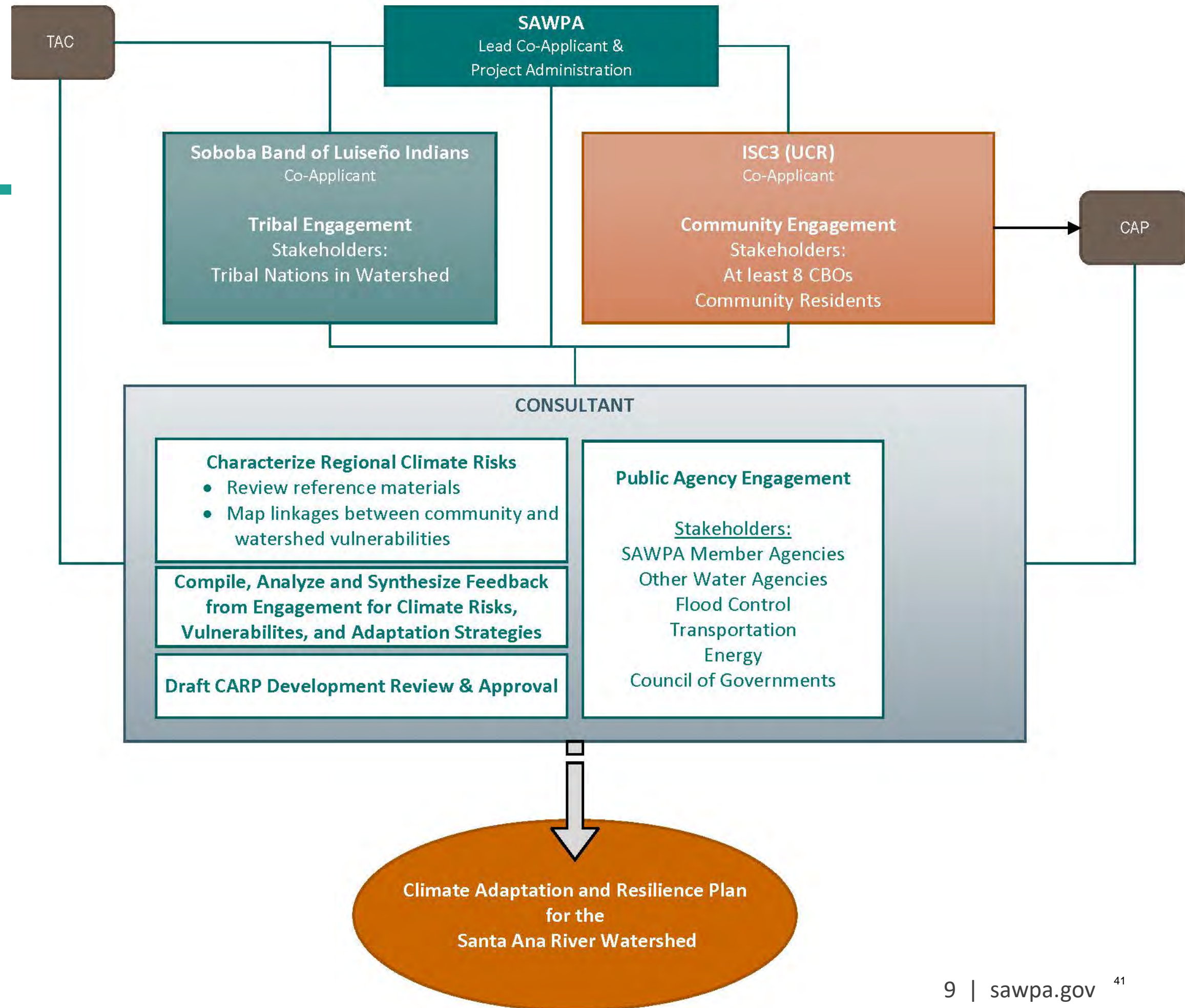
- Soboba
 - ✓ Tribal Engagement
- ISC3/UC Riverside
 - ✓ Community Engagement
 - ✓ Facilitate Community Advisory Panel (CAP)

Consultant Selection Process

Role: Consultant

- Public Agency Engagement
- Workplan
- Data Request
- Climate Risks
- Climate Vulnerabilities
- Adaptation Analysis
- Resilience Portfolios
- Funding Strategies
- Implementation Plan
- CARP and Geospatial Database

Synthesize Input from Community, Tribal and, Agency Stakeholders

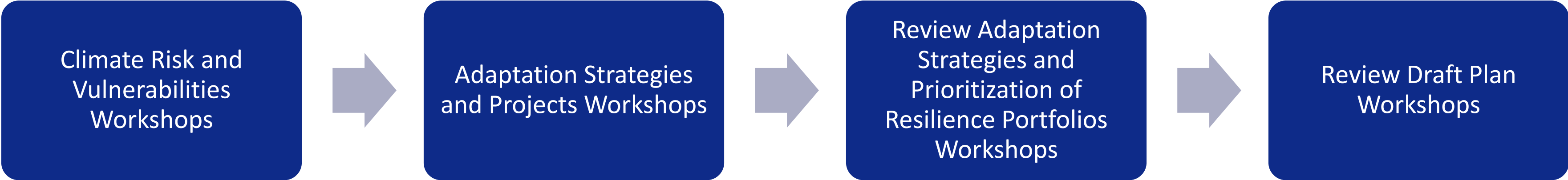


RFP / Proposal Schedule

Date	Event
December 3, 2024	<ul style="list-style-type: none">• Commission Approval to Release RFP• Release RFP following Approval
December 20, 2024	<ul style="list-style-type: none">• Deadline for Consultants to Submit Inquiries
January 23, 2025	<ul style="list-style-type: none">• Deadline for SAWPA Receipt of Proposals
February 11, 2025	<ul style="list-style-type: none">• Update GMs on Consultant Selection Process
February 18, 2025	<ul style="list-style-type: none">• SAWPA Commission Approval/Award Contract

Elements of RFP Tasks

- Workplan (milestones, deliverables, schedule)
- “Public Agency Engagement” Plan
- Review available planning documents for watershed stakeholders
- Series of workshops by Member Agency service area:



- Supplement workshops with online surveys
- Consultant to synthesize workshop results and outcomes of Community Engagement and Tribal Engagement efforts
- SAWPA will update/engage Member Agencies via Quarterly Planning Manager Meetings
- Commission and GMs will be updated at regular intervals

Proposal Selection Committee and Scoring Criteria

Proposal Selection Committee:

- SAWPA
- Soboba Band of Luiseño Indians
- Inland Southern California Climate Collaborative / University of California Riverside



Scoring Criteria
Experience on similar projects and project team
Demonstrate ability to perform the tasks outlined in RFP
Project Understanding and approach
Quality and completeness of proposal
Timeline

Proposal Scoring

Summary of Top 5 Proposals					
Criteria	Water Systems Consulting	Rincon Consultants	AtkinsRealis	Woodard & Curran	SWCA Env. Consultants
Score	7.8	9.0	7.9	9.2	8.9
Proposal Fee	\$466,604	\$330,013	\$334,119	\$329,885	\$327,552
Optional Tasks Proposal Fee	\$45,161	--	--	\$212,230	--

Other Proposals Submitted

- Brendle Group Team
- CDM Smith
- Dudek
- Geosyntec
- Somos Group
- TetraTech

Highlights of Proposed Scope of Work

- **Reference Materials Review**
 - Review of existing Member Agency and other planning documents
- **Public Agency Engagement Plan**
 - Outreach to Member Agencies and stakeholders
- **Implementation of Public Agency Engagement Plan**
 - Workshop and online surveys
 - Develop outcomes (risks, vulnerabilities, adaptation strategies) and resilience portfolios
- **Developing Watershed Resiliency Metrics/Indicators**
 - Measures of watershed resilience
- **Supporting Community and Tribal Engagement**
 - Incorporate community and Tribal input
- **Digital Presence for CARP**
 - Document outcomes; use of infographics
- **Final CARP**

Proposal Project Deliverables

Key Deliverables

- Project Work Plan
- Watershed Resilience Goal and Vision Statement
- Summary of Climate Risks and Vulnerabilities, Initial Adaptation Projects, and Sensitivity Factors
- Public Agency Engagement Plan
- Summary of Climate Risks TM
- Vulnerability Assessment TM
- High-level Criteria TM
- Adaptation Strategies TM
- Resilience Portfolios TM
- Proposed Indicators/Metrics TM
- Community and Stakeholder Framework
- Engagement Outcomes Summary TM
- Funding Strategy TM
- Final CARP

Supporting Deliverables

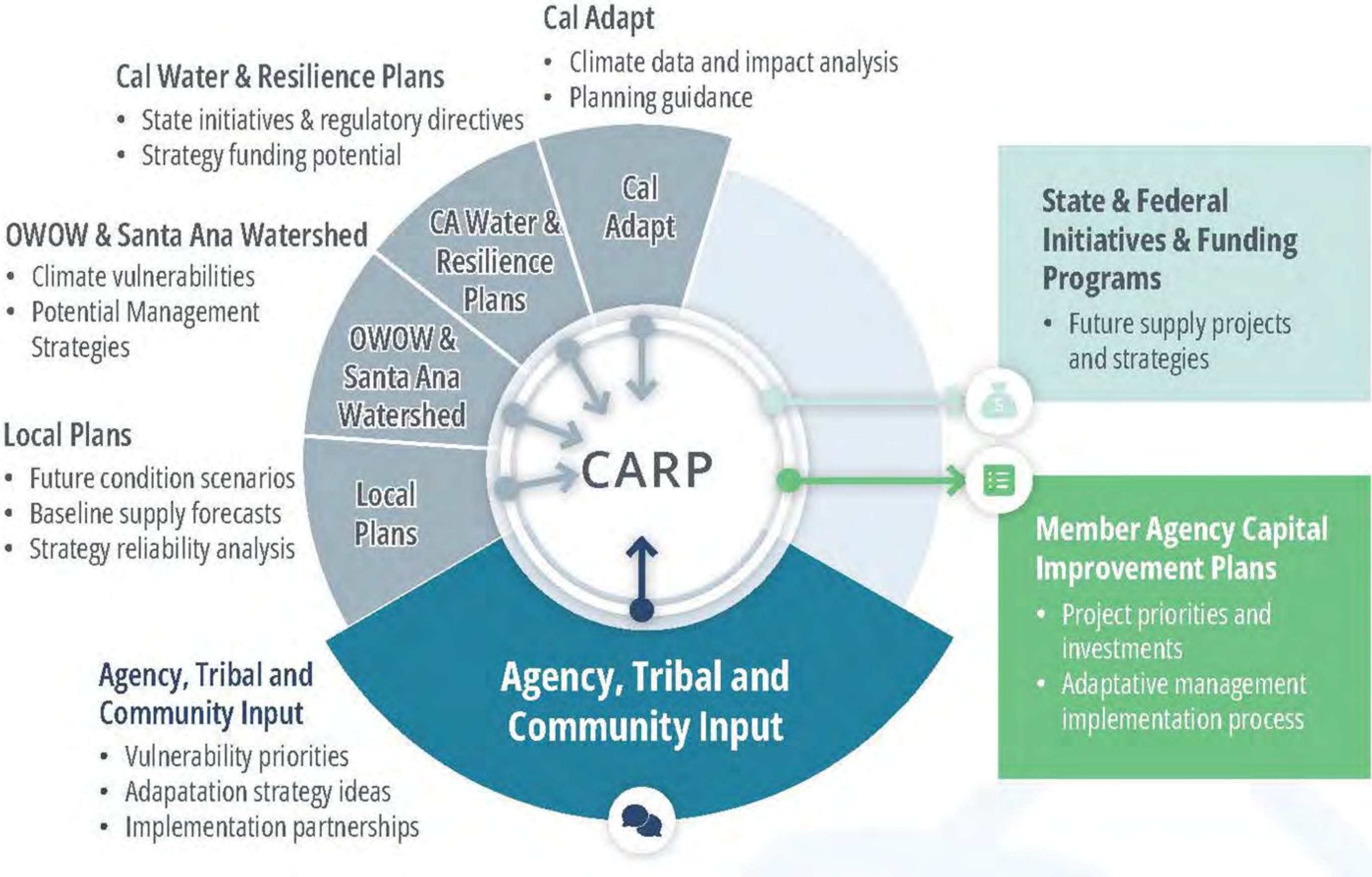
- Project Kickoff Meeting
- Monthly Progress reports
- SAWPA's Commission status updates
- Meeting materials for meetings
- Online survey components
- Meeting materials for Technical Advisory Committee
- Workshop Summaries TMs
- Virtual Survey Results TM
- Review community and tribal engagement process 15 | sawpa.org
- Meeting materials for Community Advisory Panel
- Web-based digital online platform for CARP
- Materials for online platform
- Materials for CARP Review Workshop
- Materials for presentations to SAWPA Commission and OWOW Review

Optional Task Deliverables

- Geospatial database
- Enhanced online content
- Interactive elements for community and stakeholder users for online platform
- Historical and predictive trends summary for climate change factors
- Operating procedures for updating data inputs
- Enhanced Regional Adaptation Projects List and Roadmap
- Meeting agendas, materials, and notes for stakeholders

Proposal Highlights

- Integrating existing data and new input
- Use of State resources
- Local climate adaptation and vulnerabilities project experience



Source: Woodard & Curran CARP Proposal (2025)

Recommendation

It is recommended that the Commission authorize the General Manager, or his designee, to execute the following to develop the Santa Ana River Watershed Climate Adaptation and Resilience Plan:

1. General Services Agreement with Woodard & Curran; and
2. Task Order No. W&C376-01 with Woodard & Curran for an amount not to exceed \$620,000, which includes the optional tasks for which SAWPA staff will negotiate the scope and fee.

Questions

Rachel Gray
Santa Ana Watershed Project Authority
Office (951) 354-4250
rgray@sawpa.gov
sawpa.gov





SANTA ANA WATERSHED PROJECT AUTHORITY
GENERAL SERVICES AGREEMENT FOR SERVICES BY INDEPENDENT CONSULTANT

This Agreement is made this **18th day of February, 2025** by and between the Santa Ana Watershed Project Authority ("SAWPA") located at 11615 Sterling Avenue, Riverside, CA, 92503 and Woodard & Curran ("Consultant") whose address is 515 S. Flower Street, 18th Floor, Los Angeles, CA 90071.

RECITALS

This Agreement is entered into on the basis of the following facts, understandings, and intentions of the parties to this Agreement:

- SAWPA desires to engage the professional services of Consultant to perform such professional consulting services as may be assigned, from time to time, by SAWPA in writing;
- Consultant agrees to provide such services pursuant to, and in accordance with, the terms and conditions of this Agreement and has represented and warrants to SAWPA that Consultant possesses the necessary skills, qualifications, personnel, and equipment to provide such services; and
- The services to be performed by Consultant shall be specifically described in one or more written Task Orders issued by SAWPA to Consultant pursuant to this Agreement.

AGREEMENT

Now, therefore, in consideration of the foregoing Recitals and mutual covenants contained herein, SAWPA and Consultant agree to the following:

ARTICLE I

TERM OF AGREEMENT

1.01 This agreement shall become effective on the date first above written and shall continue until **December 31, 2028**, unless extended or sooner terminated as provided for herein.

ARTICLE II

SERVICES TO BE PERFORMED

2.01 Consultant agrees to provide such professional consulting services as may be assigned, from time to time, in writing by the Commission and the General Manager of SAWPA. Each assignment shall be made in the form of a written Task Order. Each such Task Order shall include, but shall not be limited to, a description of the nature and scope of the services to be performed by Consultant, the amount of compensation to be paid, and the expected time of completion.

2.02 Consultant may at Consultant's sole cost and expense, employ such competent and qualified independent professional associates, subcontractors, and consultants as Consultant deems necessary to perform each assignment; provided that Consultant shall not subcontract any work to be performed without the prior written consent of SAWPA.

ARTICLE III

COMPENSATION

3.01 In consideration for the services to be performed by Consultant, SAWPA agrees to pay Consultant as provided for in each Task Order.

3.02 Each Task Order shall specify a total not-to-exceed sum of money and shall be based upon the regular hourly rates customarily charged by Consultant to its clients.

3.03 Consultant shall not be compensated for any services rendered nor reimbursed for any expenses incurred in excess of those authorized in any Task Order unless approved in advance by the Commission and General Manager of SAWPA, in writing.

3.04 Unless otherwise provided for in any Task Order issued pursuant to this Agreement, payment of compensation earned shall be made in monthly installments after receipt from Consultant of a timely, detailed, corrected, written invoice by SAWPA's Project Manager, describing, without limitation, the services performed, when such services were performed, the time spent performing such services, the hourly rate charged therefore, and the identity of individuals performing such services for the benefit of SAWPA. Such invoices shall also include a detailed itemization of expenses incurred. Upon approval by an authorized SAWPA employee, SAWPA will pay within 30 days after receipt of a valid invoice from Consultant.

ARTICLE IV

CONSULTANT OBLIGATIONS

4.01 Consultant agrees to perform all assigned services in accordance with the terms and conditions of this Agreement including those specified in each Task Order. In performing the services required by this Agreement and any related Task Order Consultant shall comply with all local, state and federal laws, rules and regulations. Consultant shall also obtain and pay for any permits required for the services it performs under this Agreement and any related Task Order.

4.02 Except as otherwise provided for in each Task Order, Consultant will supply all personnel and equipment required to perform the assigned services.

4.03 Consultant shall be solely responsible for the health and safety of its employees, agents and subcontractors in performing the services assigned by SAWPA.

4.04 Insurance Coverage: Consultant shall procure and maintain for the duration of this Agreement insurance against claims for injuries or death to persons or damages to property which may arise from or in connection with the performance of the work hereunder and the results of that work by the Consultant, its agents, representatives, employees or sub-contractors.

4.04(a) Coverage - Coverage shall be at least as broad as the following:

- 1. Commercial General Liability (CGL)** - Insurance Services Office (ISO) Commercial General Liability Coverage (Occurrence Form CG 00 01) including products and completed operations, property damage, bodily injury, personal and advertising injury with limit of at least two million dollars (\$2,000,000) per occurrence or the full per occurrence limits of the policies available, whichever is greater. If a general aggregate limit applies, either the general aggregate limit shall apply separately to this project/location (coverage as broad as the ISO CG 25 03, or ISO CG 25 04 endorsement provided to SAWPA) or the general aggregate limit shall be twice the required occurrence limit.
- 2. Automobile Liability** – (if necessary) Insurance Services Office (ISO) Business Auto Coverage (Form CA 00 01), covering Symbol 1 (any auto) or if Consultant has no owned autos, Symbol 8 (hired) and 9 (non-owned) with limit of one million dollars (\$1,000,000) for bodily injury and property damage each accident.
- 3. Workers' Compensation Insurance** - as required by the State of California, with Statutory Limits, and Employer's Liability Insurance with limit of no less than \$1,000,000 per accident for bodily injury or disease.
- 4. Professional Liability** - (Also known as Errors & Omission) Insurance appropriate to the Consultant profession, with limits no less than \$1,000,000 per occurrence or claim, and \$2,000,000 policy aggregate.
- 5. Cyber Liability Insurance (Technology Professional Liability – Errors and Omissions)** – If Consultant will be providing technology services, limits not less than \$2,000,000 per occurrence or claim, and \$2,000,000 aggregate or the full per occurrence limits of the policies available, whichever is greater. Coverage shall be sufficiently broad to respond to the duties and obligations as is undertaken by Consultant in this Agreement and shall include, but not be limited to, claims involving infringement of intellectual property, including but not limited to infringement of copyright, trademark, trade dress,

invasion of privacy violations, information theft, damage to or destruction of electronic information, release of private information, alteration of electronic information, extortion and network security. The policy shall provide coverage for breach response costs as well as regulatory fines and penalties as well as credit monitoring expenses with limits sufficient to respond to these obligations.

If the Consultant maintains broader coverage and/or higher limits than the minimums shown above, SAWPA requires and shall be entitled to the broader coverage and/or higher limits maintained by the Consultant. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to SAWPA.

4.04(b) If Claims Made Policies:

1. The Retroactive Date must be shown and must be before the date of the contract or the beginning of contract work.
2. Insurance must be maintained and evidence of insurance must be provided **for at least five (5) years after completion of the contract of work.**
3. If coverage is canceled or non-renewed, and not **replaced with another claims-made policy form with a Retroactive Date** prior to the contract effective date, the Consultant must purchase "extended reporting" coverage for a minimum of **five (5) years** after completion of contract work.

4.04(c) Waiver of Subrogation: The insurer(s) named above agree to waive all rights of subrogation against SAWPA, its elected or appointed officers, officials, agents, authorized volunteers and employees for losses paid under the terms of this policy which arise from work performed by the Named Insured for the Agency; but this provision applies regardless of whether or not SAWPA has received a waiver of subrogation from the insurer.

4.04(d) Other Required Provisions - The general liability policy must contain, or be endorsed to contain, the following provisions:

1. **Additional Insured Status:** SAWPA, its directors, officers, employees, and authorized volunteers are to be given insured status (at least as broad as ISO Form CG 20 10 10 01), with respect to liability arising out of work or operations performed by or on behalf of the Consultant including materials, parts, or equipment furnished in connection with such work or operations.
2. **Primary Coverage:** For any claims related to this project, the Consultant's insurance coverage shall be primary at least as broad as ISO CG 20 01 04 13 as respects to SAWPA, its directors, officers, employees and authorized volunteers. Any insurance or self-insurance maintained by the Member Water Agency its directors, officers, employees and authorized volunteers shall be excess of the Consultant's insurance and shall not contribute with it.

4.04(e) Notice of Cancellation: Each insurance policy required above shall provide that coverage shall not be canceled, except with notice to SAWPA.

4.04(f) Self-Insured Retentions - Self-insured retentions must be declared to and approved by SAWPA. SAWPA may require the Consultant to provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention. The policy language shall provide, or be endorsed to provide, that the self-insured retention may be satisfied by either the named insured or SAWPA.

4.04(g) Acceptability of Insurers - Insurance is to be placed with insurers having a current A.M. Best rating of no less than A: VII or as otherwise approved by SAWPA.

4.04(h) Verification of Coverage – Consultant shall furnish SAWPA with certificates and amendatory endorsements or copies of the applicable policy language effecting coverage required by this clause. All certificates and endorsements are to be received and approved by SAWPA before work commences. However, failure to obtain the required documents prior to the work beginning shall not waive the Consultant's obligation to provide them. SAWPA reserves the right to require complete, certified copies of all required insurance policies, including policy Declaration pages and Endorsement pages.

4.04(i) Subcontractors - Consultant shall require and verify that all subcontractors maintain insurance meeting all the requirements stated herein, and Consultant shall ensure that SAWPA, its directors, officers, employees and authorized volunteers are additional insureds on Commercial General Liability Coverage.

4.05 Consultant hereby covenants and agrees that SAWPA, its officers, employees, and agents shall not be liable for any claims, liabilities, penalties, fines or any damage to property, whether real or personal, nor for any personal injury or death caused by, or resulting from, or claimed to have been caused by or resulting from, any negligence, recklessness, or willful misconduct of Consultant. To the extent permitted by law, Consultant shall hold harmless, defend at its own expense, and indemnify SAWPA, its directors, officers, employees, and authorized volunteers, against any and all liability, claims, losses, damages, or expenses, including reasonable attorney's fees and costs, arising from all acts or omissions of Consultant or its officers, agents, or employees in rendering services under this Agreement and any Task Order issued hereunder; excluding, however, such liability, claims, losses, damages or expenses arising from SAWPA's sole negligence or willful acts.

4.06 In the event that SAWPA requests that specific employees or agents of Consultant supervise or otherwise perform the services specified in each Task Order, Consultant shall ensure that such individual(s) shall be appointed and assigned the responsibility of performing the services.

4.07 In the event Consultant is required to prepare plans, drawings, specifications and/or estimates, the same shall be furnished with a registered professional engineer's number and shall conform to local, state and federal laws, rules and regulations. Consultant shall obtain all necessary permits and approvals in connection with this Agreement, any Task Order or Change Order. However, in the event SAWPA is required to obtain such an approval or permit from another governmental entity, Consultant shall provide all necessary supporting documents to be filed with such entity, and shall facilitate the acquisition of such approval or permit.

4.08 Consultant shall comply with all local, state and federal laws, rules and regulations including those regarding nondiscrimination and the payment of prevailing wages, if required by law.

ARTICLE V

SAWPA OBLIGATIONS

5.01 SAWPA shall:

5.01a Furnish all existing studies, reports and other available data pertinent to each Task Order that are in SAWPA's possession;

5.01b Designate a person to act as liaison between Consultant and the General Manager and Commission of SAWPA.

ARTICLE VI

ADDITIONAL SERVICES, CHANGES AND DELETIONS

6.01 During the term of this Agreement, the Commission of SAWPA may, from time to time and without affecting the validity of this Agreement or any Task Order issued pursuant thereto, order changes, deletions, and additional services by the issuance of written Change Orders authorized and approved by the Commission of SAWPA.

6.02 In the event Consultant performs additional or different services than those described in any Task Order or authorized Change Order without the prior written approval of the Commission of SAWPA, Consultant shall not be compensated for such services.

6.03 Consultant shall promptly advise SAWPA as soon as reasonably practicable upon gaining knowledge of a condition, event, or accumulation of events, which may affect the scope and/or cost of services to be provided pursuant to this Agreement. All proposed changes, modifications, deletions, and/or requests for additional services shall be reduced to writing for review and approval or rejection by the Commission of SAWPA.

6.04 In the event that SAWPA orders services deleted or reduced, compensation shall be deleted or reduced by a comparable amount as determined by SAWPA and Consultant shall only be compensated for services actually performed. In the event additional services are properly authorized, payment for the same shall be made as provided in Article III above.

ARTICLE VII

CONSTRUCTION PROJECTS: CONSULTANT CHANGE ORDERS

7.01 In the event SAWPA authorizes Consultant to perform construction management services for SAWPA, Consultant may determine, in the course of providing such services, that a Change Order should be issued to the construction contractor, or Consultant may receive a request for a Change Order from the construction contractor. Consultant shall, upon receipt of any requested Change Order or upon gaining knowledge of any condition, event, or accumulation of events, which may necessitate issuing a Change Order to the construction contractor, promptly consult with the liaison, General Manager and Commission of SAWPA. No Change Order shall be issued or executed without the prior approval of the Commission of SAWPA.

ARTICLE VIII

TERMINATION OF AGREEMENT

8.01 In the event the time specified for completion of an assigned task in a Task Order exceeds the term of this Agreement, the term of this Agreement shall be automatically extended for such additional time as is necessary to complete such Task Order and thereupon this Agreement shall automatically terminate without further notice.

8.02 Notwithstanding any other provision of this Agreement, SAWPA, at its sole option, may terminate this Agreement at any time by giving 10 day written notice to Consultant, whether or not a Task Order has been issued to Consultant.

8.03 In the event of termination, the payment of monies due Consultant for work performed prior to the effective date of such termination shall be paid after receipt of an invoice as provided in this Agreement.

ARTICLE IX

CONSULTANT STATUS

9.01 Consultant shall perform the services assigned by SAWPA in Consultant's own way as an independent contractor, in pursuit of Consultant's independent calling and not as an employee of SAWPA. Consultant shall be under the control of SAWPA only as to the result to be accomplished and the personnel assigned to perform services. However, Consultant shall regularly confer with SAWPA's liaison, General Manager, and Commission as provided for in this Agreement.

9.02 Consultant hereby specifically represents and warrants to SAWPA that the services to be rendered pursuant to this Agreement shall be performed in accordance with the standards customarily applicable to an experienced and competent professional consulting organization rendering the same or similar services. Furthermore, Consultant represents and warrants that the individual signing this Agreement on behalf of Consultant has the full authority to bind Consultant to this Agreement.

ARTICLE X

AUDIT AND OWNERSHIP OF DOCUMENTS

10.01 All draft and final reports, plans, drawings, specifications, data, notes, and all other documents of any kind or nature prepared or developed by Consultant in connection with the performance of services assigned to it by SAWPA are the sole property of SAWPA, and Consultant shall promptly deliver all such materials to SAWPA. Consultant may retain copies of the original documents, at its option and expense. Use of such documents by SAWPA for project(s) not the subject of this Agreement shall be at SAWPA's sole risk without legal liability or exposure to Consultant. SAWPA agrees to not release any software "code" without prior written approval from the Consultant.

10.02 Consultant shall retain and maintain, for a period not less than four years following termination of this Agreement, all time records, accounting records, and vouchers and all other records with respect to all matters concerning services performed, compensation paid and expenses reimbursed. At any time during normal business hours and as often as SAWPA may deem necessary, Consultant shall make available to SAWPA's agents for examination of all such records and will permit SAWPA's agents to audit, examine and reproduce such records.

ARTICLE XI

MISCELLANEOUS PROVISIONS

11.01 This Agreement supersedes any and all previous agreements, either oral or written, between the parties hereto with respect to the rendering of services by Consultant for SAWPA and contains all of the covenants and agreements between the parties with respect to the rendering of such services in any manner whatsoever. Any modification of this Agreement will be effective only if it is in writing signed by both parties.

11.02 Consultant shall not assign or otherwise transfer any rights or interest in this Agreement without the prior written consent of SAWPA. Unless specifically stated to the contrary in any written consent to an assignment, no assignment will release or discharge the assignor from any duty or responsibility under this Agreement.

11.03 In the event Consultant is an individual person and dies prior to completion of this Agreement or any Task Order issued hereunder, any monies earned that may be due Consultant from SAWPA as of the date of death will be paid to Consultant's estate.

11.04 Time is of the essence in the performance of services required hereunder. Extensions of time within which to perform services may be granted by SAWPA if requested by Consultant and agreed to in writing by SAWPA. All such requests must be documented and substantiated and will only be granted as the result of unforeseeable and unavoidable delays not caused by the lack of foresight on the part of Consultant.

11.05 SAWPA expects that Consultant will devote its full energies, interest, abilities and productive time to the performance of its duties and obligations under this Agreement, and shall not engage in any other consulting activity that would interfere with the performance of Consultant's duties under this Agreement or create any conflicts of interest. If required by law, Consultant shall file a Conflict of Interest Statement with SAWPA.

11.06 Any dispute which may arise by and between SAWPA and the Consultant, including the Consultants, its employees, agents and subcontractors, shall be submitted to binding arbitration. Arbitration shall be conducted by a neutral, impartial arbitration service that the parties mutually agree upon, in accordance with its rules and procedures. The arbitrator must decide each and every dispute in accordance with the laws of the State of California, and all other applicable laws. Unless the parties stipulate to the contrary prior to the appointment of the arbitrator, all disputes shall first be submitted to non-binding mediation conducted by a neutral, impartial mediation service that the parties mutually agree upon, in accordance with its rules and procedures.

11.07 During the performance of the Agreement, Consultant and its subcontractors shall not unlawfully discriminate, harass, or allow harassment against any employee or applicant for employment because of sex, race, color, ancestry, religious creed, national origin, physical disability (including HIV and AIDS), mental disability, medical condition (cancer), age (over 40), marital status and denial of family care leave. Consultant and its subcontractors shall insure that the evaluation and treatment of their employees and applicants for employment are free from such discrimination and harassment. Consultant and its subcontractors shall comply with the provisions of the Fair Employment and Housing Act (Government Code, Section 12290 et seq.) and the applicable regulations promulgated there under (California Code of Regulations, Title 2, Section 7285 et seq.). The applicable regulations of the Fair Employment and Housing Commission implementing Government Code Section 12990 et seq., set forth in Chapter 5 of Division 4 of Title 2 of the California Code of Regulations, are incorporated into this Agreement by reference and made a part hereof as if set forth in full. Consultant and its subcontractors shall give written notice of their obligations under this clause to labor organizations with which they have a collective bargaining or other agreement. Consultant shall include the

non-discrimination and compliance provisions of this clause in all subcontracts to perform work under the Agreement.

11.08 Contractor’s employees, agents and subcontractors shall adhere to, and comply with, the California Drug Free Workplace Act at Government Code, Sections 8350 through 8357.

11.09 This contract may be executed in any number of counterparts, each of which so executed shall be deemed to be an original, and such counterparts shall together constitute one and the same Contract. The parties shall be entitled to sign and transmit an electronic signature of this Contract (whether by facsimile, PDF or other email transmission), which signature shall be binding on the party whose name is contained therein. Each party providing an electronic signature agrees to promptly execute and deliver to the other party an original signed Contract upon request.

In witness whereof, the parties hereby have made and executed this Agreement as of the day and year first above-written.

SANTA ANA WATERSHED PROJECT AUTHORITY

Jeffrey J. Mosher, General Manager Date

WOODARD & CURRAN

(Signature) Date

Typed/Printed Name

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**SANTA ANA WATERSHED PROJECT AUTHORITY
TASK ORDER NO. W&C376-01**

CONSULTANT: Woodard & Curran **VENDOR NO.:** 1980
515 S. Flower Street, 18th Floor
Los Angeles, CA 90071

COST: \$620,000.00

PAYMENT: Upon Receipt of Proper Invoice

REQUESTED BY: Rachel Gray, Water Resources & Planning Manager February 18, 2025

FINANCE: _____
Karen Williams, Deputy GM/CFO Date

FINANCING SOURCE: Acct. Coding: 376-00-60121-01
Acct. Description: Consulting – General

COMMITTEE AUTHORIZATION REQUIRED FOR THIS TASK ORDER: YES (X) NO ()
Authorization: February 18, 2025; CM#2025.15

This Task Order is issued upon approval and acceptance by the Santa Ana Watershed Project Authority (SAWPA) and Woodard & Curran (Consultant) pursuant to the General Services Agreement between SAWPA and Consultant, entered into on February 18, 2025, expiring December 31, 2028.

I. PROJECT NAME OR DESCRIPTION

Climate Adaptation and Resilience Plan (CARP) for the Santa Ana River Watershed

II. SCOPE OF WORK / TASKS TO BE PERFORMED

Consultant shall provide all labor, materials, and equipment for services to provide support of ICARP Grant: Project Administration, Reference Material Review, Public Agency Engagement Preparation, Implement Public Agency Engagement Plan, Watershed Resiliency Metrics/ Indicators, Community and Tribal Engagement, Digital Presence for CARP, and CARP Development, as well as, optional tasks to develop an Enhanced Online Tool, Climate Change Factors, Regional Adaptation Project, and Facilitate Decision Maker Support.

III. PERFORMANCE TIME FRAME

Consultant shall begin work February 18, 2025, and shall complete performance of such services by **April 30, 2027**.

IV. SAWPA LIAISON

Rachel Gray shall serve as liaison between SAWPA and Consultant.

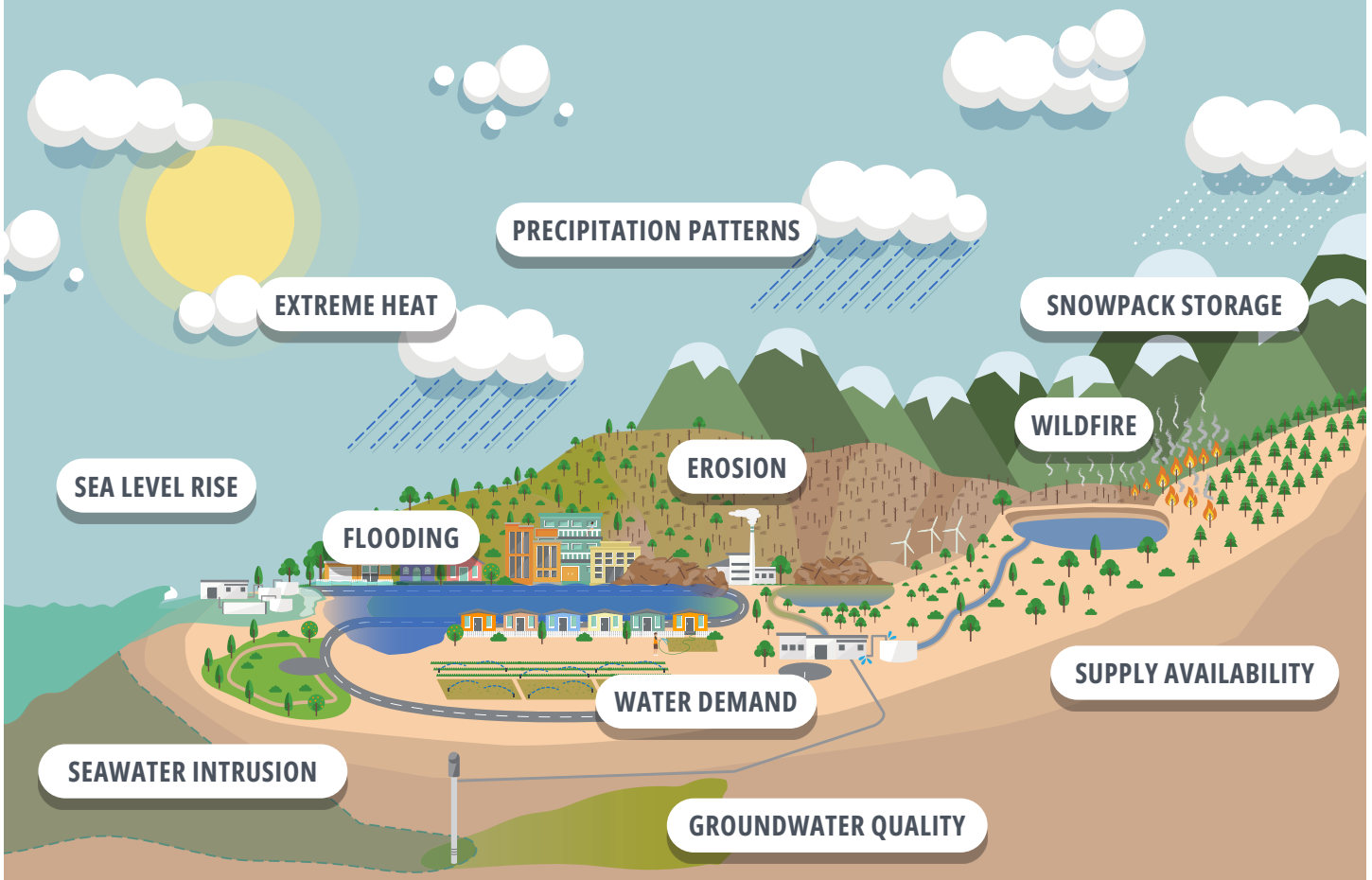
V. COMPENSATION

For all services rendered by Consultant pursuant to this Task Order, Consultant shall receive a total not-to-exceed sum of **\$620,000.00**. Payment for such services shall be made monthly upon receipt of timely and proper invoices from Consultant, as required by the above-mentioned Agreement. Each such invoice shall be provided to SAWPA by Consultant within 15 days after the end of the month in which the services were performed. All such invoices shall be sent via-email to Apinvoices@sawpa.gov, or as otherwise directed in writing by SAWPA.

Proposal for the Development of a

Climate Adaptation and Resilience Plan (CARP)

for the **Santa Ana River Watershed**



January 23
2025

Cover Letter



Proposal for the Development of a Climate Adaptation and Resilience Plan (CARP) for the Santa Ana River Watershed

Via PlanetBids

January 23, 2025



Sara Villa
Santa Ana Watershed Project Authority
11615 Sterling Avenue
Riverside, CA 92503

Re: Proposal for the Development of a Climate Adaptation and Resilience Plan (CARP) for the Santa Ana River Watershed

Dear Ms. Villa:

We are excited for the opportunity to further our relationship with Santa Ana Watershed Project Authority (SAWPA) by supporting the development of a Climate Adaptation and Resilience Plan (CARP) for the Santa Ana River Watershed. The success of the CARP hinges upon leveraging and unifying the technical resources and local knowledge available in the region surrounding climate change risks and resilience opportunities.

We have carefully selected a team that excels in navigating the diverse technical and social synergies needed for identifying and evaluating climate risks and adaptation strategies for the region. What sets our team apart from others includes:

- Expertise in regional water resources and integrated planning in Southern California including through the Integrated Regional Water Management Program and through projects directly with SAWPA and its member agencies
- Technical expertise across both the water and environment sectors
- Project Manager with extensive experience with stakeholder engagement and strategic communications
- Climate leader in an award-winning innovative climate risk assessment tool that supports public agencies in assessing and mitigating risk related to climate change across the country.

Our Key Team Members include our Project Manager, **Katie Evans**, who's outreach and engagement expertise will navigate and facilitate information gathering across the CARPs three engagement pathways into a cohesive voice for the plan. **Persephene St. Charles** will serve as our Principal-in-Charge and Regional Coordination Lead, bringing extensive regional planning experience to ensure the success of the CARP effort. Lastly, **Matthew Jones**, our Climate Resilience Lead, brings national experience in climate modeling, risk assessments, and adaptation strategy development for public agencies that will enhance several core elements of the CARP. Our Key Team Members will be supported by technical experts and support staff across various specialties to address the range needs for climate change planning.

Based on our understanding of your project goals, we identified four key strategies as our approach to the scope of work for the CARP, which include:



- Facilitating a holistic yet streamlined planning process
- Getting meaningful input through effective engagement
- Integrating existing data and new input to advance regional resilience
- Planning focused on implementation and continued support

Section 4 of this proposal (Project Approach, Tasks, and Schedule) identifies the project tasks and deliverables, as well as details our approach to completing the work outlined in the request of proposals (RFP). A complete contractually compatible scope of work is referenced in this section and included in Appendix 5 (Other Information). Our approach highlights how specific aspects of the scope will be the keys to completing the CARP tasks as identified in the RFP.

Thank you for considering Woodard & Curran for this important project. If you have any questions or require any additional information, please contact me at kevans@woodardcurran.com or 858.875.7415. We look forward to supporting SAWPA with its climate resiliency initiatives.

Sincerely,

Woodard & Curran, Inc.

A handwritten signature in blue ink, appearing to read "Katie Evans".

Katie Evans
Project Manager, Vice President

A handwritten signature in blue ink, appearing to read "Persephene St. Charles".

Persephene St. Charles, ENV SP
Principal-in-Charge, Senior Vice President

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Proposal for the Development of a Climate Adaptation and Resilience Plan (CARP) for the Santa Ana River Watershed



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Section 1

Project Understanding



Proposal for the Development of a Climate Adaptation and Resilience Plan (CARP) for the Santa Ana River Watershed

1 | Project Understanding

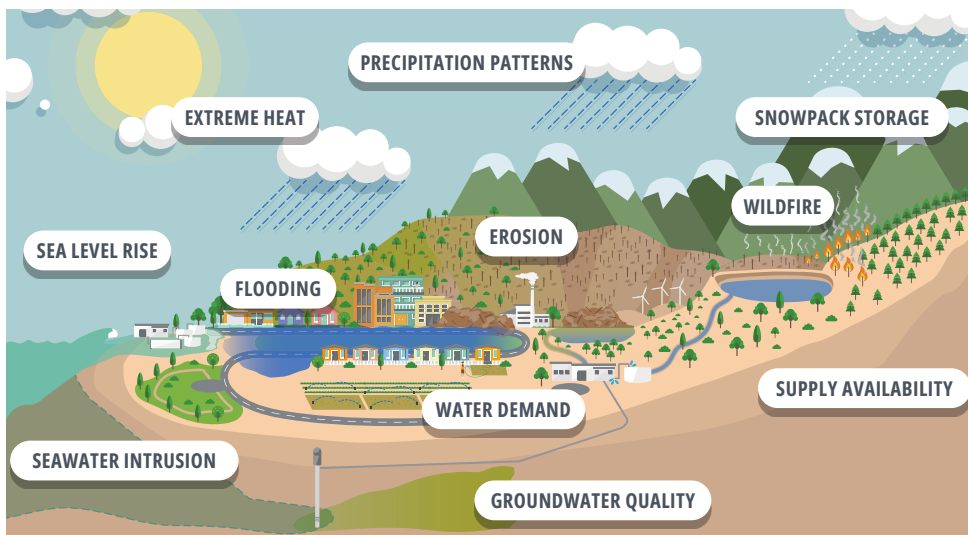
The Santa Ana Watershed Project Authority (SAWPA) is developing a comprehensive and actionable Climate Adaptation and Resilience Plan (CARP) for the Santa Ana River Watershed. The effort centers around creating a community-informed, stakeholder-driven, and implementation-focused plan that leverages the collaborative and integrated planning completed for the One Water One Watershed (OWOW) Plan. The CARP’s primary objectives are to address climate risks such as wildfires, sea level rise, drought, flooding, increasing temperatures, and extreme heat events, while prioritizing projects that benefit the most vulnerable communities and ensure equitable outcomes.

As a regional leader in water resources for the Santa Ana River Watershed, SAWPA is leading the effort to support member agencies, stakeholders, tribes, and the community in collecting, synthesizing, and disseminating key climate change vulnerabilities and adaptation strategies for the region. SAWPA’s successes in Integrated Regional Water Management (IRWM) planning has created the foundational elements the CARP can build from, leveraging both regional climate change assessments and the extensive OWOW stakeholder network.

To be successful, SAWPA is seeking a consultant that can appropriately scale the CARP development effort to the planning-level analysis and diverse stakeholder engagement desired for the plan. The consultant’s role is to create a bridge across the diverse technical sectors and stakeholder groups that will cover the breath of the plan. The consultant will build on existing data and new input gathered through public agency, tribe, and community engagement pathways to advance regional resilience planning.

To meet SAWPA’s goals, the plan will need to:

- **Get meaningful, consistent, and cohesive information through effective engagement. With multiple sources of information coming from multiple stakeholder groups, the project will need to translate the information into a cohesive and clear voice.**
- **Build successfully upon work already completed to develop a regional plan that goes beyond previous efforts and addresses key social, economic, and regulatory constraints that may hinder adaptation strategies.**
- **Create an implementable plan with resilience portfolios that can move forward into fundable regional projects.**



Climate change creates impacts that are widespread across a watershed, yet the risks can be felt differently by different stakeholder groups including public agencies, tribes, and communities. Approaching planning using a collaborative approach to develop and prioritize regional strategies and projects supports the interconnection between these impacts.

Section 2

Firm Background



Proposal for the Development of a Climate Adaptation and Resilience Plan (CARP) for the Santa Ana River Watershed

2 | Firm Background

Established in 1979, Woodard & Curran is a privately held integrated planning, engineering, science, and operations company. Our organization has 1,300 water and environment professionals serving public and private clients from 26 office locations across the United States, with seven offices in California. Over the past 30 years, we have worked with hundreds of state, regional and local water-related agencies and entities on providing meaningful, collaborative planning processes that result in implementable solutions that improve the sustainability of our shared water resources. Woodard & Curran's planning processes reflect a belief in the importance of both technical analysis as well as engagement and communication.

Regional Climate Adaptation Planning



We have prepared Climate Action and Resilience Plans for local agencies and helped to identify impacts of extreme heat, drought, wildfire, flooding, and sea level rise on infrastructure and facilities.

Climate change adaptation and mitigation analysis is ingrained in all of our regional and integrated planning. Our teams have worked directly with the California Department of Water Resources (DWR) on the IRWM, Watershed Resilience, CA Water Plan and Watershed Hub, SGMA, and FloodMAR programs – giving us useful experience in building and working with state climate related datasets and metrics as well as a clear understanding of state funding priorities and requirements.

We have used this expertise to create climate responsive analytical frameworks unique to individual regions that help to identify climate change impacts, prioritizing vulnerabilities, and understand the efficacy of potential multi-benefit water and land management strategies - including system and operational changes, infrastructure development and retrofits as well as policy and regulatory recommendations. Our Woodard & Curran team also benefit from expertise in direct implementation of hazard mitigation and climate change projects and meeting resiliency obligations of every scale.

Collaborative Stakeholder Engagement

As a co-equal part of our planning processes, Woodard & Curran teams include in-house experts in water resources multi-party partnership facilitation, stakeholder engagement and community outreach. We create tailored project engagement plans at the onset of every planning project to identify the individual audiences, the information flows, and the mechanisms that will generate meaningful collaboration and input. Our teams use innovative methods to provide education, get necessary input, generate useful feedback, support decision-making, and garner implementation support. By having in-house engagement experts, we eliminate internal project communication barriers and are able to fully leverage our technical work to develop sustainable and supported projects and programs.



Our proposed Project Manager, Katie Evans, is an expert in water resources planning engagement and communications. She is well suited to partner with Soboba, ISC3 and SAWPA on overall CARP engagement.

Section 3

Firm Experience



Proposal for the Development of a Climate Adaptation and Resilience Plan (CARP) for the Santa Ana River Watershed

3 | Firm Experience

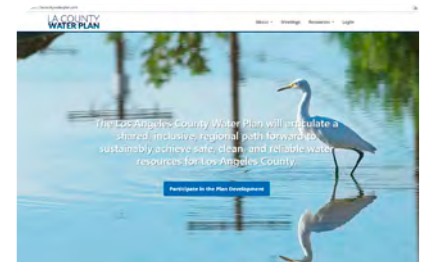
Woodard & Curran has extensive experience delivering engineering services for a wide range of projects: from small-scale work to large, complex, multi-service contracts. Below we have included a selection of representative projects that demonstrate our proposed team’s capabilities performing similar services as those outlined in the Scope of Work. All projects are within the last five years, and our associated client references are located in Appendix 2.

Los Angeles County Water Plan | Los Angeles County Public Works

Staff Involved: Persephene St. Charles, Katie Evans, Dawn Flores, Ryan Hirano, Jeanna Long

Project Dates: 2020-ongoing

Woodard & Curran facilitated engagement with over 100 water-related agencies and interested parties to develop the first ever LA County Water Plan (CWP). Viewed as IRWM 2.0, our team facilitated over 20 agency working group sessions and 30 subregional and special interest stakeholder meetings to develop targets, strategies to achieve County-wide resilience in Regional Supply Reliability, Groundwater Management & Quality, Small, At-Risk System Resilience & Drinking Water Equity, and Watershed Wildfire and Sediment Management. We developed a Planning Portal website that displays progress tracking on all 16 targets generated from multiple data sources and processes. We are currently facilitating the implementation of the 2-year action plans by working with regional task forces and providing overall program support to Los Angeles County Public Works (LACPW).



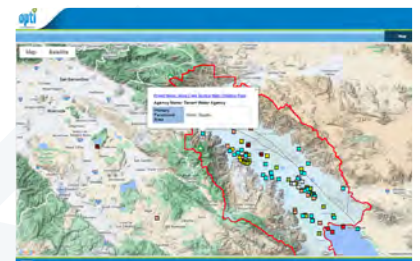
Why it’s relevant to SAWPA: *Demonstrates multi-party regional resilience planning with extensive agency and stakeholder involvement, numerical target and metric tracking and on-line data visualization.*

Climate Vulnerability Assessments | Coachella Valley, San Diego, Greater Los Angeles Basin, Santa Barbara County, Antelope Valley and Upper Santa Margarita Watershed IRWM Regions

Staff Involved: Katie Evans, Persephene St. Charles, Haley Johnson, Melissa Matlock, Dawn Flores, Ryan Hirano, Jeanna Long, Brenda Ponton, Richard Harmon, Reza Namvar

Project Dates: 2005-ongoing

Since 2005, Woodard & Curran has supported 22 regions in the development and management of their IRWM programs. Through our work on plan development, technical studies, project concept development and funding program applications, we have facilitated hundreds of workshops including those focused on identifying and prioritizing climate change impacts and vulnerabilities, identifying adaptation and mitigation strategies, developing climate change objectives and targets, and incorporating climate change into project prioritization. Additionally, we implemented our one-of-a-kind web-based Opti project database platform and communication tool that helps stakeholders share, track, and report project information.



Why it’s relevant to SAWPA: *Demonstrates application of state guidance on development of regional climate vulnerability assessments and enhanced portal development.*

Calaveras River Watershed Resilience Plan | Stockton East Water District

Staff Involved: Katie Evans, Persephene St. Charles, Clayton Marcotte, Ryan Hirano

Project Dates: 10/2024-ongoing

Woodard & Curran developed and is facilitating a watershed network of multiple agencies and interested parties to develop one of the first plans and planning processes under DWR's Watershed Resilience Program. Funded through a Pilot grant, our team is helping Stockton East Water District and DWR develop methodologies and lessons learned for further Watershed Program guidance aimed at building regional resilience through multi-benefit, nature-based solution projects, and integrated resource management, while focusing on equitable engagement. Our team is using previous modeling work on the DWR FloodMar program as the foundation of analytical framework that is being enhanced to incorporate ecological, wildfire/land management elements for a more holistic assessment of climate vulnerabilities and adaptation strategies. By referencing potential Watershed Hub metrics, our team is preparing performance tracking methods and indicators to support future data collection and analysis.



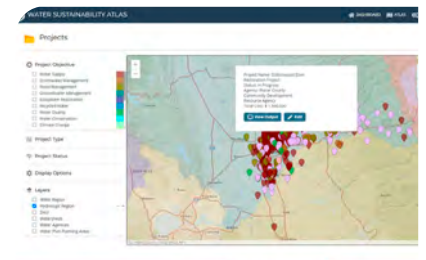
Why it's relevant to SAWPA: *Demonstrates experience working with a DWR-funded planning process with a similar watershed resilience focus scope and approach.*

Watershed Hub | California Department of Water Resources

Staff Involved: Jeanna Long

Project Dates: 2018-2022

Woodard & Curran developed DWR's Watershed Hub, an innovative communication tool that allows California to track progress toward achieving water resilience and ecosystem health through sustainable water management and multi-benefit approaches. The web based, GIS-enabled Hub revolutionizes how local agencies share proposed projects or accomplishments, project value, and lessons learned by communicating successful partnerships, past or present investments, and future investment needs to enable transparent, accountable, and effective investments. Agencies can report progress toward intended outcomes, substantiate return on investment, and enable adaptive project management.



Why it's relevant to SAWPA: *Highlights our experience with DWR metrics that are being developed for use by the Watershed Resilience Program and funding.*

Biodiversity Enhancement Guidebook | Confidential Client

Staff Involved: Katie Evans

Project Dates: 12/2023-4/2024

Woodard & Curran developed a comprehensive catalogue detailing over 50 environmental and biodiversity enhancement measures utilizing nature-based solutions tailored for various ecological settings. The solutions were developed to mitigate against climate change in a wide range of regions at project sites. Each entry features concise descriptions highlighting conservation objectives, estimated costs, technical feasibility considerations, maintenance



requirements, performance indicators for success, and planning timelines that allow managers at project sites to find a project they can implement at their location.

Why it's relevant to SAWPA: *Highlights expertise in ecological impact analysis and ecological planning in a way that resonates with non-experts for decision-making.*

Joint Water Supply Concept Development | Southwestern Riverside County Water Alliance

Staff Involved: Persephene St. Charles

Project Dates: 2021-2024

Since 2021, Woodard & Curran has been facilitating a collaborative regional effort between Eastern Municipal, Elsinore Valley, Rancho California, and Western Municipal Water Districts looking for the opportunities to develop large-scale water resources projects for the Inland Empire. Using concept fact sheets and simple visual analysis methods, we achieved consensus among agencies on moving forward three regional concepts for further feasibility analysis including new coastal ocean desalination, local stormwater enhancement, and regional groundwater storage/banking program to diversify their regional water supply portfolio.



Why it's relevant to SAWPA: *Highlights our experience working with SAWPA member agencies on regional planning with individual agency benefit analysis.*

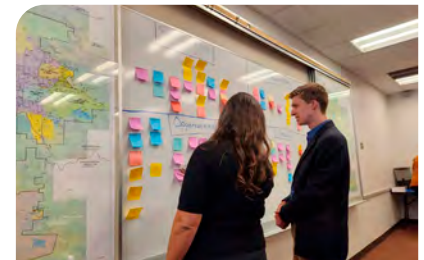
Integrated Planning and Outreach Services | Eastern Municipal Water District

Staff Involved: Katie Evans, Persephene St Charles, Dawn Flores, Reza Namvar, Haley Johnson

Project Dates: 2022-ongoing

Since 2000, Woodard & Curran has supported Eastern Municipal Water District (EMWD) with a wide variety of services and support. The most recent and relevant projects aspects to the CARP are the following.

- **Water Supply Strategic Planning Study:** Developed assumptions regarding the impacts of climate change on demand, local water supplies, and State Water Project supplies to determine the reliability of current and potential EMWD supplies under a range of scenarios.
- **Expansion of Living Landscapes Program:** Facilitated a visioning workshop; prepared a public opinion survey for market analysis; and developed microsite and back-end database for program processing, marketing materials, and community outreach.
- **San Jacinto Groundwater Model:** Developed and updated regional San Jacinto groundwater model to support analysis and implementation of water resources management projects within the EMWD water service area - including coordination with the Soboba Tribe on gathering data and input data.



Why it's relevant to SAWPA: *Demonstrates a range of integrated planning, community outreach, and technical modeling expertise completed within SAWPA's region.*

Santa Ana River Conservation and Conjunctive Use Program Management | SAWPA

Staff Involved: Jeanna Long, Brenda Ponton

Project Dates: 2016-ongoing

Woodard & Curran is providing Program Management services for the Santa Ana River Conservation and Conjunctive Use Program (SARCCUP) which banks wet year water for use by all five member agencies during

dry water year conditions. The Program also includes in-stream conservation efforts and environmental habitat enhancements for the endangered Santa Ana Sucker. Woodard & Curran is supporting SAWPA with grant reporting using our Opti PM platform that tracks project information, schedule, budget, deliverables, documents, invoices, progress reports, project communications, and DWR reporting.



Why it's relevant to SAWPA: *Demonstrates direct experience working with SAWPA and member agencies on regional planning and implementation using a digital platform.*

Santa Ana River Watershed Stormwater Resource Plan | Riverside County Flood Control & Water Conservation District

Staff Involved: Dawn Flores, Brenda Ponton

Project Dates: 2021-2023

Woodard & Curran led the development of a Stormwater Resource Plan for the Riverside County portion of the Santa Ana River Watershed. The plan identifies water quality priorities and projects to improve water quality in impaired water bodies, increase groundwater recharge, and protect or enhance key habitats. Woodard & Curran's work included coordinating with stakeholders to identify multi-benefit stormwater and dry weather runoff capture project opportunities, prioritizing projects based on watershed priorities, and developing an implementation strategy for the plan. Woodard & Curran also facilitated public meetings to promote engagement during plan development.



Why it's relevant to SAWPA: *Demonstrates regional technical planning expertise and working with stakeholders in the Santa Ana Watershed region.*

Indio Subbasin Alternative Plan | Coachella Valley Water District

Staff Involved: Katie Evans, Persephene St. Charles, Ryan Hirano, Arthella Vallarta, Dawn Flores, Haley Johnson, Brenda Ponton, Jeanna Long, Richard Harmon

Project Dates: 2019-2022

Woodard & Curran prepared an update to the Indio Subbasin Alternative Plan that was required by DWR in accordance with Sustainable Groundwater Management Act, to ensure that current and future water demands within the Indio Subbasin are reliably met in a cost-effective and sustainable manner. The Project includes revised demand and supply projections, evaluation of groundwater conditions, development of a hydrogeological conceptual model, creation of a monitoring program, development of sustainable management criteria, identification of additional emerging water quality issues, and evaluation and development of projects and management actions to achieve sustainability. Of particular importance was the facilitation of Tribal Workgroup meetings.



Why it's relevant to SAWPA: *Shows expertise with tribal and underserved community engagement in regional planning.*

Sea Level Rise Adaptation Assessment | City of Millbrae

Staff Involved: Millie Cowley-Crawford

Project Dates: 2020-2022

Woodard & Curran prepared a sea level rise adaptation assessment for Millbrae. Work included mapping of inundation areas, coordination with regional partners and public outreach to communicate flood risk and identify potential shoreline solutions for further study and funding. The assessment has allowed the City to plan for sea level rise by identifying potential mitigations, adaptation, and hazard mitigation strategies. Several approaches and strategies were essential to meeting these project goals, including community engagement, City Staff engagement, and stakeholder outreach.



Why it's relevant to SAWPA: *Shows understanding of sea level rise analysis and potential adaptation measures.*

Climate Change Mitigation Plan | Napa Sanitation District

Staff Involved: Haley Johnson

Project Dates: 2022-2023

Woodard & Curran developed a Climate Change Mitigation Plan to help the NapaSan better understand their risks in the face of sea level rise, groundwater level changes, wildfire/public safety power shutoff events, precipitation changes, and temperature changes. The analysis to support this work included GIS mapping of hazards, analysis of current and future "free board" of their pond levees, and development of recommendations that will reduce the District's future risk to a changing climate. Woodard & Curran quantified the potential impact of implementing realistic greenhouse gas reduction measures related to energy efficiency actions at NapaSan's wastewater treatment plant and adopting an aggressive timeline for converting to an efficient fleet. The Climate Change Mitigation Plan includes an interactive Excel workbook that NapaSan can modify in the future. Woodard & Curran also supported NapaSan's Capital Improvement Program by identifying funding opportunities, assessing eligibility and competitiveness, and identifying next steps for projects.



Why it's relevant to SAWPA: *Shows expertise developing traditional Climate Action Plans.*

Climate Hazard Mitigation Plan | Coastal Municipality

Staff Involved: Matt Jones

Project Dates: 2019-2022

Woodard & Curran prepared a public-facing hazard mitigation plan in a community that included multiple Environmental Justice populations that benefited from our team's climate science expertise to develop strategy around assessing climate vulnerabilities, hazards, and identifying mitigation actions to reduce potential risk. Risk analysis included hazards such as sea level rise and coastal inundation with storm surge, severe weather leading to infrastructure and power grid impacts, and local flooding events leading to emergency response and routing challenges.



Why it's relevant to SAWPA: *Highlights our experience working with a municipality to assess climate vulnerabilities and mitigation strategies.*

Section 4

Project Approach, Tasks & Schedule



Proposal for the Development of a Climate Adaptation and Resilience Plan (CARP) for the Santa Ana River Watershed

4 | Project Approach, Tasks & Schedule

This section including the proposed project schedule provided on page 4.2, includes a description of the tasks needed for the successful completion of the project and our approach to delivering the work. A detailed contractually compatible scope of work is included in Appendix 5. The specific tasks for the project include:

- **Task 1:** Project Administration
- **Task 2:** Reference Material Review
- **Task 3:** Public Agency Engagement Preparation
- **Task 4:** Implement Public Agency Engagement Plan
- **Task 5:** Watershed Resiliency Metrics/Indicators
- **Task 6:** Community and Tribal Engagement
- **Task 7:** Digital Presence for CARP
- **Task 8:** CARP Development
- **Optional Task A:** Enhanced Online Tool
- **Optional Task B:** Climate Change Factors
- **Optional Task C:** Regional Adaptation Projects
- **Optional Task D:** Facilitate Decision Maker Support

Our team has developed an approach to supporting SAWPA on these tasks that will enhance the CARP development process. Our approach is highlighted through four main strategies.

- 1 Facilitating a holistic yet streamlined planning process
- 2 Getting meaningful input through effective engagement
- 3 Integrating existing data and new input to advance regional resilience
- 4 Planning focused on implementation and continued support

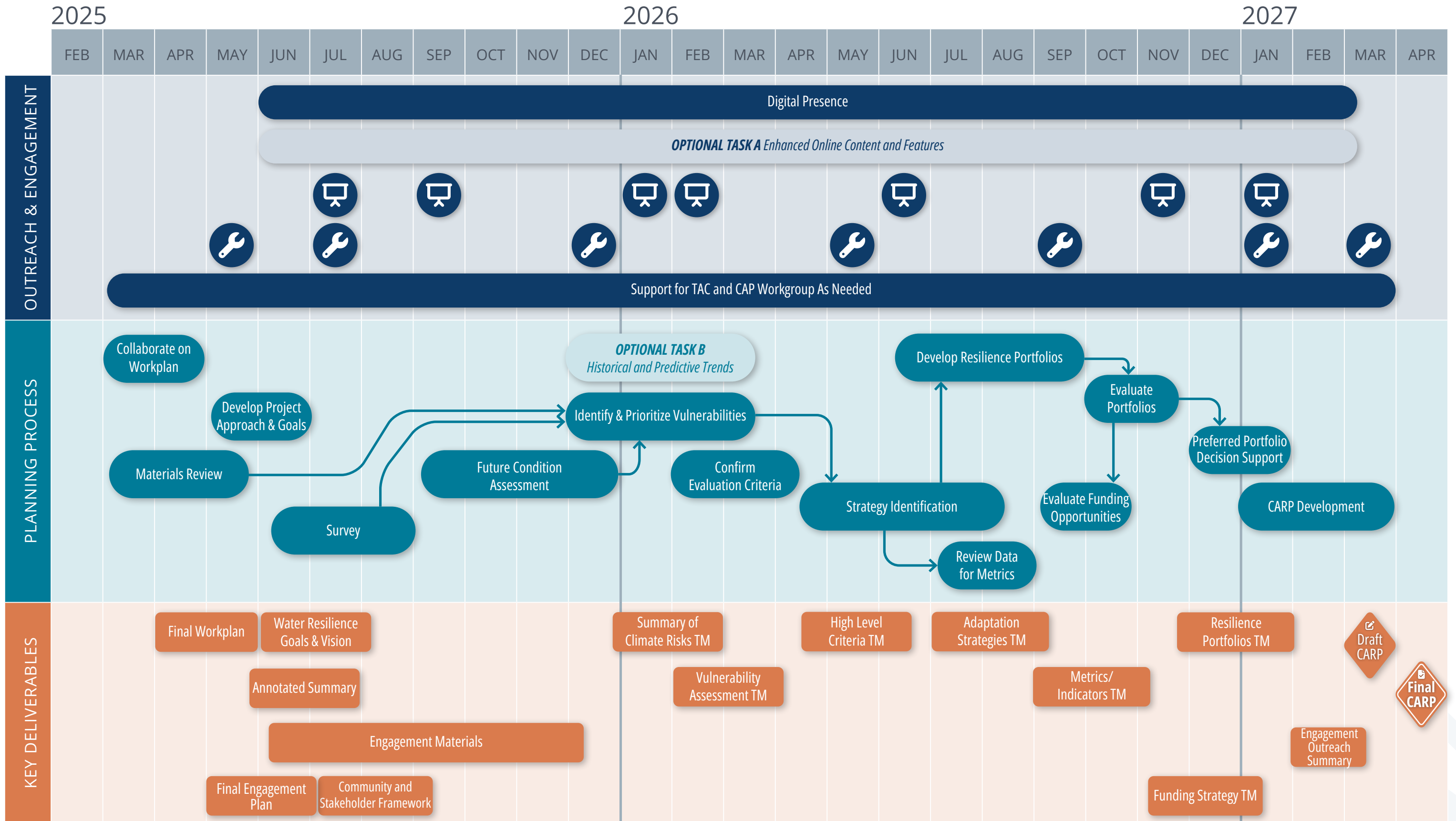
Facilitating a holistic yet streamlined planning process

Our project team and approach reflect a belief in putting equal emphasis on technical analysis and effective engagement for the CARP. Our integrated approach is based on creating a meaningful planning process that focuses on implementation of the resulting plan. Ensuring the adaptation strategies developed in the CARP are not only technically justifiable but also reflective of the priorities and interests of the larger watershed community will maximize the effectiveness of CARP implementation.

Aligning stakeholder engagement with key deliverables

As the schedule on page 4.2 shows, our Project Administration (**Task 1**) approach is to align stakeholder interactions with the technical planning process and key deliverable development that will benefit from their input. Focusing stakeholder involvement to key areas of needed input shows a respect for each stakeholder's individual time and interests, increasing the likelihood of participation.

Project Schedule



Optional Tasks C and D would occur following Final CARP completion.

Informational Presentation Workshop

Efficiently incorporating planning processes into final deliverables

The CARP scope of work includes deliverables that are both important to the process and required in the funding agreement. To find efficiency in development of the deliverables, our Project Manager, **Katie Evans**, has organized the list of project deliverables below into key deliverables and supporting deliverables to illustrate how the work products from each task will build into the final CARP plan as part of **Task 8**. This is further illustrated in the graphical schedule on page 4.2 that will be used as a starting point for the project Work Plan under **Task 1** and highlights the key deliverables at project milestones. Our intention is that many of the key deliverables will be converted into sections of the CARP itself, which means key parts of the plan will be developed and reviewed with stakeholders during the planning process, long before the draft CARP is developed in **Task 8**.

Key Deliverables:

- Draft and Final Project Work Plan
- Draft and Final Watershed Resilience Goal and Vision Statement
- Annotated Summary of Climate Risks and Vulnerabilities, Initial Adaptation Projects, and Sensitivity Factors
- Draft and Final Public Agency Engagement Plan
- Draft and Final Summary of Climate Risks TM
- Draft and Final Vulnerability Assessment TM
- Draft and Final High-level Criteria TM
- Draft and Final Summary of Adaptation Strategies TM
- Draft and Final Resilience Portfolios TM
- Draft and Final Proposed Indicators/Metrics TM
- Community and Stakeholder Framework
- Engagement Outcomes Summary TM
- Funding Strategy TM
- Draft CARP
- Final CARP
- Meeting materials or presentation slides for up to 8 TAC meetings
- Workshop Summaries TMs
- Summary of Virtual Survey Results TM
- Review summaries and written materials from community and tribal engagement process
- Meeting materials or presentation slides for up to 8 CAP sessions
- Revision of Task 4 materials from community and tribal engagement process
- Draft and Final web-based digital online platform for CARP
- Draft and Final materials for online platform
- Meeting materials for CARP Review Workshop
- Meeting materials for presentation of the plan to SAWPA Commission and OWOW Review
- Adoption Meeting Materials

Optional Deliverables:

- Geospatial database
- Enhanced online content
- Interactive elements for community and stakeholder users incorporated into online platform
- Historical and predictive trends summary for climate change factors
- Operating procedures for updating data inputs
- Enhanced Regional Adaptation Projects List and Roadmap
- Meeting agendas, materials, and notes for conversations with elected officials (up to 4)

Supporting Deliverables:

- Project Kickoff Meeting minutes with action items
- Biweekly progress meeting minutes
- Monthly Progress reports
- Slides for SAWPA's Commission status updates
- Meeting materials or presentation slides for up to four OPR presentations
- Online survey components

Getting meaningful input through effective engagement

To ensure we obtain meaningful as well as consistent, and cohesive information from the various stakeholder groups, we will focus on mutual understanding, consistent language, and uniform outcomes. In developing our outreach approach, our team will support the Soboba Tribe and ISC3 in developing their respective outreach plans to bring consistency in data gathering and to align the plans. Our focus will be on collecting diverse types of information from the right audiences, meaning the experts will have opportunities to share their knowledge in a useful way. We will focus on understanding climate impacts across sectors beyond water and evaluating how these impacts create vulnerabilities for different agencies and communities.

Aligning community engagement pathways

To best facilitate the needs of different target stakeholder audiences, SAWPA has created three engagement pathways with different leads. Our team is recommending supporting the efficacy of this approach by facilitating up front collaboration with the three pathway leads at the onset of the planning process during **Task 3**. Additionally, we can support the **Task 6** engagement process ISC3 is leading via material review, advisement, and knowledge sharing. We will coordinate on the planning process and synthesize the feedback received with our own public agency engagement to develop a framework that incorporates this critical input into materials on risks, vulnerabilities, adaptation strategies, resiliency, and the plan. We will build upon the OWOW Plan engagement strategies and stakeholder relationships to identify gaps and areas for expansion as we proceed with this effort.



Developing an accessible Engagement Plan with digital tools

In order to get meaningful input, our approach focuses on making participation convenient and focused. We are proposing exercises to collect information, with the goal of assessing shared impacts. Our initial Engagement Plan will identify key stakeholders, significant issues and opportunities for input, and the best mechanisms for engagement. As we develop the Engagement Plan in **Task 3**, we will leverage online tools like surveys, document sharing, and (as directed) virtual workshops via a digital online presence developed under **Task 7**. We are increasingly finding that traditional workshops are not always the best practice for soliciting input, so our team is ready to shift to other engagement platforms that can be more effective



Through tools like online discussion boards, Woodard & Curran has successfully leveraged online tools for engagement.

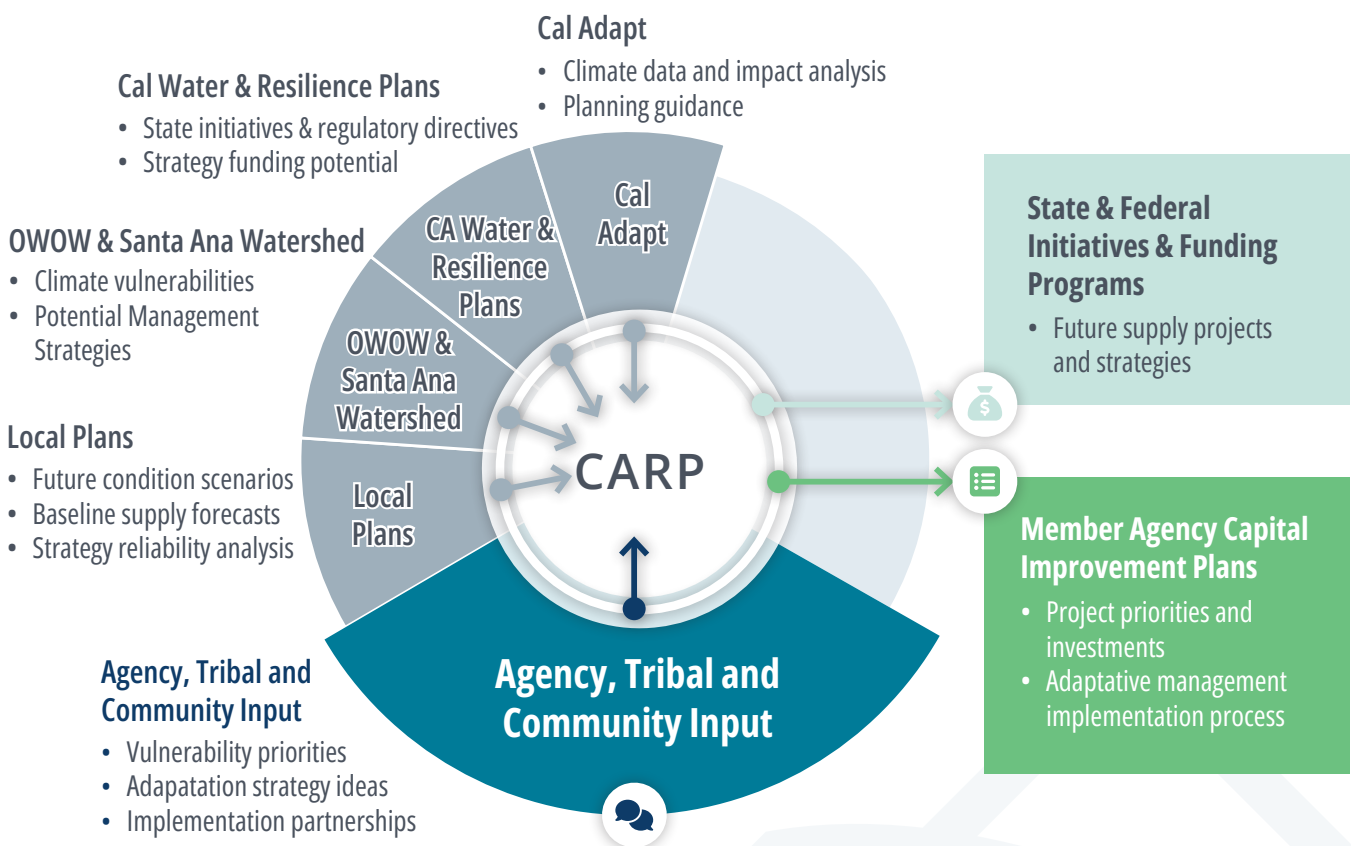
such as online discussion boards, surveys, or virtual exercises. The project will have a dedicated website where the Project Team can share information, post important documents, and allow stakeholders to engage. The Engagement Plan will also include a project schedule that we can provide to stakeholders upfront so they understand the level of commitment to the process and can plan accordingly.

Integrating existing data and new input to advance regional resilience

SAWPA has facilitated years of regional planning and studies in the Santa Ana River Watershed. Our team’s approach will leverage the results and knowledge gained from previous technical work to focus CARP grant funds on cohesive collaboration in developing, implementing, and tracking climate resilience strategies.

Eliminating academic analytical rabbit holes

A lot of work on climate change datasets and impacts has been completed regionally and at the state level. By using both Cal-Adapt data and planning processes, we already have a reasonable assessment as to the future impacts of climate change on temperature, precipitation, and hydrology. As part of **Task 2** our team will use these predicted impacts to determine the greatest risks to the Santa Ana River Watershed’s land, economic, and ecological resources. By taking this qualitative approach to risk and vulnerability potential, we can eliminate the potential for going down analytical rabbit holes and instead focus on prioritizing the risks and vulnerability using input from underserved communities, tribes, water management agencies, and other impacted/interested parties.



Our team has already participated in or reviewed much of the existing relevant materials – allowing us to minimize our level of effort needed to complete the Task 2 materials review.

Creating a consistent, prioritized vulnerability matrix

At the onset, it is critical that each of the three engagement pathways use the same technical nomenclature and have a shared understanding of the input needed to prioritize risks and focus adaptation strategies.

We propose to create an initial climate vulnerability matrix under **Task 4** that has been pre-populated from the matrix in the 2018 OWOW Plan Update. Our technical team will meet with the three engagement leads at the start of the project to walk through the matrix and revise as needed. Once each engagement team is on the same page as to what input is needed, they can then determine how best to get that input from their target audience.

Table 5.4-1. Watershed Vulnerabilities to Climate Change

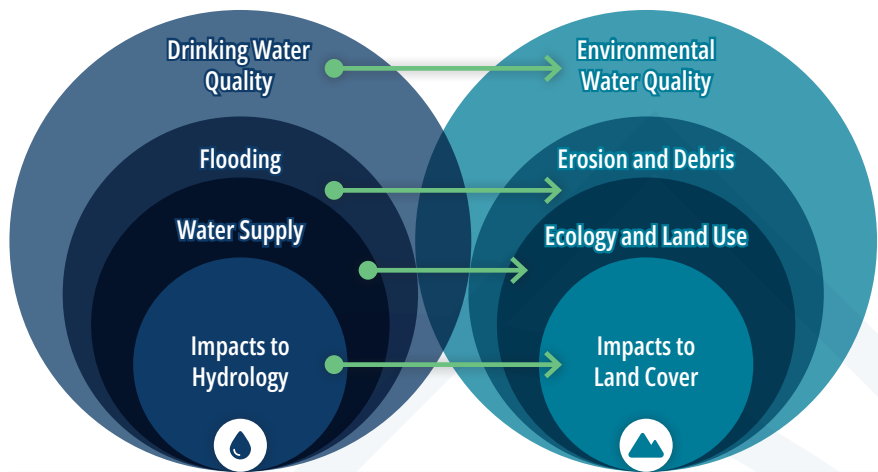
Category	Vulnerability	Resource Management Strategies
Water supply	Insufficient local water supply	Agricultural Lands Stewardship Agricultural Water Use Efficiency Conjunctive Management and Groundwater Storage Conveyance – Regional/Local Desalination Economic Incentives (Loans, Grants, and Water Pricing) Ecosystem Restoration Forest Management Groundwater Remediation/Aquifer Remediation Land Use Planning and Management Matching Quality to Use Outreach and Engagement Recharge Area Protection Recycled Municipal Water Salt and Salinity Management System Reoperation Urban Runoff Management Urban Water Use Efficiency Water Transfers Watershed Management
	Increased dependence on a less reliable imported supply	Conjunctive Management and Groundwater Storage Conveyance – Delta Conveyance – Regional/Local Desalination Economic Incentives (Loans, Grants, and Water Pricing) Ecosystem Restoration Forest Management Groundwater Remediation/Aquifer Remediation Matching Quality to Use Outreach and Engagement Recharge Area Protection Recycled Municipal Water Salt and Salinity Management Sediment Management Surface Storage – Regional/Local System Reoperation Urban Water Use Efficiency Water Transfers Watershed Management

Our initial matrix will be based on the OWOW Plan watershed vulnerabilities that can be updated to reflect priorities similar to our work with the San Diego and Coachella IRWM regions.

Developing water resources, then land management strategies

Climate change impacts water, land, economics, ecological health, community health, and urban development which all exist within a watershed – making it sometimes difficult to set boundaries around the scope of a water resources focused climate study. Through Woodard & Curran’s work on the Calaveras Watershed Resilience Pilot and the California Watershed Hub, we know DWR is looking to evolve the IRWM funding program into a Watershed Resilience focus. The scope of work for the CARP grant heavily reflects the scope of DWR’s Watershed Resilience Pilot program and highlights DWR’s interest in exploring land management planning (urban or ecological) as a necessary component of creating a meaningful watershed plan.

Our proposed project team includes experts from both our water and environment business units that are experienced in collaborating to identify synergies across these climate impact sectors to create multi-benefit strategies. For our work under **Task 4**, we will start first with understanding impacts, vulnerabilities, and strategies related to water resources (as the primary driver) and then integrate in the secondary land management impacts that are highly correlated.



Climate change impacts both water and land resources and creates different but related risks and opportunities. For the CARP, water quality can be an easy place to start leveraging these synergies.

Evaluating integrated resilience portfolios instead of individual strategies

Our team would like SAWPA to consider shifting strategy evaluation from the individual adaptation strategy stage to the combined resilience portfolio stage. Given the multi-benefit and synergistic nature of this work, it is conceivable that the benefits of many of the individual identified strategies would be more fully realized when in combination with other individual strategies. Our team has found that to be especially true when assessing the value of water supply development strategies that are dependent upon operational and storage strategies (like groundwater recharge) to realize the full potential to enhance water supply reliability. This is also true when considering how best to assess the importance of land management strategies to

Criteria Name	Description	Metric	Data Source	Scoring Assignment	Weight	Actions
1. Overall Reliability Update	Potential frequency and depth of shortages under the climate change/extended dry scenario.	Quantitative	MANUAL	0.00: Over 20% shortage 0.33: 10% to 20% shortage 0.67: 5% to 10% shortage 1.00: 0% to 5% shortage	0.3	
2a. Reliability 12 mo. DWR loss	Reliability with 12 months DWR loss	Quantitative	MANUAL	0.00: Over 20% shortage 0.33: 10% to 20% shortage 0.67: 5% to 10% shortage 1.00: 0% to 5% shortage	0.08	
2b. Reliability 12 mo. CIA loss	Reliability with 12 mo. CIA loss	Quantitative		0.00: Over 20% shortage 0.33: 10% to 20% shortage 0.67: 5% to 10% shortage 1.00: 0% to 5% shortage	0.08	
3. Reliability 12 mo. w/vehicle max.	Reliability if all wholesale contracts require max. wholesale.	Quantitative	MANUAL	0.00: Over 20% shortage 0.33: 10% to 20% shortage 0.67: 5% to 10% shortage 1.00: 0% to 5% shortage	0.08	
4. Cost Efficiency		Quantitative	AUTOMATED	0.00: Over \$3,800/AF 0.33: 0% to \$3,800/AF (Full service treated Tar 1) 0.67: 0% to \$3,100/AF (Full service untreated, Tar 2) 1.00: 0% to \$3,800/AF (Full service untreated, Tar 1) 0.00: No score 0.33: QMGs per AF are over maximum of 0.61 tons CO2e/AF	0.15	

Our team can use either our web-based IP Tool for the development and evaluation of resilience portfolios or just the backend Excel-based integrated portfolio development and evaluation workbook. The IP Tool could provide a valuable interface as part of the Optional Tasks A and C by allowing for future transparent and dynamic planning that extends beyond completion of the initial CARP.

addressing potential water-related climate impacts. Our team proposes to also use the engagement pathways to gather input to help our team develop and weight portfolio evaluation criteria for use in this process during **Task 4**. If there is a desire to streamline the initial list of strategies in advance of portfolio building, we will conduct a strategy screening process using basic thresholds.

Since the distribution of benefits across the Santa Ana River Watershed has been noted as an important criterion, we will evaluate portfolios using an assessment of both total benefit distribution and benefits by agency/geography.

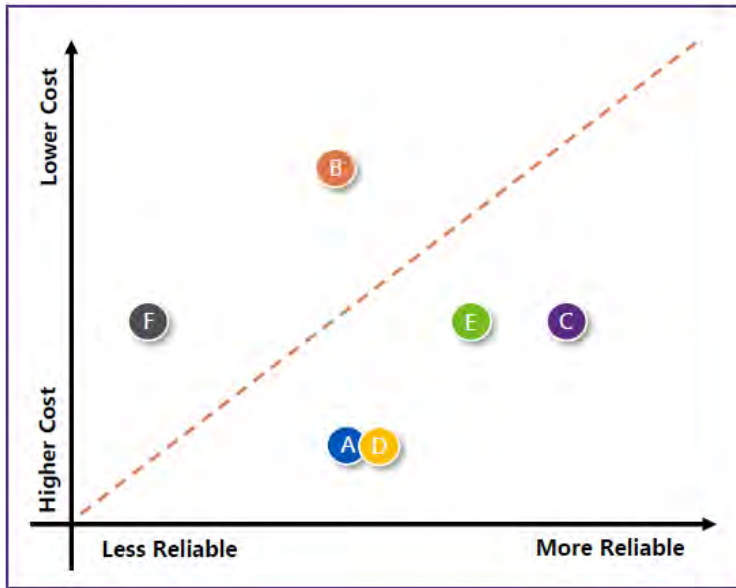
Planning focused on implementation and continued support

The true test of a plan's value is the ability to implement the decisions made and the directions given. Our approach considers implementation throughout the planning process from ensuring the right stakeholders are proving valuable input, to creating justifiable technical analysis, to creating adaptation strategies that have a real chance of navigating the myriad of potential political, regulatory, and financial challenges that can arise in the future. Highlighting early implementation successes through strong progress tracking helps realize the potential for continued support and funding for CARP implementation.

Creating implementation criteria that support decision making

There are a variety of potential future barriers to portfolio implementation such as financing needs, meeting external funding requirements, rising above other priorities for elected officials, public perception, and new regulatory requirements. Even the best engineered solution still needs these addressed in order to come online. Our approach is to start with having the right people and interests engaged in the process early and often so we can get concerns and issues of perception known and addressed as part of building adaptation strategies and overall resilience portfolios. By assigning multiple implementation-related evaluation criteria, we will be able to fully assess how well portfolios will perform relative to those criteria during **Task 5** – helping decision makers with determining likely outcomes or to engage them in starting to lay the groundwork for easing implementation of key strategies through collaborative support.

We use a dynamic decision support process that includes a user-friendly analytical framework, enabling the region to adapt to changing conditions, regulations, funding, and politics. This framework will move beyond basic weighted criteria scoring by using visuals to highlight real-world tradeoffs between alternatives. It will also provide mechanisms for tracking and communicating progress on plan implementation through the CARP's digital platform.



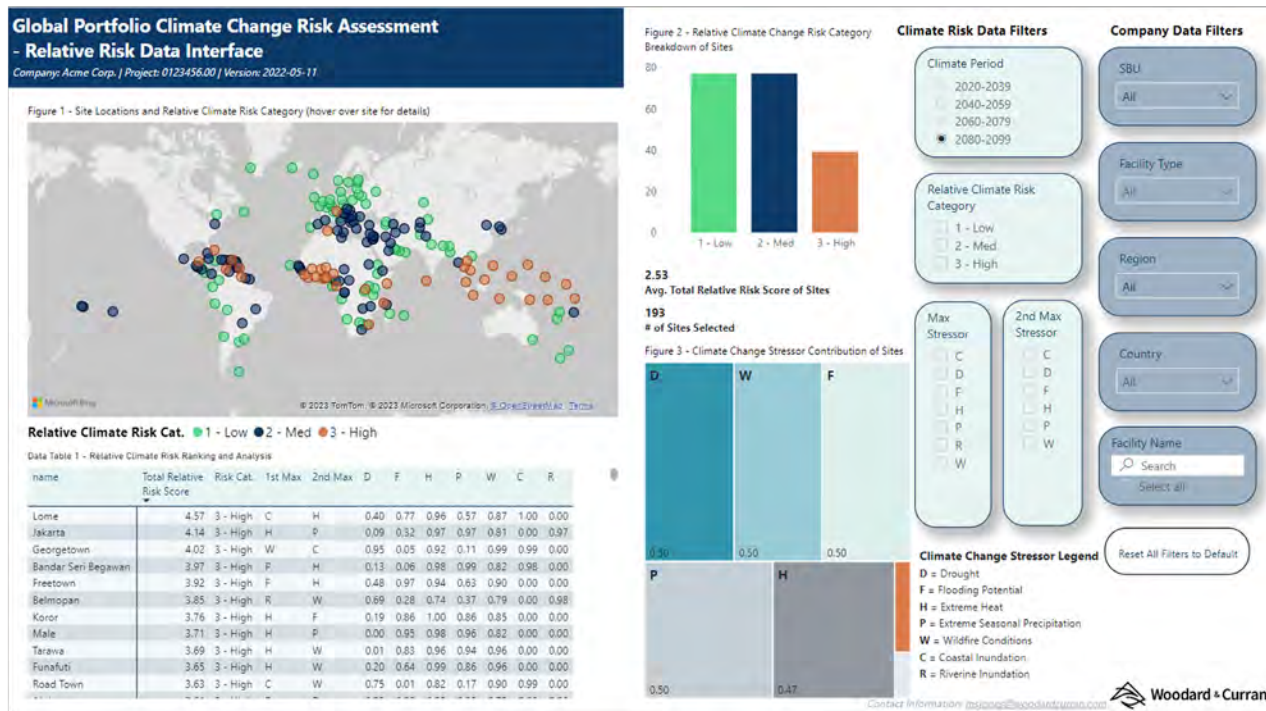
Our team focused heavily on implementation factors for supporting decision making on EMWD's Strategic Water Supply Study. This graphic shows a visual representation we completed to compare reliability and cost of projects within the study. Tools like these support decision making by providing tradeoffs between alternatives.

Creating visibility and understanding around climate resilience

Visibility and increased understanding by the general public and SAWPA member agency rate payers is critical for long-term support of CARP implementation. Support can also help in securing funding to implement its programs. The online platform developed in **Task 7** will facilitate the graphical representations of CARP data and information including maps and infographics. This platform can be enhanced through our proposed **Optional Task A** by incorporating interactive elements for community and stakeholder users to evaluate vulnerabilities relative to multiple climate change scenarios and factors.

We can use **Optional Task B** to create heat maps of identified hazards and vulnerabilities and an online platform to visualize climate change risk scores under multiple future timeframes and climate model scenarios. Visualization tools such as before/after swipe panels, decadal window sliders, zoom and pan, and timeseries plots can be available for the community and stakeholders to understand historic trends and future variance of identified hazards under multiple climate change scenarios (e.g., relevant shared socioeconomic pathways).

Users will be able to evaluate adaptation project effect on future risk projections through a visual decrease in risk score index when a highlighted project is selected (e.g., risk score decreases as resilience score increases through the user's selection of a listed project to implement). This interactive feature further engages agencies and the community in the long-term CARP implementation process.



The portfolio approach to climate risk assessment, as shown in this dashboard, allows for compilation of relevant climate data, evaluation of the climate stressor risks associated with site operations and geography, and the ability to plan and prioritize capital projects to mitigate those risks. With the data access and understanding of climate-related risk provided by the portfolio approach, risk managers achieve more informed decision making, quantified scenario analysis, and greater confidence in continuity planning.

Projects to Support the Portfolios

Our proposed **Optional Task C** takes the adaptation strategies and resilience portfolios that were evaluated during **Task 4** and enhances them by developing innovative regional projects and regional approaches to project development. This approach considers implementation from the start, ensuring that each strategy has an actual project to address it. The CARP will emphasize regional collaboration, funding strategies that encourage programmatic and collaborative approaches for the adaptation portfolios, and performance metrics to achieve measurable social and environmental outcomes. But importantly, the CARP will also include projects that position the region to adapt to climate change quickly. In this optional task, we will specially look for innovative regional adaptation projects, including nature-based solutions, that would enhance climate resilience in the watershed. Further, we will conduct cost analysis to support decision making and funding needs. Engagement workshops will refine these projects, ensuring they address Public Agency, community, and tribal priorities and needs. The final deliverable will include a roadmap for projects.

Building Support to Implement

To move forward with implementation, the plan must be supported by a wide range of decision makers, from member agencies to funding agencies, to elected officials. In proposed **Optional Task D**, we will help generate that support through educational efforts specifically targeted to decision makers. Our team will facilitate conversations around the plan findings and actions so that those in decision-making roles are familiar with the needs, benefits, and timeline to implement the plan. We will provide written materials that can be used in requests for support as well as in funding applications and will assist with outreach, meeting requests, and follow-up.

For additional details on the proposed scope of work, please see Appendix 5.

Section 5

Project Staffing



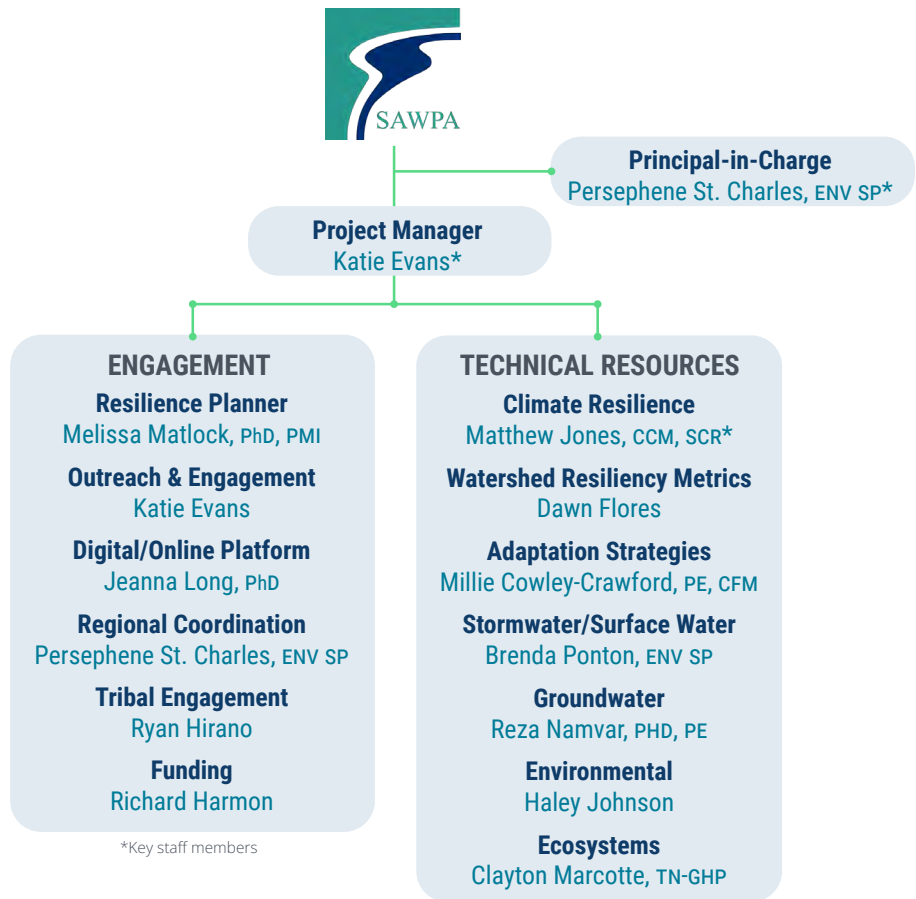
Proposal for the Development of a Climate Adaptation and Resilience Plan (CARP) for the Santa Ana River Watershed

5 | Project Staffing

We've put together a team that includes engagement experts and technical resources specialized in various areas of climate resilience. Our proposed team supports a coordinated and integrated approach to deliver SAWPA with a CARP) that addresses the breadth of needs in the Santa Ana River Watershed. Below is our organizational chart which outlines our proposed team. Our team is led by **Katie Evans**, our Project Manager, who will be responsible for the overall management of the contract and will be the primary point of contact for SAWPA. Katie will also lead the outreach and engagement portion of this project. **Persephene St. Charles** will serve as Principal-in-Charge and Regional

Coordination lead, providing as-needed support and guidance to the team. Persephene will have ultimate responsibility for this project and SAWPA's overall satisfaction with Woodard & Curran's work.

Matthew Jones, Woodard & Curran's National Climate Change, Resilience, and Sustainability Leader, will support Katie and Persephene in leading the climate resilience portions of the project. We have identified these three team members as our key staff on the project and included contact information for our key personnel below. Detailed resumes for our team members are in Appendix 1.



Katie Evans | Project Manager, Outreach & Engagement

Contact Information: kevens@woodardcurran.com, 858.875.7415, 9665 Chesapeake Drive, Suite 320, San Diego, CA 92123

Katie has 15 years of experience in strategic communications and community outreach for public agencies. Her approach to large-scale outreach efforts begins with a research-based assessment of the best localized outreach techniques and the most effective key messaging. Katie's previous work in disadvantaged communities (DACs) has included collaborating with grassroots organizations that are trusted by community members to develop relationships on behalf of the project. Katie is currently leading the stakeholder engagement component of Stockton East Water District's Calaveras River Watershed Resiliency Plan to develop a watershed-wide resiliency program as part of DWR's efforts in the 2023 California Water Plan. Her



role includes working with technical and non-technical stakeholders, including DACs and tribes, to plan for long-term water resilience. Prior to Woodard & Curran, Katie was the Director of Communications and Conservation at Coachella Valley Water District.

Persephene St. Charles, ENV SP | Principal-in-Charge, Regional Coordination

Contact Information: pstcharles@woodardcurran.com, 213.223.9466,
515 S. Flower Street, 18th Floor, Los Angeles, CA 90071



Persephene has 27 years of experience managing local and regional planning projects for agencies and groups focused on addressing long-term climate change impacts, water supply, water quality, stormwater, flood protection, and watershed resiliency issues. She specializes in providing tailored solutions that meet a variety of client objectives including increasing water supply reliability, attaining multiple project benefits, protecting source water quality, engaging stakeholder and public participation, developing project partnerships, and obtaining regulatory support. Persephene has experience developing methodologies for incorporation of climate change requirements in Southern California IRWM programs and for development of the climate change analyses and identification of future resiliency planning needs.

Matthew Jones, CCM, SCR | Climate Resilience

Contact Information: msjones@woodardcurran.com, 978.557.7819,
40 Shattuck Road, Suite 110, Andover, MA 01810

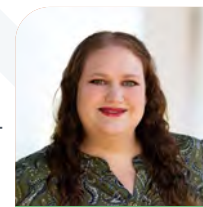


Matt is an American Meteorological Society Certified Consulting Meteorologist (CCM), certified by the Global Association of Risk Professionals for Sustainability and Climate Risk assessment (SCR) who has more than 20 years of experience in environmental services and atmospheric science consulting. He leads Woodard & Curran's national workgroup on climate change, resilience & sustainability and has been tasked on significant technical projects as a subject matter expert for air quality and atmospheric modeling, climate science, climate modeling, Environmental Social and Governance (ESG) reporting frameworks, climate risk, and greenhouse gases (GHG). He has served as a technical lead and subject matter expert on myriad atmospheric science and air quality projects, emissions modeling, risk assessment modeling, and GHG impact assessments. He has developed novel approaches for dispersion modeling, deposition flux modeling, climate model downscaling, climate risk assessment, and flood resiliency for use in infrastructure planning and climate adaptation plans.

ADDITIONAL PROJECT SUPPORT STAFF

Melissa Matlock, PhD, PMI | Resilience Planner

Melissa has over 15 years of experience specializing in water resources, public health, and program management. She has worked with governmental agencies, water districts, and environmental organizations, focusing on long-term water resource planning, climate resiliency, and grant management. Melissa has extensive expertise in water supply reliability, drought contingency planning, conservation efforts, and integrated water resource planning. Prior to Woodard & Curran, Melissa worked for Western Municipal Water District (WMWD) as a Senior Water Resources Specialist. She managed activities related to long-range water resources plans, projects concerning water supply, climate resiliency, system reliability, integrated resources, imported water, surface water, groundwater, stormwater, habitat conservation, water use efficiency, conservation, and state and regional water issues. In this role, Melissa collaborated with SAWPA, member agencies, and the State of California as a liaison and representative on behalf of WMWD.



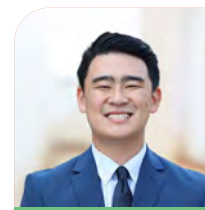
Jeanna Long, PhD | Digital/Online Platform

Jeanna has 20 years of experience in information systems design and development, business user management, requirements gathering and analysis, and database development and management. She drives cutting-edge digital innovation for Woodard & Curran, leveraging the firm's core competencies within the digital space while expanding upon digital and data science solutions. Additionally, Jeanna is responsible for exploring new technologies and approaches, ensuring the delivery of innovative digital solutions for our clients across the business. Jeanna developed the Opti system used by several IRWM Regions as a project database and led its customization to Opti PM that is currently used to support SAWPA's SARCCUP program management.



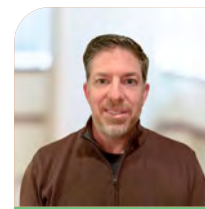
Ryan Hirano | Tribal Engagement

Ryan has seven years of experience in IRWM planning, federal and state funding programs, and community outreach and engagement, working specifically with underrepresented communities. Prior to Woodard & Curran, Ryan worked as an AmeriCorps Fellow with SAWPA providing programmatic support to the Santa Ana funding region's Improvement Program. Ryan met with tribes in the local area to get a better understanding of the issues they are facing and to find a way to get their voices heard to be included in future regional planning efforts. The Program is a Proposition 1 funded program designated to include the needs of DAC, economically distressed areas, and underrepresented communities in regional planning processes.



Richard Harmon | Funding

Richard brings nearly 25 years of government affairs and project advocacy experience at the federal, state, and local levels. His experience extends from water and infrastructure policy and funding to legislative solutions for public agencies. Richard served as Governor Arnold Schwarzenegger's transportation policy liaison between the Administration and both the California Legislature and the United States Congress. Richard leads a team with extensive experience pursuing and capturing grant and loan funding through state and federal programs. Richard places an emphasis on the potential for future funding—such as voter-approved bond measures—as it develops at the state and federal levels, and he actively monitors those opportunities.



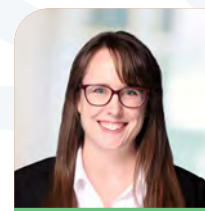
Dawn Flores | Watershed Resiliency Metrics

Dawn has 17 years of experience in water resources planning. She is experienced in strategic water supply planning, climate change evaluation, demand forecasting, water quality evaluation, advanced data analysis, and water resources modeling. Dawn was the lead for incorporating climate change adaptation and mitigation elements into several IRWM Plans. This work included identifying and prioritizing climate change vulnerabilities, identifying adaptation and greenhouse gas mitigation strategies, developing climate change objectives/targets, and incorporating climate change into future project prioritization. Dawn was the task lead for development of targets and metrics for the LA County Water Plan which are being used for plan implementation and monitoring.



Millie Cowley-Crawford, PE, CFM | Adaptation Strategies

Millie is a senior expert in water resources management and planning at Woodard & Curran with 24 years of experience. She supports clients in analyzing climate risks and associated vulnerabilities, developing adaptation strategies, asset management, hazard mitigation, and master planning. She has performed numerous asset inspections and risk assessments, identified and prioritized mitigation actions, provided disaster response and recovery support



to communities, and has helped projects comply with FEMA's National Flood Insurance Program. Millie is adept at developing adaptation strategies focused on stormwater management, groundwater recharge, water use efficiency, multi-benefit approaches and regional solutions. She worked with City of Santa Rosa to identify climate change adaptation measures that address risks to the City's regional water systems and has worked with City of Millbrae on developing sea level rise adaptation solutions.

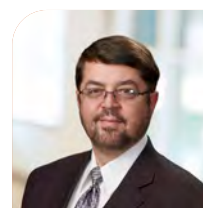
Brenda Ponton, ENV SP | Stormwater/Surface Water

Brenda has 12 years of experience in stormwater management and water resources planning. Her background is in environmental science and management with a focus on stormwater and watershed management. She has experience working on a variety of water resources projects, particularly related to multi-benefit project concept development, stormwater management feasibility studies, watershed management planning and implementation, stormwater resource planning, and water quality compliance. Brenda is responsible for managing SAWPA's program management database, Opti PM, for SARCCUP and was Project Manager for the development of a stormwater resource plan for the Riverside County portion of the Santa Ana River Watershed.



Reza Namvar, PhD, PE | Groundwater

Reza specializes in environmental and water resources planning, management, and engineering. He has coordinated a wide range of environmental, hydrologic, and hydrogeologic investigations for irrigation, groundwater management, conjunctive use, and other water supply plans. He is experienced in groundwater modeling and hydrological analysis for environmental impact reports/studies. Reza has extensive experience in developing and application of models in various groundwater basins across California. Reza updated EMWD's MODFLOW-based regional San Jacinto groundwater model to support analysis and implementation of water resources management projects. Reza has an understanding of Soboba Tribe, including where they extract their groundwater, their water rights, and how EMWD's groundwater model is being used for project evaluation.



Haley Johnson | Environmental

Haley has 14 years of experience in environmental analysis, planning, and compliance. She possesses expertise in CEQA, NEPA, air quality and greenhouse gas analysis, noise analysis, benefit/cost analysis, and funding applications and administration. Her CEQA experience includes initial study (IS) checklists, environmental impact reports (EIRs), mitigated negative declarations (MNDs), addendums, CEQA-plus documentation, and notices of exemption (NOE). Through her environmental work with EMWD, Haley has coordinated with the Soboba Tribe as the monitoring tribe on various projects.



Clayton Marcotte, TN-GHP | Ecosystems

Clayton is an Ecologist with over 12 years of experience in the environmental and natural resource industry. He has direct and in-depth experience with a wide range of projects and clients ranging from linear natural gas and transportation to municipal reservoirs and private mitigation banks. Clayton has a strong and diverse skillset including GIS and data management applications, field studies involving wetland and stream delineations, functional assessment, habitat assessment, GPS surveys, fluvial geomorphology assessment, aquatic biological and chemical sampling, and endangered species surveys. He also has significant experience in stream and wetland mitigation projects including Clean Water Act Section 404 permitting, site assessment and design, construction implementation and oversight, and physical/biological monitoring.



Section 6

Fee Schedule/Budget



Proposal for the Development of a Climate Adaptation and Resilience Plan (CARP) for the Santa Ana River Watershed



Santa Ana Watershed Project Authority (SAWPA)
Development of a Climate Adaptation and Resilience Plan (CARP) for the Santa Ana River Watershed

Tasks	Labor																	Total Hours	Total Labor Costs (1)	Total Fee			
	Persephene St. Charles	Katie Evans	Melissa Matlock	Jeanna Long	Ryan Hirano	Richard Harmon	Matthew Jones	Dawn Flores	Millie Cowley-Crawford	Brenda Ponton	Reza Namvar	Haley Johnson	Clayton Marcotte	Project Planner	Programmer	Graphics	Admin.						
	Principal-in-Charge	Project Manager	Resilience Planner	Digital/Online Platform	Planning/Engagement Support	Funding	Climate Resilience	Watershed Resiliency Metrics	Adaptation Strategies	Stormwater/Surface Water	Groundwater	Environmental	Ecosystems	Planner 1	Programmer 1	Graphics	Admin						
	\$370	\$365	\$320	\$385	\$265	\$335	\$365	\$335	\$365	\$320	\$355	\$320	\$270	\$160	\$240	\$170	\$145						
Task 1: Project Administration																							
1.1 Kick-off Meeting	8	10												10					28	\$8,210	\$8,210		
1.2 Work Plan	1	8												10					19	\$4,890	\$4,890		
1.3 Project Coordination		52												62			26		140	\$32,670	\$32,670		
1.4 OPR Support		4												8					12	\$2,740	\$2,740		
Subtotal Task 1:	9	74	0	0	0	0	0	0	0	0	0	0	0	90	0	0	26	199	\$48,510	\$48,510			
Task 2: Reference Materials Review																							
2.1 Annotated Summary		6	10					18											34	\$11,960	\$11,960		
Subtotal Task 2:	0	6	10	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	34	\$11,960	\$11,960		
Task 3: Public Agency Engagement Preparation																							
3.1 Public Agency Engagement Plan Preparation	2	8	8											14					32	\$8,460	\$8,460		
3.2 Engagement Materials		12			4									12		10			38	\$9,060	\$9,060		
3.3 Support for TAC		4																	4	\$1,460	\$1,460		
Subtotal Task 3:	2	24	8	0	4	0	0	0	0	0	0	0	0	26	0	10	0	74	\$18,980	\$18,980			
Task 4: Implement Public Agency Engagement Plan																							
4.1 Implement Workshops		50	24											5					79	\$26,730	\$26,730		
4.2 Implement Surveys		9	2											6					17	\$4,885	\$4,885		
4.3 Document Outcomes		2	2											8					12	\$2,650	\$2,650		
4.4 Risks and Vulnerability Assessment	8	12	10		2		20	4	8	2	2	2	2	4					76	\$25,800	\$25,800		
4.5 Develop and Evaluate Adaptation Strategies	6	24	10		2		36	6	30	6	6	6	6	8					146	\$49,680	\$49,680		
4.6 Develop Resilience Portfolios	8	36	20		2		50	10	30	6	6	6	6	4					174	\$60,460	\$60,460		
Subtotal Task 4:	22	133	68	0	6	0	106	10	68	14	14	14	14	35	0	0	0	504	\$170,205	\$170,205			
Task 5: Watershed Resiliency Metrics and/or Indicators																							
5.1 Develop Metrics/Indicators	4	4						30						2					40	\$13,310	\$13,310		
Subtotal Task 5:	4	4	0	0	0	0	0	30	0	0	0	0	0	2	0	0	0	0	40	\$13,310	\$13,310		
Task 6: Community and Tribal Engagement																							
6.1 Support Engagement Process		6			10									4					20	\$5,480	\$5,480		
6.2 Support for CAP		10			10														20	\$6,300	\$6,300		
6.3 Synthesize Community and Tribal Engagement Outcomes		4	4		4									4					16	\$4,440	\$4,440		
Subtotal Task 6:	0	20	4	0	24	0	0	0	0	0	0	0	0	8	0	0	0	56	\$16,220	\$16,220			
Task 7: Digital Presence for CARP																							
7.1 Online Platform				4											40				44	\$11,140	\$11,140		
7.2 Online Content		2	8											4	8	4			26	\$6,530	\$6,530		
Subtotal Task 7:	0	2	8	4	0	0	0	0	0	0	0	0	0	4	48	4	0	70	\$17,670	\$17,670			
Task 8: CARP Development																							
8.1 CARP Development	8	14			20									20		8			70	\$17,930	\$17,930		
8.2 Funding Strategy		4				20													24	\$8,160	\$8,160		
8.3 CARP Review Workshop		8												10					18	\$4,520	\$4,520		
8.4 SAWPA Commission and OWOW Review and Adoption		4												6					10	\$2,420	\$2,420		
Subtotal Task 8:	8	30	0	0	20	20	0	0	0	0	0	0	0	36	0	8	0	122	\$33,030	\$33,030			
OPTIONAL Task A: Enhanced Online Tool																							
A. Geospatial Database	2	6		16			24							4	80				132	\$37,690	\$37,690		
A. Enhanced Online Content	2	4	8	8			16	8	8					4	60				118	\$34,320	\$34,320		
A. Interactive Elements on Online Platform	2	4		16			16							4	80				122	\$34,040	\$34,040		
Subtotal Task A:	6	14	8	40	0	0	56	8	8	0	0	0	0	12	220	0	0	372	\$106,050	\$106,050			
OPTIONAL Task B: Climate Change Factors																							
B. Historical and Predictive Trends Summary	2	2	8	16			40	8	24					8	16				124	\$41,350	\$41,350		
B. Operating Procedures for Updating Data Inputs	2	2		2			4							8	8				26	\$6,900	\$6,900		
Subtotal Task B:	4	4	8	18	0	0	44	8	24	0	0	0	0	16	24	0	0	150	\$48,250	\$48,250			
OPTIONAL Task C: Regional Adaptation Projects																							
C. Regional Adaptation Projects List and Roadmap	40	8	10		10		10	10	8	8	8	8	8	18					146	\$46,490	\$46,490		
Subtotal Task C:	40	8	10	0	10	0	10	10	8	8	8	8	8	18	0	0	0	146	\$46,490	\$46,490			
OPTIONAL Task D: Facilitate Decision Maker Support																							
D. Meeting agendas, materials, and notes		24				8													32	\$11,440	\$11,440		
Subtotal Task D:	0	24	0	0	0	8	0	0	0	0	0	0	0	0	0	0	0	32	\$11,440	\$11,440			
TOTAL (without Optional Tasks A-D)	45	293	98	4	54	20	124	40	68	14	14	14	14	201	48	22	26	1099	\$329,885	\$329,885			
TOTAL (with Optional Tasks A-D)	95	343	124	62	64	28	234	66	108	22	22	22	22	247	292	22	26	1799	\$542,115	\$542,115			

1. The individual hourly rates include salary, overhead and profit.
2. Subconsultants will be billed at actual cost plus 10%.
3. Other direct costs (ODCs) such as reproduction, delivery, mileage (rates will be those allowed by current IRS guidelines), and travel expenses, will be billed at actual cost plus 10%.
4. Woodard & Curran reserves the right to adjust its hourly rate structure and ODC markup at the beginning of the calendar year for all ongoing contracts.
5. Additional Woodard & Curran staff may perform work on the project, based on our standard billing rate schedule currently in effect.

Appendix 1

Consultant Resumes



Proposal for the Development of a Climate Adaptation and Resilience Plan (CARP) for the Santa Ana River Watershed

Katie Evans

Project Manager & Outreach/Engagement



Education

- Masters, Public Policy and Management, Northwestern University
- Bachelors, Journalism, Arizona State University

Registrations

- Command and General Staff-Complex Incidents, ICS-400 - FEMA
- Expanding Incidents, ICS-300 - FEMA
- Facilitation Fundamentals for Public Service Leaders - American Water
- J. Lindsey Wolf Certification in Communication - CA Assoc. of Public I
- Grade 2 Water Practitioner - AWWA - CA & NV Section, 1902

- Intro to Incident Command System, ICS 100 - FEMA
- Single Resources and Initial Action Incident, ICS 200 - FEMA
- Water Distribution D2 - CA, 35342
- Water Treatment Operator Grade 2 - CA, 30322

Professional Associations

- American Society for Public Administrators
- American Water Works Association, Member
- California Association of Public Information Officers
- Leadership California, Committee Member
- Leadership Coachella Valley

Professional Profile

Katie has 15 years of experience in strategic communications and community outreach for public agencies. Her approach to large-scale outreach efforts begins with a research-based assessment of the best localized outreach techniques and the most effective key messaging. This research will determine the most efficient ways to engage the community – from hotlines and websites to door-to-door contacts. Katie’s previous work in disadvantaged communities has included collaborating with grassroots organizations that are trusted by community members to develop relationships on behalf of the project.

Related Experience

Los Angeles County Public Works, CA – Los Angeles County Water Plan. Worked closely with Los Angeles County Public Works to ensure that the public and stakeholders have clear, concise, and attractive access to the County Water Plan efforts. In addition to drafting the plan itself and coordinating all graphics and plan design, Katie developed educational content for the plan website and facilitated focus groups to gain insight from stakeholders.

Stockton East Water District, CA – Calaveras River Watershed Resiliency Plan. Katie is leading the Watershed Network component of this effort to develop a watershed-wide resiliency program as part of the California Department of Water Resources’ efforts in the 2023 California Water Plan. This effort includes working with technical and non-technical stakeholders, including disadvantaged communities and tribes to plan for long-term water resilience.

Eastern Municipal Water District, CA - Water Conservation Marketing and Outreach Services Project.

As Project Manager, Katie is supporting Eastern Municipal Water District (EMWD) to expand their “Landscapes for Living” program. EMWD brought on Woodard & Curran to help increase engagement with diverse communities in the program through targeted customer education and awareness. Project includes facilitating a visioning workshop, completing a public opinion survey for market analysis, development of a microsite and back-end database for program processing, marketing materials, community outreach, and public meetings. Through this work, we plan to expand the program by user type and user demographic as well as streamline processes for staff via our online portal. Recently, Katie conducted a “visioning workshop” with EMWD staff to better understand previous project challenges and ensure everyone had the same desired outcomes. The workshop included a Strengths, Weakness, Opportunities, and Threats (SWOT) analysis conducted by various staff members at different levels of the organization to develop a comprehensive set of goals.

Confidential Client – Biodiversity Enhancement Guidebook. Katie managed a project to develop a comprehensive catalogue detailing a wide range of environmental and biodiversity enhancement measures utilizing nature-based solutions tailored for various ecological settings. The catalogue includes more than 50 global initiatives at both

landscape/seascape and site levels, encompassing semi-arid terrestrial, temperate terrestrial, riparian, littoral/coastal, and offshore marine environments. Each entry features concise descriptions highlighting conservation objectives, estimated costs (itemized and per unit), technical feasibility considerations, maintenance requirements, performance indicators for success, and planning timelines. Additionally, curated a list of references and online resources for further inspiration.

Alameda County Water District, CA – Water Resources Master Plan, Phase 1. Led the strategic outreach effort in Phase 1 of the Alameda County Water District's (District) 2025 Water Resources Master Plan (WRMP). With its last comprehensive planning process conducted in 1995, the District has experienced many changes that warrant a fresh look at the future of its water supply. The goal of the WRMP is to inform critical decision making on future infrastructure and water supply investments, bearing in mind the District and the community's current values and priorities. Woodard & Curran supported the District with a progressive scoping model, splitting the project work into two phases. The first phase centered a collaborative approach that focused on working with District staff, Board members, interested parties, and the public to create a meaningful and highly tailored planning framework that will be implemented in a Phase 2. As part of this Phase 1 work, Woodard & Curran supported public polling, workshops, Board meetings, and staff involvement that allows for a final plan that is tailored to the current needs of the District and its community.

San Diego County Water Authority, CA – San Diego Integrated Regional Water Management Group Project Selection Workshop. Facilitated a four-day workshop for the stakeholder-led Project Selection Workgroup to identify and prioritize projects for funding through Proposition 1, Round 2. The workshops included extensive facilitation to reach consensus for \$16 million in grant funding. Workshops included process education, project detail presentation, formal interviews, and final decision making.

Coachella Valley Water District, CA – Coachella Valley Integrated Regional Water Management Planning Group. Project Manager for the implementation of the Coachella Valley Regional Water Management Group. She facilitates all regional collaboration including facilitating business and stakeholder meetings and leads public outreach to the community. In addition, on behalf of the Region, she successfully acquired grant funding from a variety of sources.

Palmdale Water District, CA – Strategic Water Resources Plan. Created the Outreach Plan for Palmdale Water District's Strategic Water Resources Plan, identifying stakeholders, defining outreach levels

for each, and creating a schedule aligned with the plan effort. The Outreach Plan is specifically aimed at addressing a variety of stakeholders with different approaches – from those who have data the plan needs to key decision makers to those who simply need to be informed.

Camrosa Water District, CA – Camrosa Water District Strategic Plan and Facilities Master Plan. Led the development of an Outreach & Advocacy Plan to align with Camrosa Water District's Strategic and Facilities Master plans. The intent is to effectively communicate the results of these planning efforts with the public, key stakeholders, and elected officials. The plan provided long-term outreach strategies for the District to implement well into the future to gain public support for a variety of projects and programs.

Coachella Valley Water District, CA - Colorado River Funding Area, Drought Grant Management. Project Manager and Grant Administrator for the Colorado River Funding Area's disadvantaged community drought relief grant. This grant is a coordinated effort between four Integrated Regional Water Management Planning Regions (Coachella Valley, Mojave, Imperial, and San Geronio). Katie facilitates interaction between the regions and assists in coordinating with the California Department of Water Resources.

City of Inglewood, CA – Edward Vincent Jr. Park Stormwater Improvements Project Design. Katie is leading the strategic communications component of this large, regional, multi-benefit stormwater capture project at a park in Inglewood, an underserved community. The strategic communications plan includes the use of a local nonprofit with ties to the community to participate in boots-on-the-ground outreach efforts. Additional efforts will include public workshops, website, translation, public outreach material development, and record keeping of public input/comments.

Mission Springs Water District, CA – Strategic Plan. Katie is leading the facilitation and development of Mission Springs Water District's strategic plan including a review of the organization's Mission, Vision, and Values, a Strength, Weaknesses, Opportunities, and Threats Analysis, and brainstorming potential solutions to needs and opportunities. She has facilitated a number of workshops, developed program materials, and is managing the project. The Strategic Plan is currently in draft form and will be presented to the Board of Directors in January 2024.

Confidential University Client, New England Region – PFAS Treatment. Katie serves as the Strategic Outreach Specialist for this PFAS Treatment Project. Woodard & Curran has been supporting this client for many years addressing PFAS and other contaminants in their public water system. To be proactive in

addressing potential negative public perception relative to PFAS, Katie is also providing risk communication assistance relative to the ongoing PFAS treatment activities. This work consists of a comprehensive communication plan which includes key messages reviewed by a risk expert, as well as audience and platform identification. Woodard & Curran is developing a webportal where students can use an interactive map feature to find alternative water sources.

Town of Scituate, MA – Water Treatment Plant. Worked closely with the Town of Scituate in implementing a public outreach campaign related to the construction of a new water treatment plant. This effort has included facilitating neighborhood listening sessions, preparing materials for public meetings, developing website content, and planning a social media content calendar. The strategic communications approach to this project has significantly increased the public's education on the new plant.

City of Coachella, CA – Stormwater Support Services. As Task Lead, Katie supported the City of Coachella in a review and comment on the most recent Colorado River Basin Regional Board Water Quality Control Board reissuance of their NPDES Permit for Discharges from the Municipal Separate Storm Sewer System (MS4) permit in the Whitewater River Watershed. Woodard & Curran collaborated with the City and the Riverside County Flood Control and Water Conservation District on MS4 permit language with a specific focus on modifications to the TMDL implementation provisions. Woodard & Curran and the City were successful in negotiating several edits favorable to the City of Coachella regarding enhanced flexibility in TMDL implementation approaches under the future permit.

Town of Lexington, MA – Phosphorous Control Plan. The Town of Lexington is in the process of updating their Phosphorus Control Plan, which contains elements of public education and property owner participation. Katie developed a Strategic Stormwater Communication and Outreach Plan for the town that clearly states the goals and objectives, describes coordination within the Town, key audiences, priority messages, outreach mechanisms, and a schedule of next steps. The plan highlights the benefits of stormwater management.

City of Gardner, MA – Sludge Landfill Expansion. The City of Gardner is in an environmental review process that requires a Public Involvement Plan that focuses on Environmental Justice (EJ) communities. Katie researched the EJ community needs and opportunities to connect to community members, then wrote the Public Involvement Plan for submission to the Department of Environmental Protection. The plan includes the location of EJ populations, potential impacts on EJ populations, measures to enhance public involvement, processes

for public information distribution, community meeting plans, website and social media content, and a strategy for materials development.

City of Fall River, MA – Lead Service Line Inventory & Replacement Planning. Katie helped develop the communications strategy for the City's service line inventory and lead service line replacement (LSLR) plan to be in compliance with regulatory requirements. The City of Fall River serves a population of greater than 100,000, including water sold to neighboring communities, and has approximately 21,000 metered connections within the City. Development of the service line inventory included internal records reviews and physical service line inspections. Katie helped to build a website with information on the progress of the inventory by each individual property, as well as provide residents with information on how to test their own pipes and submit that information to the City. A variety of public outreach mechanisms including postcards and social media posts drove residents to the website where they could learn more and participate in the inventory process.

EXPERIENCE PRIOR TO WOODARD & CURRAN

Coachella Valley Water District, Palm Desert, CA – Director of Communications and Conservation. Managed strategic outreach and education including District branding, website management, social media, digital and print advertising, email campaigns, press campaigns, various internal and external newsletters, press releases and news conferences. Oversaw tours, workshops, and events. Managed the Public Relations functions, including communications between organizational representatives and the public to build, manage and sustain a positive image. Responsible for analyzing and developing District positions on legislation. Maintained cooperative relationships with stakeholders. Oversaw conservation rebate and incentive programs. Presented informational and action items to the Board of Directors. Secured and managed professional services contracts. Managed the Water Management and Outreach and Education divisions of the District including budget development/management, personnel management, and operations. Projects included:

→ **Sun City Pipeline Replacement Project.** Led a team that conducted outreach for multiple phases of a 44-mile pipeline replacement project in Sun City Palm Desert which caused significant neighborhood disruption including loss of service, road closures, installation of new facilities, and disruption of mail delivery. Through an extensive outreach campaign which included neighborhood workshops, website and social media updates, regular mailings, on-site communications assistance, coordination with

emergency services and a dedicated troubleshooting hotline, the community had access to key information and disruption was minimized.

→ **Highway 86 Distribution Main Project.** Worked with the business and agricultural community to minimize disruption during the installation of 35,230 linear feet of 30-inch diameter ductile iron pipe and installation of a new booster pump station in the Eastern Coachella Valley. Through workshops and strategic communications initiatives, farms and business were able to weigh in how the best methods to minimize interference with business practices.

→ **Your Water Is Our Promise Campaign.** Developed a trust building campaign to humanize the District based on polling research for Coachella Valley Water District. After working with Probolsky Research to collect data on the public's opinion of the District, Katie and her team created an outreach campaign that used employees as spokespeople to demonstrate contributions to the community. By highlighting the qualifications of employees and the work they do, the team was able to develop messages that demonstrated that the District was made of people who live, work, and play in the community and are committed to providing high-quality services to residents.

→ **100th Anniversary Celebration and Outreach Campaign.** Lead the CVWD 100th anniversary campaign including production of a historic book, monthly proclamations from other governing bodies, "On this day" social media post series, videos, presentations, tours, and a community-wide event held at the local zoo. The campaign was largely celebrated by other municipalities and received significant media coverage.

California Data Collaborative, CA – Steering Committee Chair. Provided strategic direction regarding data science initiatives, advocated for policy decisions based on data analysis, oversaw membership relations and development, lead collaborative stakeholder process, planned, and hosted international annual Data Summit conference, lead solicitation of and contracting for organization strategic vision and staffing analysis. During this time, the CaDC saw a period of unprecedented and rapid membership growth, secured \$200k in federal funding, delivered Landscape Area Measurement data quality assessments to 21 water suppliers, and kicked off a strategic staffing assessment that will position the organization for future impact.

Coachella Valley Water District, Palm Desert, CA – Conservation Manager. Managed the 14-person Water Management division, implementing the strategies identified in the Coachella Valley Water Management Plan, Urban Water Management Plan and Sustainable Groundwater Management Plan. Ensured effective communications with stakeholders and provided exceptional customer service. Worked with the Education and Outreach team on communicating conservation messaging to the public. Served as District representative in conservation regulation meetings with the State Water Resources Control Board and California Department of Water Resources. Represented the District in relation to water conservation policy. Managed division budget. Supervised team responsible for the management of budget-based tiered rates, landscape ordinance compliance, water waste patrols, rebate and incentive programs and grant-funded conservation programs. Interacted with Board of Directors on related policy.

Desert Water Agency, Palm Spring, CA – Public Information Officer. Managed the Public Information Department including staff supervision, budget and strategic planning of goals and objectives. Conducted external affairs including but not limited to community outreach, media relations, integrated regional water management planning and advocacy. Implemented a rebranding effort and orchestrated marketing strategies for 50th anniversary, conservation, and water quality messages. Served as agency spokesperson in sensitive or controversial issues. Collaborated with local and state agencies and consultants on grant funding opportunities and programs. Worked to develop relationships with other government officials.

Persephene St. Charles, ENV SP

Principal-in-Charge & Regional Coordination



Education

- Masters, Geography (Water Resources), University of California Santa Barbara
- Bachelors, Geography, University of California, Davis

Registrations

- Envision Sustainability Professional

Professional Associations

- American Water Resources Association

Professional Profile

Persephene has 27 years of experience managing local and regional planning projects for agencies and groups focused on addressing water supply, water quality, stormwater, flood protection and watershed issues. She specializes in providing tailored solutions that meet a variety of client objectives including increasing water supply reliability, attaining multiple project benefits, protecting source water quality, engaging stakeholder and public participation, developing project partnerships, and obtaining regulatory support.

Related Experience

Los Angeles County Public Works, CA – LA County Water Plan. As Program Director, Persephene led the development of the first ever Los Angeles County Water Plan. The CWP creates a vision for water management; developed 16 regional targets, 14 strategies, and over 60 actions; and provides a consolidated voice for the region on a state and national level. Persephene facilitated 20 workgroup sessions with over 50 water management entities focused on regional supply reliability, groundwater management & quality, infrastructure resilience & drinking water equity, and watershed health & wildfire management.

Los Angeles County Public Works, CA – County Resilience Report. Project Manager for the assessment of current resilience and sustainability of water resources and future strategies and goals for enhancing resilience and sustainability to emergency, annual variability and long-term climate change impacts. Interviewed and facilitated meetings with 20 water resources agencies and non-profit groups involved with water supply, water quality, flood control and habitat/environmental responsibilities.

Stockton East Water District, CA – Calaveras River Watershed Resiliency Plan. Senior Technical Advisor working with Stockton East Water District and other stakeholders in the Calaveras River Watershed to develop the watershed's first ever Resilience Plan. This is a planning effort funded by the California Department of Water Resources to build watershed-based solutions, climate resilience, and equity. As one of the five pilot watersheds selected by the state, this Calaveras River watershed work will support the Watershed Resilience Program which is aimed at building regional resilience through multi-benefit, nature-based solution projects, integrated resource management, while focusing on equitable engagement. In addition to drafting the ultimate plan and conducting outreach work, Woodard & Curran will be leading the technical work to identify climate vulnerabilities and assess climate risks, as well as drafting the ultimate plan and conducting outreach work.

Metropolitan Water District of Southern California, CA – Resources Vulnerability Assessment.

Principal-in-Charge for the research and assessment of water supply vulnerability in anticipation of the 2020 Integrated Resources Plan Update that conducted a broad investigation of existing information on uncertainties that could impact supplies, such as demographics, regulations, seismic events, political decisions, and climate change. Additionally, identified relevant vulnerabilities for resources and characterized and assessed, qualitatively but based on technical information, the magnitudes of those vulnerabilities.

Eastern Municipal Water District, CA – Water Supply Strategic Plan. Project Manager of integrated water supply plan that developed and evaluated multiple supply alternatives to meet forecasted demands for five service areas. Demands were forecasted using multiple future condition scenarios as input to a GoldSim model. Used Woodard & Curran's Integrated Planning Tool to develop future supply alternatives with multi-phase supply and operations options and support decision making across multiple levels within the organization.

Southwestern Riverside County Water Alliance (Eastern Municipal, Elsinore Valley, Rancho California and Western Municipal), CA – Joint Water Supply Concept Development.

Worked with General Managers and key staff on development of high-level concepts in response to Board member interest in exploring large-scale regional water supply concepts that would bring new water to the region. Facilitated concept development framework and Board member input and collaboration to form partnership projects for conjunctive use, ocean desalination and stormwater diversion.

Los Angeles County Public Works, CA – Los Angeles Basin Stormwater Conservation.

Technical Lead for a supply and demand analysis for the Los Angeles Basin Study that included working with a partnership of the LA County Flood Control District and the U.S. Bureau of Reclamation. The Woodard & Curran team calculated all current demands and supplies in the LA Basin area and then projected those demands and supplies out to 2035 and 2095, incorporating the impacts of both population increase and climate change. Supplies investigated as part of this study included imported water, local surface water, recycled water, desalinated ocean water, graywater, centralized stormwater capture, decentralized stormwater capture (e.g., low impact development [LID]), and replenished groundwater. The development of the supply and demand estimates included input from a Stakeholder Technical Advisory Committee.

Upper Mokelumne River Watershed Authority, CA – Upper Mokelumne River Watershed Assessment and Planning.

Project Manager of a three-year Prop 13 and 50 funded watershed assessment and planning project. asks include management of goal development, public and stakeholder committee coordination as well as development of a watershed assessment methodology, data collection and monitoring program, creation of a tailored assessment tool/model, and watershed management recommendations/final plan based on land use, NPS, and baseline water quality analysis. Oversaw development of an extensive GIS database with a refined land use and land cover data set to perform basic vulnerability zone analyses for future users.

Rancho California Water District, CA – Conjunctive Use Program Development.

Technical Advisor and PIC for assessing the feasibility of a conjunctive use program for RCWD in concert with the Western Riverside County Water Alliance. Work includes an analysis of the availability of supplies, groundwater basin storage, and existing infrastructure capacity relative to the interests of multiple project partners.

North Bay Watershed Association, CA – North Bay Watershed Stewardship Plan. Project Manager of a stewardship plan for a 15-client association and

affiliated stakeholder Watershed Council. Served as Council coordinator and conducted numerous client and stakeholder interviews to assess and catalog existing programs and projects that helped meet 35 water supply, water quality, recreation, public education, flood control, and habitat enhancement objectives developed by NBWA. Planning process developed over 40 candidate projects to meet those objectives.

Russian River Watershed Association, CA – Executive Director and Technical Project Services.

As Deputy Director, assisted in the formation and development of an association of 11 water and wastewater agencies in the Russian River Watershed area. Managed executive director services as well as all technical program scoping/development and project implementation in the areas of integrated water and resources planning, water quality and regulations, and public outreach and funding. Provided liaison support to water quality regulators and facilitated stakeholder participation in program implementation.

Los Angeles County Department of Public Works, CA – Watershed, Water Resources and Safe Clean Water As-Needed Service Contracts.

Principal in charge/Contract Supervisor for four \$4-5 Million, contracts from 2012-ongoing resulting in over 50 completed task orders involving regional water resources planning water quality studies, in house TMDL and grant admin services, IRWM program support, water resilience planning, Safe Clean Water project development climate change impact analysis.

Alameda County Water District, CA – Water Resources Master Plan, Phase 1.

Project Leader responsible for collaborating with District staff in creating the planning framework for use in developing the 2025 Water Resources Master Plan (WRMP). Persephene had a key role in helping to facilitate input from District staff, Director and interested parties to develop the future water resources goals, planning objectives, evaluation criteria and Phase 2 communication and engagement strategies that will be used for Phase 2 planning.

Greater Los Angeles County Region, CA – Integrated Regional Water Management Program.

Project Manager for Plan Update to meet DWR standards and regional interests. Supported the Region as area manager of the North Santa Monica and South Bay regions to work with stakeholders in those regions to facilitate participation and development of planning needs and projects for inclusion in the IRWM process. Led or supported multiple IRWM program grant applications for the Region.

Upper Santa Margarita Watershed Region, CA – Integrated Regional Water Management Program. Project Manager for the 2014 Plan Update

process for the Region including the development of new objectives, Regional strategies, project development and review processes, climate change analyses and identification of planning needs. Managed the overall preparation for the Round 2 Prop 84 implementation grant process – working directly with proponents on the development of an application that received full funding from DWR.

Los Angeles County Public Works, CA – Trancas Channel Improvements and Restoration Study.

ENVISION Specialist that developed an Envision framework to facilitate sustainable decision making and implementation for a project that assessed existing and projected facility drainage conditions and potential enhancements to the system to meet multiple benefits. The framework was used to guide the team's development of sustainable goals and objectives with the input of key project stakeholders, balancing the need for flood protection along with the fish passage, aesthetic and environmental benefits of a more natural system. Once sustainable, overarching goals are prioritized and agreed upon, Envision will then be used to assess potential alternative implementation strategies for viability against the applicable Envision credits.

City of Malibu, CA – Legacy Park Integrated Water Quality Management Program.

As Technical Advisor, provided technical response to public comments on the EIR for a multiple benefit water quality and supply project that included construction of vegetated stormwater detention basins, intermittent wetlands, and riparian habitat on 15 acres of recently acquired vacant land; development of passive recreation and educational facilities; and development of community wastewater collection, treatment, reuse, and dispersal facilities. The program addresses TMDLs for bacteria and nutrients in the watershed to provide cleaner waters and beaches.

San Diego Region, CA – Integrated Regional Water Management Plan. As Facilitator, supported a 25-member Regional Advisory Committee stakeholder group in development of the 2007 San Diego IRWM Plan, prioritization criteria to identify projects for potential state grant funding, and governance structure.

San Geronio Region, CA – Integrated Regional Water Management Program. Project Manager for the development of the first IRWM Plan for the San Geronio Region. Supported region in initial set up of regional water management group and governance structure, definition of regional boundary, stakeholder advisory committee and public involvement as well as DWR coordination and communication. Planning process included development of overall IRWM plan to meet local and DWR needs as well as three related technical planning efforts: development of an integrated watershed and groundwater model in advance to support basin

understanding and SGMA compliance, a regional water reliability assessment that generated project concepts to enhance future supply and a regional recycled water study that identified opportunities to work collaboratively on increasing beneficial use of resources and improving water quality.

Bay Area and North Coast Regions, CA – Integrated Regional Water Management Program Development.

As Project Manager, helped facilitate the formation of the Bay Area and North Coast IRWMP regions through agency coordination and developing of MOUs, scoped early IRWM programs and identified opportunities for regional partnerships and consolidation of watershed and political boundaries into IRWM Regions, and prepared sections of initial plans.

San Francisco Public Utilities Commission, CA – Water Storage and Distribution Facilities Upgrades and Water Supply Reservoir Watershed Management Plan.

Environmental Communication Specialist responsible for public outreach and noticing for a portion of SFPUC's Capital Improvement Program. Developed a public involvement plan and outreach materials for SFPUC's East Bay and Peninsula water supply reservoir watersheds.

San Francisco Public Utilities Commission, CA – Integrated Water Public Outreach Program.

Project Manager for a program to determine public opinion on integration of water supplies and management strategies including conservation and rationing. Managed development of city-wide survey development and used results of survey and focus group to prepare potential messaging and delivery techniques to individual target audiences, and delivery techniques. An implementation program was also developed to leverage and coordinate between various City agencies and activities.

Coachella Valley, Antelope Valley and San Diego Regions, CA – Integrated Regional Water Management Plan Update.

Task Leader for developing methodologies for incorporation of climate change requirements in Southern California IRWMs and for development of the climate change analysis for the 2012 Plan Updates.

Camrosa Water District, CA – Strategic Plan and Facilities Master Plan.

Leading the development of a multi-phase planning process beginning with Board workshops to develop the strategic vision, mission, goals and strategies to guide the District's next water resource and facilities Master plan update. Persephene is working closely with staff on progressively developing and implementing a master planning framework and process to meet the outcomes of the strategic plan as

well as near-term CIP needs for rate analysis and drought response as well as longer-term strategies for future water independence and resilience.

Main San Gabriel Basin Watermaster, CA – Committee Facilitation. Persephene facilitated several meetings of a Watermaster Board Committee to prioritize groundwater management and storage enhancing concepts for future development and partnerships as well as public outreach goals and program framework for consultant selection.

Main San Gabriel Basin Watermaster, CA – Public Outreach Program Support. Facilitated key meeting of Board Committee to define public outreach goals and program framework, determine what outside support is needed and the procurement process and criteria for selecting a consultant. Prepared Request for Proposal on behalf of Watermaster for use in their procurement process.

City of Malibu, CA – Civic Center Water Treatment Project Integrated Water Quality Management Program. As Principal-in-Charge worked with City to implement the Phase 2 expansion of a the Civic Center area's collection system, treatment plant and recycled water distribution and advised on stakeholder involvement and ensuring overall project effectiveness and performance.

Palmdale Water District, CA – Strategic Water Resources Plan. Alternatives Task Lead for the integration and modeling of water supply and demand management alternatives in the face of challenges to the reliability of water supplies and need to develop a coherent strategy for overcoming these. Alternatives looked at creating over 30,000 AFY of new supply by developing new imported water supplies, establishing multiple groundwater banking opportunities, increasing groundwater pumping capacity, implementing recycled water and expanding conservation programs.

Pasadena Water and Power, CA – Water System and Resources Plan. Project Manager for innovative project that integrates water resources supply and water facilities master planning into a comprehensive planning process and document. Facilitated stakeholder meetings to represent Pasadena community values and interests in setting goals and evaluating strategies. Oversaw technical analyses involving water resources modeling using GoldSIM; infrastructure assessment risk analysis and CIP programmatic tiers packaging; development of a new excel-based portfolio building and decision tool that can be used by client in future to adapt to changing political priorities, regulations and physical setting.

City of Pomona, CA – Strategic, Water and Wastewater Master Planning. Project Manager for the development of water and wastewater utility strategic plan involving a multi-division SWOT analysis and the development of goals, objectives, KPIs and near-term action plan. The process includes integration of a dynamic water and wastewater modeling and planning process that will allow the City to generate annual CIP updates based upon determined criteria, priorities and processes. The planning process also updates our Integrated Water Supply Plan incorporates a parallel rate study and to identify funding and financing opportunities.

City of Pomona, CA – Integrated Water Supply Plan and Urban Water Management Plan. Project Manager for the process of developing and selecting integrated alternatives to meet specific targets set by the city –including regional partnership projects. An Integrated Water Supply Plan is being developed to provide Pomona with a plan to meet long-term demands through the use of the most beneficial and cost-effective supplies, which provided the basis for completion of the UWMP.

Puente Basin Water Agency, CA – Regional Water Supply Alternative Analysis & Modeling. Project Manager for modeling the system constraints and demand and supply balances associated with the implementation of a suite of existing and newly proposed local resources projects. The project uses the WEAP model to determine potential season constraints given the timing and operations of existing supplies and those proposed by new supply projects. analysis of water quality needs relative to these new supplies and blending requirements is also conducted to help PBWA scaled future projects to the optimal size that will best leverage infrastructure.

Puente Basin Water Agency, CA – Pomona Basin Regional Groundwater Project. As Principal-in-Charge, scoped a partnership project to develop local groundwater supplies for regional use to offset imported water and oversaw the development of project developed key alternatives and explored them from an institution and technical perspective to determine the most feasible project. Project alternatives looked at potential for increased raw water spreading, in-lieu pumping and leasing arrangements, inter-basin transfers, water quality treatment and blending options involving several potential project partners collaborating on a regional scale.

Matthew Jones, CCM, SCR

Climate Resilience



Education

- Masters, Marine & Atmospheric Science, Stony Brook University
- Bachelors, Atmospheric Science, University of Massachusetts-Lowell

Registrations

- Certified Consulting Meteorologist, 736
- Sustainability and Climate Risk - GARP, 1540973

Professional Associations

- Air & Waste Management Association, Member
- American Meteorological Society, Member
- Association of Climate Change Officers, Member

Awards & Recognitions

- Frank Woodard Leadership Through Innovation: Climate ResiliTool (2024)
- Top Product: Climate Risk Assessment (2023 - Energy + Environment Leader)

Technical Expertise

- Air Quality Modeling (AERMOD, CALPUFF, SCICHEM, OCD, SCREEN3)
- Dense Gas Modeling (SLAB, DEGADIS, HGSYSTEM)
- Risk Assessment Modeling (ALOHA, EPICode, RMP*Comp)
- Meteorological Modeling (WRF, MM5, CALMET)
- Fluid Dynamics Modeling (OpenFOAM)
- Emissions Modeling (MOVES2014)
- New Source Review Permitting / Prevention of Significant Deterioration
- Air Emissions Inventories

Professional Profile

Matt is an American Meteorological Society Certified Consulting Meteorologist (CCM), certified by the Global Association of Risk Professionals for Sustainability and Climate Risk assessment (SCR) who has more than 20 years of experience in environmental services and atmospheric science consulting. He leads Woodard & Curran's national workgroup on climate change, resilience & sustainability and has been tasked on significant technical projects as a subject matter expert for air quality and atmospheric modeling, climate science, climate modeling, Environmental Social and Governance (ESG) reporting frameworks, climate risk, and greenhouse gases (GHG). Matt has been the air modeling subject matter expert on multiple geographically diverse air quality litigation projects, consistently communicating complex material succinctly for technical and non-technical consumption. He has served as a technical lead and subject matter expert on myriad atmospheric science and air quality projects, emissions modeling, risk assessment modeling, and GHG impact assessments. He has developed novel approaches for dispersion modeling, deposition flux modeling, climate model downscaling, climate risk assessment, and flood resiliency for use in infrastructure planning and climate adaptation plans.

Related Experience

Guest Speaker, American Council of Engineering Companies, Washington DC (2024). Invited speaker and panelist subject matter expert to present on and field questions regarding how firms could address climate resilience and the evolving aspects of an engineers' standard of care within a climate change paradigm. Matters covered included current climate risk assessment practices with the global community, risk communications within projects, and suitability of climate model data for resilience engineering design characterization.

Urban Flood Modeling Tool Development Leader. Lead subject matter expert on climate science in support of developing innovative solutions to model urban flood depth under multiple climate scenarios using machine learning techniques for public and private sector clients.

Timber Product Company – Global Climate Change Risk Assessment. Lead subject matter expert and project manager in support of an assessment of the physical and transitional risks associated with future climate change for the client's global portfolio. Managed technical teams and developed innovative climate model extraction processes

to guide the client's incorporation of physical climate risk into site resiliency projects and transition risk into enterprise risk management processes.

Coastal Municipality – MA, USA – Climate Hazard Mitigation Plan. Leading subject matter expert on climate science in support of a public-facing hazard mitigation plan. Responsible for supporting the development of strategy around assessing climate vulnerabilities, hazards, and identifying mitigation actions to reduce potential risk experienced by the Town.

Chemical Coatings Company – Global Climate Change Risk Assessment. Lead subject matter expert and project manager in support of an assessment of the physical risks associated with climate change for the client's global portfolio. Managed technical teams and developed innovative climate model extraction processes to guide the client's incorporation of physical climate risk into site resiliency projects.

Oil & Gas Company, Gulf of Mexico – Emissions Inventory and Impact Modeling. Project Manager and Lead emissions and atmospheric dynamics modeler for offshore Gulf of Mexico air quality analysis projects. Responsible for creating and executing a comprehensive emissions estimate, modeling strategy, and path-forward for complex emissions impacts at critical coastal locations. Led the Woodard & Curran project team and coordinate with client staff to interact with the Bureau of Ocean Energy Management (BOEM) and developing an environmental compliance path toward successful offshore installation projects.

Technical Knowledge

Sustainability & ESG Frameworks: TCFD, TNFD, GRI, CDP, GHGRP, EPA GHGRP

Climate Model Data / Compendiums: RCP/SSP scenarios, IPCC, CalAdapt, World Bank Climate Change Knowledge Portal, WRI / Aqueduct, CORDEX, NOAA National Climate Assessments, Weather Research & Forecasting (WRF) model

Technical Publications & Presentations

Jones, Matthew S., Katie Elich 2024: Climate Risk Assessment for Portfolio Management. Battelle Chlorinated Conference.

Jones, Matthew S. 2024: Climate Modeling of Southern Pine Beetle Habitat Dynamics: A Machine Learning Approach to Quantify Biodiversity Risk. Battelle Innovations in Climate Resilience (ICR24) conference and exhibition.

Jones, Matthew S. 2023: The EHS Professional's Compass for Navigating Climate Risk. Webinar for the American Society of Safety Professionals.

Jones, Matthew S. 2022: "For Future Consideration": Determination of Facility-level Meteorological Representativeness Across Climatic Scales. Air & Waste Management Association Air Modeling Conference, Innovative Modeling Application and Techniques.

Jones, Matthew S. 2022: Natural Born Negatives: Using Natural Climate Solutions in Net Zero Plans. Battelle Innovations in Climate Resilience (ICR22) conference and exhibition.

Jones, Matthew S. 2022: Current Trends in ESG Reporting. Workshop for National Association of Environmental Managers.

Jones, Matthew S. 2021: A Look at the Rapidly Evolving ESG & Sustainability Reporting and Regulatory Landscape. Workshop "Solve-it" series for National Association of Environmental Managers.

Jones, Matthew S., Ian Jaffe, Millicent Cowley-Crawford 2021: America's Next Top Model: Comparing Climate Change Modeling Tools and Data Sets for Practical Applications. Association of Floodplain Managers.

Jones, Matthew S. 2021: Event-Driven Dynamic Climate Model Downscaling. Air & Waste Management 114th Annual Conference and Exhibition.

Jones, Matthew S. 2020: Evaluating Future Weather Risks through Regional Climate Model Downscaling. Ohio Chemistry Technology Council: Operational Excellence & Sustainability Committee Meeting.

Jones, Matthew S., Haley Johnson 2019: Dynamic Climate Downscaling in San Francisco Using WRF. Air & Waste Management Climate Change Conference.

Additional Experience

Del Puerto Water District, CA – Del Puerto Canyon Reservoir Environmental Impact Report. Project Planner currently responsible for evaluating and conducting the air quality modeling (using CalEEMod) for construction and operational emissions of a proposed 82,000 acre-foot reservoir located along Del Puerto Creek in Stanislaus County, fronting Interstate 5, west of the City of Patterson. Project includes a main dam, three saddle dams, inlet/outlet works, pipeline, a pumping plant, electrical substation, relocated utility lines and a relocated roadway. The project will provide locally-owned south of Delta water storage to and from the Delta-Mendota Canal to provide a reliable source of water for agriculture and wildlife refuges in the Del Puerto Water District and Project Partners' service areas. The EIR team, working closely with the engineering team, is conducting environmental review on a fast track basis to help meet US Bureau Reclamation grant funding application deadlines.

Environmental and Occupational Risk Management, Orange County, CA – Modeling. As Project Manager and Modeler, managed and performed dispersion modeling for a worst-case scenario release of solid particulate using the EPIcode dispersion modeling system. Multiple settling velocity scenarios were derived from particulate size distributions toward determining a Toxic Endpoint radius for the hazardous substance following California Accidental Release Program (CalARP) guidance and recommendations.

Confidential LNG Terminal, MA – FERC Resource Report 9 Air Quality Impact Report. Technical Writer/Review responsible for developing necessary data and technical write-up for a FERC Resource Report 9 Air Quality Impact report. Modeling data, background concentrations, existing climate conditions, and other associated data was collected and presented for client and FERC review. Modeling results were peer reviewed and evaluate.

British Petroleum, MT – Air Quality Monitoring and Wind Modeling. Technical expert for ongoing air quality study at BP's Anaconda operations and technical expert for ongoing wind modeling and deposition study at BP's Butte operations.

Water Resources Clients, CA – Mobile Emissions Modeling. Lead modeler using CalEEMod for multiple water resource allocation and distribution projects in CA to quantify construction and operational emissions. Additional work included hazardous risk assessment using dispersion modeling of diesel particulates from construction fleets.

Fertilizer Manufacturing Client - Multiple Locations, USA – RMP and Offsite Consequence Analysis Modeling. Project Manager & Lead Modeler for the RMP and offsite consequence analysis of worst-case release scenarios at multiple fertilizer manufacturing facilities across the country. Matthew employs the dense gas model DEGADIS and develops comprehensive offsite consequence analysis reports for this client.

Confidential Client, Multiple Locations, USA – RMP and Offsite Consequence Analysis. Project Manager & Lead Modeler for the RMP and offsite consequence analysis of worst-case release scenarios at multiple chemical manufacturing facilities across North America. Matthew employs the dense gas model DEGADIS and develops comprehensive offsite consequence analysis reports for this client.

City of Stamford Traffic Engineering, Stamford, CT – Transportation Analysis. Project Manager and Modeler responsible for a transportation conformity hot-spot modeling analysis for an intersection expansion project in Connecticut. Matthew collected, analyzed, and processed the necessary traffic flow data into

critical inputs to the MOVES2014 model and developed a dispersion modeling platform to model five years of representative meteorological data using AERMOD. Matthew developed a comprehensive report describing all processes and assumptions and conformity evaluation for the intersection project.

US Cement, Texas – PSD and Increment Modeling Project. Served as Lead Modeler for a PSD and increment modeling project in Texas that included preliminary impact determinations, radius-of-influence calculations, and full increment modeling with large regional emissions inventory. This project included development of a full modeling protocol and air quality analysis report.

Confidential Client – Texas, USA – Risk Assessment Modeling System. Technical Lead responsible for a team of air quality and air engineers to develop a scalable and transportable risk assessment modeling system. The system was a screening-level toxic threshold analysis tool to be used by the client at multiple locations and facilities. Matthew developed training materials and curriculum for client engineers to understand and employ the modeling system independently. Matthew provided QA and procedural review support for the client during initial tests of the system.

LUBRIZOL, Texas, USA – Modeling. Performed all necessary modeling for a permit renewal and amendment modeling project in Texas. Matthew performed multiple modeling evaluations, preliminary impact determinations. This project included development modeling protocol and air quality analysis report.

INEOS – Texas, USA – Modeling. Performed all necessary modeling for a PSD and increment modeling project in Texas. Matthew performed multiple worst case operating scenario modeling evaluations, preliminary impact determinations, radius-of-influence calculations, and full increment modeling with large regional emissions inventory. This project included development of custom meteorological data set and a complex modeling protocol and air quality analysis report.

Confidential Client, Mississippi, USA – Modeling. Served as lead modeler for the RMP and offsite consequence analysis of several worst-case and alternate scenarios of a chemical manufacturing facility. Matthew employed DEGADIS, HGSYSTEM, RMP*Comp, and complex GIS mapping to assist the client in development of their risk management plan.

CPV Valley – New York, USA – AERMOD Modeling. Performed AERMOD modeling for a modification of a LNG terminal permit. Matthew interacted with a diverse team of scientists and engineers to

communicate necessary parameters and bounds of the project possibilities. Matthew developed a succinct modeling report to present to regulators and review teams.

Milliken, South Carolina, USA – Modeling. Project Manager and Lead Modeler to develop a novel modeling approach to evaluate broad toxicological risk assessment and toxic endpoints for multiple release scenarios of dense and buoyant gases from a chemical manufacturing facility. Matthew additionally served as project manager in this project and served as the lead for frequent communication of model results and anticipated risk evaluations.

Alpha Analytical – MA, USA – Air Permit Audit. Project Manager for air permit audit and mass balance evaluations at multiple sites of an analytical laboratory in Massachusetts. Matt served as project manager during a complex permit modification at multiple Alpha sites in Massachusetts. Oversaw calculation and air modeling methodology and interacted directly with Massachusetts Department of Environmental Protection (MassDEP) official to deliver a desirable permit outcome for the client.

Confidential Client – LA, USA (Modeler). Created Weather Research and Forecasting (WRF) meteorological model data-sets were created to drive CALPUFF dispersion modeling of an accidental release from a chemical facility in Louisiana. Developed Python-based analytical tools to visualize and diagnose model dynamics and sensitivities to converge on a representative simulation of a complex release of multiple compounds.

Confidential Client, TX, USA – Modeling. Served as AERMOD modeler for a PSD permit application of a co-generation facility in Texas. Performed complex sensitivity modeling studies to determine advantageous and appropriate design of project sources that were applied to client cost models for path-forward steps. He developed modeling protocol and methodology memorandum submitted to Texas Commission on Environmental Quality (TCEQ). During the course of the modeling work, multiple Python tools were used to evaluate, summarize, and steam-line model processes.

Confidential Client, NC, USA – Modeling. Performed SLAB dense gas modeling and AERMOD dispersion modeling in support of a worst-case scenario release of an explosive gas for a confidential client. Developed automated routines to execute and evaluate thousands of modeled scenarios to present vent design criteria for the client to meet strict safety thresholds.

TRONOX, LLC, MI – Modeling. Served as AERMOD dispersion modeler to perform multi-source and source apportionment modeling to aid the client in design and mitigation strategy of multiple emission points. Mr. Jones developed automated routines to execute, analyze and visualize model results for presentation to the client.

Matthew generated a succinct report to highlight criteria pollutant emission points for critical targeted mitigation and augmentation by the client.

Accutest, Multiple States, USA – Regulation Review. Regulation Review, Technical Reviewer for a chemical analysis company with multiple analytical laboratories across the country. For each state within which a lab was based (TX, CA, LA, FL, and CO), Matthew identified relevant regulation and exemption for toxic air pollutant and hazardous air pollutant emissions from the client's laboratories. Permitting structures and process were researched and summarized for the client to determine process expansion go/no-go decision criteria.

Pilgrim Pipeline Holdings, LLC, NY, USA – Air Quality Impact Analysis. Served as Senior Technical Reviewer for the air quality impact analysis under a New York State Environmental Quality Review Act (SEQRA) framework. Matthew reviewed the methodology and protocols for construction and operations impacts of a petroleum product pipeline within New York State. Impacts relative to background levels of criteria pollutants were estimated using MOVES and OFFROAD2008. In addition, he performed editorial review of all delivered reports concerning air quality of the project.

Florida Southeast Connection Pipeline, FL – Air Quality Impact Analysis. As Socioeconomic Data Analyst, developed socioeconomic data-sets to use in a Federal Energy Regulation Commission (FERC) filing for a liquefied natural gas pipeline through several counties in Florida, USA. The US Census Department's American Factfinder was used to tabulate numerous statistical representations and economic impact of the pipeline.

Sabal Trail Pipeline, Multiple States, USA – Air Quality Impact Analysis. As GIS Analyst, performed GIS analysis of crossing statistics and workspace acreage to determine soil, watershed, wetland, and floodplain impacts within a FERC framework for a major liquefied natural gas pipeline through Florida, Georgia, and Alabama. He developed statistical and logical tools to automate the evaluation of several complex soil classification categories and generated tables to be used in FERC resource reporting.

Melissa Matlock, PHD, PMP

Resilience Planner



Education

- Doctorate, Public Health, University of California, Irvine
- Masters, Environmental Studies, Columbia University in the City of New York
- Bachelors, Anthropology, University of California, Irvine

Registrations

- Project Management Professional - PMI

Professional Associations

- American Water Works Association
- California Water Efficiency Partnership
- California Data Collaborative

Technical Expertise

- Project Management
- Data Analysis – Excel/R
- CRM - Salesforce
- Financial modeling and forecasting (DCF, NPV, IRR)
- Statistical modeling (regression analysis, time series forecasting)
- Process mapping and workflow optimization
- Risk assessment and mitigation

Specialized Training

- Project Management Certification, Cornell University

Professional Profile

Melissa is a dedicated consultant with over 15 years of experience specializing in water resources, public health, and program management. She has worked with governmental agencies, water districts, and environmental organizations, focusing on long-term water resource planning, climate resiliency, and grant management. Melissa has extensive expertise in water supply reliability, drought contingency planning, conservation efforts, and managing complex projects, including urban water management and integrated water resource planning. Throughout her career, Melissa has been recognized for her leadership in overseeing large-scale grant programs, securing significant funding for water infrastructure projects, and implementing innovative solutions to water-related challenges. With a Ph.D. in Public Health and multiple professional certifications, Melissa continues to drive impactful results in water resource management and conservation efforts.

Related Experience

Experience prior to Woodard & Curran

WESTERN MUNICIPAL WATER DISTRICT (July 2017 – August 2024)

Senior Water Resources Specialist

- Managed activities related to long-range water resources plans, studies, analyses, and special projects concerning water supply, system reliability, integrated resources, imported water, surface water, groundwater, wastewater, recycled water, stormwater, habitat conservation, climate resiliency, water use efficiency, conservation, energy management, and state and regional water issues.
- Liaison with governmental affairs stakeholders and represents Western at member agency/partner/coalition/industry group meetings, hearings, and conferences. Representative with MWD, SAWPA, WRCWRA, Member Agencies, and the State of California.
- Created and oversaw performance metrics and dashboards such as, Strategic Priorities, water resources departmental health, development services key performance indicators, drought compliance metrics and regulation impact analyses.
- Managed the 2020 Urban Water Management Plan Update including professional services procurement, contract management, data warehouse and reporting, 20x2020 compliance, public noticing, CEQA submission, and the public hearing for Board adoption.

- Managed the development of a Drought Contingency Plan including grant application and award, professional services procurement, contract management, stakeholder engagement outreach and workshops, Board updates, and Board adoption.
- Outreached, prepared, and managed Western's Drought Task Force with over 30 regional stakeholders in 5 interactive workshops while representing the District effectively with other agencies and environmental groups and ongoing semi-annual meetings.
- Managed the development and implementation of Water Shortage Contingency Plan and retail Ordinance – internal working groups, develop Ordinance with associated analyses, coordinate with legal counsel regarding Prop 218 requirements, conduct public noticing, present at public hearing for Board adoption, and develop an internal operating plan.
- Operated and redesigned the 2022 Inland Empire Landscape Contest with new features, ArcGIS Storymap for a virtual Landscape Tour, incorporating regional style guides and rebate programs for the Inland Empire regional water agencies. Increased sponsorships 4-fold.
- Assisted in the development of a Groundwater Sustainability Plan (GSP), liaison with Department of Water Resources, and manage the Prop 1 grant reporting requirements.
- Chaired the Urban Water Reporting – Aligning Definitions working group through the California Data Consortium; Chair of Water Use Action Team for the California Data Collaborative; Vice Chair of the California Data Collaborative Steering Committee.
- Developed and manage the Grants program including developing a Standard Operating Procedure, applying internally and receiving 6-fold increases in grant awards each calendar year from federal and state sources for projects related to local groundwater and water use efficiency. Funding opportunities include WaterSMART Water and Energy Efficiency, DWR Urban and Multibenefit Drought, Defense Community Infrastructure Program. Responsible for presenting grant related items to the Board of Directors and getting Board Authorized Resolutions.
- Planned and administered Western's \$150M+ grants program; researches and identifies grant and other funding opportunities; aligns Agency capital projects objectives with grantor objectives; directs, monitors and approves grant applications; negotiates grant agreement terms and conditions and performance and reimbursement requirements with federal, state and local agencies; develops functional and operational

policies and procedures outlining guidelines for implementing and monitoring grant programs.

- Managed the Capital Facilities Project - Victoria Recharge Basin Enhanced Monitoring Project – supported by Metropolitan Water District that involves the development, design, and construction of onsite improvements, such as a flow sensor, drilling and installation of two monitoring wells, development of an operations and maintenance manual, and CEQA.
- Created a new education initiative (children's book and in classroom activities) through evaluation of current assets, analysis of stranded assets, and 5 year planned out scalable effort.
- Coordinated PFAS treatment in recycled water work effort for the District and future use in recycled water.

Water Resources Analyst

- Conducted economic, financial and water use analyses in the areas of water supply development, demand management, demand forecasting, 20x2020 conservation reporting, and conservation rebate programs for Western's wholesale and retail service areas.
- Implemented streamlined and efficiency measures on Western's three watermaster reports – Santa Ana River Watermaster, Western/San Bernardino Watermaster, and Upper Santa Margarita Watershed Watermaster.
- Developed a new customer demand and water supply forecast method to be incorporated in Western's rates calculation.
- Conducted water savings analysis related to various Western rebate programs including Turf Replacement, Large Landscape, High Efficiency Toilets, High Efficiency Clothes Washers, and Weather Based Controllers. Analysis services have been provided to Western's retail agencies, including analysis on turf replacement and hot water recirculating pump rebates for Elsinore Valley Municipal Water District.
- Conducted water supply reporting and hydrograph analysis for Western's three annual Watermaster reports.
- Conducted a variety of organizational studies and investigations and recommends modifications to Water Resources program projects, policies, and procedures.
- Reviewed intra-agency projects, environmental studies, and State Water Control Board matters.
- Performed a variety of complex duties related to SARCCUP program coordination and administration.

Jeanna Long, PHD

Digital/Online Platform



Education

- Doctorate, Applied Physics, University of California, Davis
- Masters, Applied Physics, University of California, Davis
- Bachelors, Physics, California State University, Sacramento

Professional Profile

Jeanna has 20 years of experience in information systems design and development, business user management, requirements gathering and analysis, and database development and management. She drives cutting-edge digital innovation for Woodard & Curran, leveraging the firm's core competencies within the digital space while expanding upon digital and data science solutions. Additionally, Jeanna is responsible for exploring new technologies and approaches, ensuring the delivery of innovative digital solutions for our clients across the business. Her expertise in working with clients to collect and understand their needs has resulted in easy-to-use products that regularly receive client praise.

Related Experience

Santa Ana Watershed Project Authority (SAWPA), CA – Opti Implementation for Program Management. Task Manager responsible for collecting and analyzing user requirements; designing the system enhancements; managing the development, testing, and deployment of the enhancements; training team members and agency personnel on the use of the system; and communicating task status to other team members. The Santa Ana River Conservation and Conjunctive Use Program (SARCCUP) is being implemented by SAWPA and its five member agencies and is a collaborative program that improves the Santa Ana River Watershed's water supply resiliency through development of additional dry-year yield. Opti is being customized (Opti PM) to support management of the \$100M program. Opti PM includes tools to track project information, schedule, budget, deliverables, documents, invoices, progress reports, and communication. Opti facilitates program management and reporting to the Department of Water Resources by providing a centralized web-based and mobile-friendly location for all project information and allows the program manager to roll-up financial and progress-related information into easy-to-use reports.

Department of Water Resources (DWR), CA – Watershed Hub. Woodard & Curran worked with DWR and Jacobs to design and implement a one-of-a-kind performance tracking portal called the Watershed Hub (Hub). The Hub builds upon the Water Sustainability Atlas by providing a public portal to view and analyze project and regional data with statewide performance tracking metrics. The Hub provides a flexible platform with built in analytics to answer questions related to sustainability and resiliency, summarize performance tracking metrics for the entire state and compare across watersheds, intersect equity data to show impacts and progress across vulnerable communities, identify investment opportunities based on local environmental conditions, and show performance of state actions and support decision making. Jeanna is served as the Project Manager and was responsible for overall product design and implementation.

Los Angeles County, CA – Water Plan Portal. Project Manager responsible for leading the development and implementation of the LA County Water Plan Portal (Portal). The Portal strives to inform the public and stakeholders about the value of water and how the LA County Water Plan will help support an inclusive, regional path forward to sustainable water management. The Portal will also help communicate progress toward regional goals through collection of grant funded project benefit tracking. Additionally, the Portal includes tools to help facilitate plan development among participants in the workgroups and document development. The collaboration tools include calendars, document sharing, and communication tracking to streamline and automate many collaboration processes.

Various Clients, CA – Opti Implementations for Integrated Regional Water Management. Project Manager responsible for customizing and implementing the web-based software and providing user training and technical support. Opti is an easy-to-use web-based project collaboration and communication tool that helps stakeholders

share, track, and report project information. Opti is currently installed in seven Integrated Regional Water Management (IRWM) regions to facilitate a transparent process for identifying and prioritizing regional projects for inclusion in IRWM plans and for funding opportunities.

Eastern Municipal Water District, CA – Water Conservation Marketing and Outreach Services Project.

As a Technical Advisor, Jeanna is supporting Eastern Municipal Water District (EMWD) to expand their “Landscapes for Living” program by providing technical guidance to the team on microsite enhancements, conservation portal integration, and end user testing to ensure seamless upgrades and enhancements. EMWD brought on Woodard & Curran to help increase engagement with diverse communities in the program through targeted customer education and awareness. Project includes facilitating a visioning workshop, completing a public opinion survey for market analysis, development of a microsite and back-end database for program processing, marketing materials, community outreach, and public meetings. Through this work, we plan to expand the program by user type and user demographic as well as streamline processes for staff via our online portal.

Water Replenishment District of Southern California, CA – Groundwater Pumper Portal.

Project Manager leading the development and implementation of the Pumper Portal for the Water Replenishment District of Southern California (WRD). The Pumper Portal was developed to manage monthly water production and water rights transactions for water producers and rights holders in the Central and West Coast Basins of WRD’s service area. The Pumper Portal replaces a paper-dependent process where every month water producers would submit production reports via email, fax, or mail. These reports were then hand entered into an MS Access database, from which reports could be created to facilitate invoice creation. The Pumper Portal streamlines and modernizes the process by allowing the water producers to enter, submit, and manage their monthly reports online or via a mobile-friendly interface. WRD manages the workflow and approvals of the monthly reports. The Pumper Portal is integrated with WRD’s SQL Server database data warehouse and is installed and maintained in WRD’s cloud service. Jeanna has been responsible for leading requirements collection, design, development, testing, data conversion, and coordination.

Department of Water Resources, CA – Water Accounting Tool. Jeanna is currently leading the technical implementation of the DWR Water Accounting Tool (CalGW), a tool designed to systematically organize, synthesize, visualize, and communicate water budget information from various formats using standardized water accounting templates. The tool translates unorganized

water budget information into intelligent, pre-designed visualizations. Jeanna leads the development team in guiding technology decisions and implementing the preliminary functionalities of the Water Accounting Tool.

Alameda County Water District (ACWD), CA – Water Conservation Portal.

Woodard & Curran has recently initiated a project with ACWD to design and implement a Water Conservation Portal in support of the agency’s Water Efficiency Master Plan. The Portal will include modules to track customers and properties, manage programs and create and publish associated application forms, and allow customers to submit and management applications, relevant information and documents, and communication. The Portal will include automated calculations to ensure data quality, map-based views for visualization, dashboards for efficient program management and decision making, and workflows and approval processes based on user roles. Jeanna is serving as the Principal-in-Charge and is responsible for overall product quality and client satisfaction.

Various Agencies, CA – SGMA Data Management System Development and Implementation.

Currently leading development and implementation of a state-of-the-art data management system (DMS) to support groundwater sustainability plan (GSP) development and implementation. The DMS is an upgraded version of W&C’s HydroDMS built on the Opti platform to provide a flexible and open one-stop-shop for sustainable groundwater management monitoring and reporting. The DMS facilitates transparent and efficient data entry and visualization, streamlines coordination and data sharing among stakeholders, and support automated reporting to both management teams and the State. Since it is built on the Opti platform, the DMS support future enhancements and connections to modeling results, other local DMSs, and statewide datasets. Jeanna has been responsible for leading the design, development, testing, data conversion, and overall task management for the DMS.

Sacramento Metropolitan Air Quality Management District (SMAQMD), CA – AiriA System Development.

Woodard & Curran has recently initiated a project with the SMAQMD to design and implement a custom web-based software solution (named AiriA) to track the District’s air quality permitting process, compliance and inspections, billing and revenue collection, vehicle replacement and incentives, emission reduction credits, public complaint management, and public records management. The custom solution will replace multiple MS Access databases and other outdated systems. AiriA will be integrated with the District’s GIS, financial management, and payment systems. Jeanna is serving as the Principal-in-Charge and is responsible for overall product quality and client satisfaction.

Ryan Hirano

Tribal Engagement



Education

- Bachelors, Environmental Science, University of California, Irvine

Professional Profile

Ryan is a Water Resources Planner with experience in federal and state funding programs, grant administration, and community outreach, working specifically with Underrepresented or Disadvantaged Communities. Ryan has also supported the preparation of Integrated Regional Water Management (IRWM) plans and Urban Water Management Plan (UWMP). His funding experience includes grant applications for a variety of federal and state programs including U.S. Bureau of Reclamation WaterSMART, U.S. EPA Community Grants, California Proposition 1 IRWM grants, and State Revolving Fund grants.

Related Experience

Stockton East Water District, CA – Calaveras River Watershed Resiliency Plan. Ryan is supporting development of a Watershed Network component of this effort to develop a watershed-wide resiliency program as part of the California Department of Water Resources' efforts in the 2023 California Water Plan. Ryan is focused on collaboration with external partners to support multi-benefit solutions.

San Francisco Estuary Partnership, CA - Bay Area IRWM Disadvantaged Communities and Tribal Involvement Program. Ryan provided long-term support to the Bay Area IRWM Disadvantaged Communities and Tribal Involvement Program (DACTIP), partnering directly with community-based organizations throughout the Bay Area on the Bay Area's needs assessment. Ryan lead the capacity building activities for the partner organizations, including the development of a shared online resource library, collated funding opportunities sheet, and grant writing services. Ryan has also helped co-write and edit the Bay Area IRWM's Needs Assessment Report and Tap Water Testing Report in conjunction with the San Francisco Estuary Partnership and the partner organizations.

San Francisco Public Utilities Commission, CA - Bay Area IRWM Programmatic Support. Woodard & Curran provided programmatic support to the Bay Area IRWM's Proposition 1 Disadvantaged Communities and Tribal Involvement Program (DACTIP). The Bay Area's DACTIP contracted directly with outreach partners, governmental and non-profit organizations that have strong relationships with disadvantaged or underrepresented communities, to conduct water needs assessments. Woodard & Curran coordinated the needs assessment efforts with the outreach partners and supported the analysis of the data collected during the needs assessment process. Ryan prepared the IRWM Plan Update to ensure eligibility for Proposition 1 IRWM funding, including input from Bay Area Tribes and disadvantaged communities, and coordinated with outreach partners and the DACTIP grant administrator, San Francisco Estuary Partnership.

City of Berkeley, CA - The Environmental Justice Coalition for Water. As Program Coordinator, served as point person for administrative work and creation of state program reporting materials for the Bay Area Disadvantaged Communities and Tribal Involvement Program (DACTIP). Worked with 13 outreach partners to create outreach materials and facilitate resource sharing between organizations. DACTIP is a Proposition 1 funded program designated to include the voices of disadvantaged communities, economically distressed areas, and underrepresented communities. Part of the program is a Needs Assessment to better understand the issues facing these communities and find ways to include them into regional planning efforts. The Bay Area DACTIP's Needs Assessment is designed so that outreach partner organizations are directly in these communities.

West Basin Municipal Water District, CA - IRWM Proposition 1 Round 2 Grant Application. Ryan supported the preparation of the regional Proposition 1 Round 2 grant application which included 17 projects across the

Greater Los Angeles IRWM Region. Ryan prepared and compiled the required attachments and worked with the West Basin Municipal Water District to submit the final package to the Department of Water Resources.

Coachella Valley Water District, CA – Leon Housing Drinking Water State Revolving Fund Application. Ryan supported the preparation of Coachella Valley Water District's Drinking Water State Revolving Fund application for its Leon Housing Water Consolidation Project. Ryan worked with district staff to prepare the General, Technical, Environmental, and Financial packages including the preparation of the Technical Report.

City of Cathedral City, CA - Septic-to-Sewer Planning Grant. Ryan supported the preparation of the City of Cathedral City's Clean Water State Revolving Fund planning grant application for its Septic-to-Sewer Planning Grant Project to consolidate areas within the City on septic systems to the municipal systems of Coachella Valley Water District (CVWD) and Desert Water Agency (DWA). Ryan coordinated closely with City of Cathedral City staff throughout application preparation to prepare the Plan of Study, required forms, and compile the final package. Ryan also coordinated with CVWD and DWA staff to discuss the project and gather information from the two agencies necessary for the project application. Ryan supported the City with additional coordination with the State Water Resources Control Board (SWRCB) to respond to revision requests following submission and help the City execute its agreement with SWRCB for the planning grant.

Santa Margarita Water District, CA – U.S. Bureau of Reclamation WaterSMART Drought Response Program: Drought Resiliency Projects for Fiscal Year 2025 Application. Ryan prepared the application for Santa Margarita Water District's South Orange County Water Resiliency Decision support Tool. Ryan prepared the technical proposal to meet all stated criteria, the budget narrative, and all relevant federal forms. Ryan also coordinated submission of the materials through the Grants.gov portal.

City of Patterson, CA – U.S. Bureau of Reclamation WaterSMART Planning and Project Design Grant Application. Ryan prepared the application for the City of Patterson's Del Puerto Creek Recharge and Recovery Project. Ryan prepared the technical proposal to meet all stated criteria, the budget narrative, and all relevant federal forms.

Napa Sanitation District, CA – On-Call Funding Support. Ryan supports the Napa Sanitation District with funding tracking and strategy services. Ryan meets bimonthly with representatives from the Napa Sanitation District and updates a funding tracker with new

opportunities for identified priority projects. Ryan also provides follow-up on any topics of interest stemming from the meeting.

Del Puerto Water District, CA – Reservoir Decision Support Tool IRWM Proposition 1 Round 2 Application. Ryan prepared Del Puerto Water District's successful Proposition 1 Round 2 grant application for the Reservoir Decision Support Tool (DST). Ryan coordinated with Department of Water Resources (DWR) staff to confirm the DST was an eligible project and that all required information was submitted. Ryan also supports grant administration for the project, preparing and submitting the quarterly reporting materials and coordinating with DWR on comments.

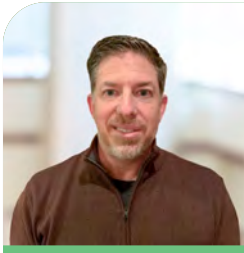
San Francisco Public Utilities Commission, CA - Green Infrastructure Grant Program Outreach. Ryan provided outreach and engagement support to the San Francisco Public Utilities Commission's Green Infrastructure Grant Program (GIGP). The GIGP runs a competitive cycle and recently expanded eligibility to include community groups and developers in addition to large parcel land owners. Ryan helped develop an outreach and engagement strategy for the GIGP, particularly focusing on districts that were not well-represented in the program and ensuring that newly eligible entities are aware of the program.

PRIOR TO WOODARD & CURRAN

Santa Ana Watershed Project Authority (SAWPA), CA – Disadvantaged Communities Involvement Program. As a CivicSpark AmeriCorps Fellow, provided programmatic support to the Santa Ana funding region's Disadvantaged Communities Involvement Program. Support included drafting chapters of SAWPA's 2018 IRWM Plan Update, managing Community Water Internship Program, and conducting interviews with water agency representatives for the Strengths and Needs Assessment to help identify potential projects to address needs. The Disadvantaged Communities Involvement Program is a Proposition 1 funded program designated to include the needs of disadvantaged communities, economically distressed areas, and underrepresented communities into regional planning processes. The Santa Ana funding region's Disadvantaged Communities Involvement Program includes a Strengths and Needs Assessment, conducted through interviews with various stakeholders. Stakeholders interviewed ranged from water managers to community members. The DCI Program also included funding for internships for students in the Santa Ana funding region to benefit agencies and non-profits.

Richard Harmon

Funding



Education

- Masters, Business Administration, San Diego State University
- Bachelors, International Business, San Diego State University

Professional Profile

Richard brings nearly 25 years of government affairs and project advocacy experience at the federal, state, and local levels. His experience extends from water and infrastructure policy and funding to legislative solutions for public agencies. For the last decade, Richard has managed all aspects of public agency client advocacy. Prior to that, Richard served as Governor Arnold Schwarzenegger's transportation policy liaison between the Administration and both the California Legislature and the United States Congress. He also possesses extensive legislative and political experience from serving as Chief of Staff and Campaign Manager for a California State Assembly Member.

Related Experience

City of Inglewood, CA – Edward Vincent Jr. Park Stormwater Improvements Project Design. As Funding Lead, Richard supports the City by leading a funding team for the project, maintaining transparency, ensuring document/application control accuracy, and supporting compliance with funding regulations. Richard leverages his experience in government affairs and project funding advocacy at the federal, state, and local levels to develop strategic funding approaches for the project and facilitates coordination with key funding collaborators including public agencies, nonprofit and private organizations, as well as state and federal elected officials that are positioned to contribute additional funding for project elements, features, and amenities.

Eastern Municipal Water District, Perris, CA - Purified Water Replenishment Project Funding Plan.

Developed a funding plan describing the success to date of EMWD efforts to secure external funding for the PWR Program, including pending requests and applications. The plan also articulated several opportunities for additional funding that may be considered by EMWD for future program components and activities. 03/23 – 06/23

Napa Sanitation District, CA – On-Call Funding Support. Richard supports on-call funding activities for the Napa Sanitation District by providing funding landscape analysis and pursuit strategy development. This includes advising the District on timelines of upcoming funding opportunities and coordinating in the development of funding matrices. Support includes participation in meetings with District staff to evaluate Capital Improvement Program projects and suitability for external funding.

Multiple Clients, CA - Water Recycling and Reuse Funding Application Coordination. Funding lead for Woodard & Curran client applications to the U.S. Bureau of Reclamation Title XVI Program. Coordinated the team effort to submit and support nine client applications, securing more than \$135 million of federal infrastructure funding, representing 43% of funding awarded nationwide. 01/22 – 09/22

City of Hesperia, CA – Hesperia Reclaimed Water Pipeline Distribution System. Worked with the City of Hesperia to secure a \$14.7 million loan and grant combination from the State Water Resources Control Board's Clean Water State Revolving Fund (CWSRF) to develop a reclaimed water pipeline distribution system. The project conveys tertiary-treated water from its wastewater treatment facility to various locations in the City, with future plans to reach other areas.

Cities of Turlock, Modesto, and Del Puerto Water District, CA – North Valley Regional Recycled Water Program. Worked with the Cities of Turlock and Modesto and the Del Puerto Water District to secure nearly \$100 million in CWSRF funding for the North Valley Regional Recycled Water Program, allowing for the use of municipal-treated wastewater in the Delta-Mendota Canal and agricultural application.

City of Moreno Valley, CA – SoCal Freight Gateway SR-60 Truck Safety and Efficiency Project. Worked with the City of Moreno Valley to secure a \$16.8 million grant for their SoCal Freight Gateway: SR-60 Truck Safety and Efficiency Project. Leveraging close relationships at the California Transportation Commission, worked with the City on the development and submittal of a Trade Corridor Enhancement Program application to fund the project.

City of Benicia, CA – Benicia Grant Application Package and Memorandum of Understanding. Task Manager for development of the grant application package for a \$5 million state earmark, coordination with California Natural Resources Agency staff, and subsequent development of an MOU between the City and local nonprofit.

City of Pismo Beach, CA – Central Coast Blue Project. Worked with the City of Pismo Beach to secure approvals and funding to advance the Central Coast Blue project. Planning funding was secured and an application developed for the State Water Resources Control Board to complete this project to inject treated wastewater for groundwater and to prevent sea water intrusion.

Additional Experience

- Richard leads a team with extensive experience pursuing and capturing grant and loan funding through state and federal programs.
- He has expertise in monitoring congressional and state legislative funding activities from budget priorities and federal appropriations to reauthorizations to earmark request opportunities.
- Richard places an emphasis on the potential for future funding—such as voter-approved bond measures—as it develops at the state and federal levels and actively monitors those opportunities.
- Richard provides periodic updates on issues impacting funding opportunities, including such areas as domestic-origin (Build America Buy America) requirements.
- He has administered grant and loan agreements and assisted with bid processes to ensure compliance with funding under the various funding programs.
- Richard has relationships with the funding agency project managers to help get quick responses to any questions or requests that we have during the funding management process.
- Richard supports clients, either directly or indirectly, in many ways, including through the direct preparation of progress reports and funding agreement documents, preparation of draft resolutions and staffing reports,

and by developing and implementing strategies to prioritize and execute funding applications and other related documents.

PRIOR TO WOODARD & CURRAN

Sacramento, CA – Townsend Public Affairs, Inc. Senior Director. As a State- and federal-registered lobbyist, Richard provided advocacy to a client portfolio of predominantly public agencies across California—cities, counties and special districts—as well as private business clients. Advocacy efforts included development of funding applications, advocacy with funding agencies, pending State and federal legislation, including development of funding bond measures, regulations, client sponsored legislation, and advocacy trips to Sacramento and Washington, D.C.

His position involved sensitive work with not only federal and State elected representatives, but with numerous local elected bodies. The normal client portfolio included more than 15 public agencies, each with a unique political makeup and priorities. His responsibilities included:

- Maintained fluency in multiple subject areas affecting public agency clients, including water and utilities, transportation, energy, public safety, and other local governance issues.
- Developed funding strategies and applications for public agency priority projects and programs, particularly water and transportation infrastructure projects.
- Represented clients before Congress, the State Legislature, Presidential and Gubernatorial Administration agencies, as well as other stakeholders and associations.
- Organized and lead delegation advocacy trips for elected officials and staff in Sacramento and Washington, D.C.
- Staffed local agency legislative committees and project workgroups and presented to councils, boards and other governing bodies on activities.
- Developed legislative platforms and strategies for clients through input and collaboration with their elected officials and staff.
- Monitored and made recommendations on pending State and federal legislation, regulations, and funding program guidelines.
- Developed and advanced legislation sponsored by clients, as well as negotiated amendments with bill authors and supporters on legislation impacting clients.

Dawn Flores

Watershed Resiliency Metrics



Education

- Masters, Environmental Science and Management, University of California, Santa Barbara
- Bachelors, Geography, University of California, Santa Barbara

Professional Associations

- California Stormwater Quality Association

Professional Profile

Dawn has over 17 years of experience in water resources planning. She is experienced in strategic water supply planning, demand forecasting, grant writing, water quality evaluation, climate change evaluation, advanced data analysis, and water resources modeling. Dawn's water resources modeling experience includes the use of decision support systems such as Water Evaluation and Planning System (WEAP), GoldSim, and RiverWare. Dawn is experienced in advanced GIS applications including spatial analysis, geodatabases, spatial statistics, and terrain analysis.

Related Experience

Los Angeles County Department of Public Works, CA – County Water Plan. Task lead for development of targets and metrics for the countywide water plan. Work included reviewing water resources-related documents developed by cities and agencies located within the County to identify water resources needs, development of targets to measure progress in addressing needs, and calculation of baselines and metrics for measuring progress. This work involved working closely with team members leading technical advisory and stakeholder workshops to ensure feedback was incorporated and ensuring that the targets could be incorporated into the online tracking system also developed as part of the project.

Eastern Municipal Water District (EMWD), CA – Water Supply Planning Study. Technical lead for preparation of EMWD's Water Supply Planning Study (WSPS), which is currently under development. Dawn is leading the technical planning effort which includes development of separate demand projections for each of EMWD's five retail demand areas and wholesale demands, evaluation of baseline supplies, development of supply options which includes planning-level facility and cost development, alternatives development, and evaluation of alternatives using a GoldSim model and Woodard & Curran's IPTool. As part of this project, Dawn developed assumptions regarding the impacts of climate change on demand, local water supplies and State Water Project supplies to determine the vulnerability of EMWD's supply reliability to climate change impacts. In addition, the greenhouse gas emissions of future supply alternatives are estimated for inclusion in alternatives evaluation.

San Bernardino Valley Municipal Water District, CA – Integrated Regional Urban Water Management Plan Update for the Upper Santa Ana River Watershed. This plan combined the requirements of a Regional Urban Water Management Plan (UWMP) and Integrated Regional Water Management Plan (IRWMP) into one truly integrated, regional plan. Dawn was the task lead for components needed to meet CA Department of Water Resources requirements for IRWMPs. This work included updating goals, objectives and targets, updating non-supply portions of region descriptions, and facilitating workshops. Dawn was also the Project Manager for the 2015 update of the Upper Santa Ana River Watershed IRWM Plan. This work included revising objectives and strategies, incorporating information to allow the IRWM Plan to meet Proposition 84 standards, and reviewing chapters to ensure they're written in a consistent voice, and developing a process for incorporating the IRWM Plan into the area's Regional Urban Water Management Plan.

Upper Santa Margarita Water District, CA – Integrated Regional Water Management Plan Update and Program Management. Project Manager responsible for supporting the Upper Santa Margarita Watershed IRWM Region to ensure that an ongoing integrated, regional approach is used to maintain long-term viability of the Region's water resources. Woodard & Curran worked with the Upper Santa Margarita Integrated Regional Water Management Region to update its IRWM Plan. This work includes expanded disadvantaged community and Native American tribal

community outreach efforts, updating and prioritizing the region's project list, revising water resources objectives and targets, and incorporating a newly added watershed to the region's boundaries. Dawn was responsible for drafting the IRWM Plan Update, assisting stakeholder meeting preparation and facilitation, and incorporating recently completed planning documents. Dawn is also responsible for implementing ongoing IRWM program management, which includes coordinating stakeholder meetings, coordinating regional water management group meetings, ensuring ongoing project inclusion in the IRWM Plan, and development of outreach materials.

Antelope Valley State Water Contractors Association, CA – Antelope Valley Integrated Regional Water Management Program. Project Planner responsible for assisting in drafting the plan update and developing the climate change adaptation and mitigation portion of the plan update, including working with a climate change working group through a series of workshops. The climate change portion of the IRWMP update involved the identification of climate change impacts, prioritization of vulnerabilities, identification of adaptation and greenhouse gas mitigation strategies, development of a climate change objective/target, and incorporation of climate change into project prioritization.

San Diego County Water Authority, CA – San Diego Integrated Regional Water Management Program. Project Planner responsible for the development of a Climate Change Study that was used in the update of the San Diego IRWM Plan. This work involved working with a climate change workgroup to identify climate change impacts, prioritize vulnerabilities, identify adaptation and greenhouse gas mitigation strategies, develop a climate change objective/target, and develop a method to incorporate climate change into project prioritization.

Alameda County Water District, CA – Water Resources Master Plan, Phases 1 and 2. Technical Advisor responsible for the overall planning and direction of the Alameda County Water District's (District) 2025 Water Resources Master Plan (WRMP). With its last comprehensive planning process conducted in 1995, the District has experienced many changes that warrant a fresh look at the future of its water supply. The goal of the WRMP is to inform critical decision making on future infrastructure and water supply investments, bearing in mind the District and the community's current values and priorities. Woodard & Curran supported the District with a progressive scoping model, splitting the project work into two phases. The first phase centered a collaborative approach that focused on working with District staff, Board members, interested parties, and the public to create a meaningful and highly tailored planning framework

that will be implemented in a Phase 2. Under Phase 2, Dawn has been responsible for developing supply scenarios to be modeled as part of the supply reliability analysis, and developing alternative portfolios to assess future reliability.

Riverside County Flood Control and Water Conservation District, CA – Santa Ana River Watershed Stormwater Resource Plan (SWRP).

Technical Support for the development of a SWRP for the Riverside County portion of the Santa Ana River Watershed. Work included identification of watershed water quality priorities, stakeholder outreach and meeting facilitation, stormwater and dry weather capture runoff project opportunities identification, and project prioritization using an integrated metrics-based analysis of multiple benefits.

Metropolitan Water District of Southern California (Metropolitan), CA – Resources Vulnerability Assessment. Project manager for the Resources Vulnerability Assessment where Woodard & Curran prepared the preliminary research and assessment of water supply vulnerability in anticipation of the Metropolitan's 2020 Integrated Resources Plan Update. The assessment used research vulnerability analyses already completed by Metropolitan staff as well as other local, regional, and federal agencies who impact Metropolitan and identified data gaps that may need additional study. Woodard & Curran conducted a broad investigation of other planning documents that provided information on uncertainties that could impact Metropolitan's and its member agencies supplies, such as demographics, regulations, seismic events, political decisions, and climate change. Additionally, Woodard & Curran identified relevant vulnerabilities for Metropolitan resources and characterized and assessed, qualitatively but based on technical information, the magnitudes of those vulnerabilities.

Palmdale Water District (PWD), CA – Strategic Water Resources Plan. Technical Lead for preparation of the Strategic Water Resources Plan for Palmdale Water District, which is currently under development. Dawn is leading the team responsible for developing a demand projection tool that incorporates current regulations and climate change, evaluating supplies, developing options, developing alternative portfolios, and evaluating portfolios using a WEAP modeling and Woodard & Curran's in-house Integrated Planning Tool (IPTool). Dawn also supported the development of PWD's original Strategic Water Resources Plan completed in 2010.

Millicent Cowley-Crawford, PE, CFM

Adaptation Strategies



Education

- Bachelors, Civil/Environmental Engineering, Humboldt State University
- Associates, Civil/Environmental Engineering, College of the Siskiyous

Registrations

- Professional Engineer - CA, C66597
- Certified Floodplain Manager, US-19-11247

Professional Associations

- Floodplain Management Association, Director

Specialized Training

- AWIA Certification
- HEC-RAS 1-D and 2-D modeling software

- XPSWMM modeling software
- Flo-2D modeling software
- NFIP certifications include elevation certificate, CRS, Duties of the Floodplain Administrator

Technical Expertise

- Hydrologic and hydraulic modeling
- Flood mapping
- Risk assessments
- Capital planning
- Multi-benefit project formulation and analyses
- National Flood Insurance Program compliance

Professional Profile

Millie is a senior expert in water resources management and planning at Woodard & Curran with over 20 years of experience in State government and private practice. She supports clients in identifying funding, preparing detailed hydrologic and hydraulic modeling, adapting to sea level rise and climate change, asset management and master planning, performing levee, canal, and channel inspections and risk assessments, identifying and prioritizing mitigation, disaster response and recovery, and complying with the National Flood Insurance Program. As a certified floodplain manager, she helps communities understand and manage flood control risk and prepare capital planning and design of critical infrastructure to meet a wide variety of project needs.

Related Experience

City of Millbrae, CA – Sea Level Rise Adaptation Assessment. Project manager for the conception, funding and execution of a sea level rise adaptation assessment for Millbrae. Work included mapping of inundation areas, coordination with regional partners and public outreach to communicate flood risk and identify potential shoreline solutions for further study and funding.

City of Santa Rosa, CA – Climate Vulnerability Assessment. Project Manager for the Disaster Preparedness Assessment Report and Action Plan for the City's Laguna Treatment Plant (the Plant) to comply with Regional Board requirements. The City had concerns around the vulnerability of assets and the need to identify adaptation measures to address a range of potential natural disasters, including floods, drought, fire and fire conditions, and earthquakes. Worked with City staff to prepare a plan that will help the City and their stakeholders understand potential threats facing the Plant and trunk sewer. Findings were included in a technical memorandum (TM), which provides an assessment of the potential vulnerabilities of the Regional Water Reuse System (the System) in the City and includes a range of recommendations to mitigate impacts to operation of the System. An initial list of key assets was developed and refined and a criticality score (that contributes to an understanding of consequence of failure) was assigned. Once assets were identified, likelihood and consequences of failure due to each threat were evaluated in collaboration with City staff. Based on the findings, the assessment identified both a focused suite of high priority projects to potentially implement in the near term and a range of potential future mitigations and investigations for the City to consider.

Sonoma Water, CA – Upper Petaluma River Watershed Feasibility Analysis. Project Manager for an analysis of the feasibility of floodplain modification and detention basin implementations in the Upper Petaluma River Watershed. Analyses included identification and prioritization of potential project sites, one- and two-dimensional hydraulic modeling, concept development, completing a feasibility technical memorandum, and supporting Sonoma

Water's landowner and community outreach process. The project focused on identifying and quantifying the suitability of potential parcels in the upper Petaluma River watershed to support project identification and future final design, grant acquisition, and implementation.

City of Millbrae, Pacific Gas & Electric, CA – Joint Use Force Main Construction Contingency Plan.

Project Manager for a construction contingency plan for a 39-inch joint use force main conveying wastewater from Millbrae's Water Pollution Control Plant (WPCP) north to the South San Francisco Water Quality Control Plant. The Millbrae WPCP and the City of Burlingame's Wastewater Treatment Facility discharge to the force main. Efforts included data collection, coordination with stakeholders, and development of recommendations to reduce risks and consequences of failure.

Town of Agawam, MA – Climate Impact Assessment.

In support of the Town's Stormwater Master Plan development and MS4 permit compliance program, changes in precipitation intensity and frequency due to climate change were quantified. Vulnerable areas and infrastructure within the Town were identified, and future drainage system improvements were identified and prioritized. The Assessment considered critical facilities and infrastructure that are at greatest risk and would have the greatest impact if they fail. It also incorporated information related to the changes in precipitation that are being reviewed by the Massachusetts Department of Environmental Protection (MassDEP) Stormwater Advisory Committee. Additional climate stressors such as urban heat island effect and other potential impacts, such as those based on environmental justice were discussed, using available state-wide and regional data.

Santa Clara Valley Water District, CA - AWIA Compliance Risk and Resilience Assessment.

Risk and Resilience Assessment Manager. Project Engineer/Manager for preliminary phases of assessment of AWIA compliance of Valley Water facilities. Performed natural hazards assessment and compliance gap analysis. Conducted interviews with key staff to assess current state of compliance with asset management, cyber security, dam safety, emergency preparedness and water treatment standards.

U.S. Army Corps of Engineers, CA – Levee Safety Action Classification Risk Assessments.

Hydraulic Lead. Coordinated the analysis of available hydraulic data to qualitatively and quantitatively assess the risk and consequences of levee failures on over 290 miles of levee systems in California and Arizona. Assessments considered past performance during historic flood events and the annual chance of exceedance for loading and overtopping in order to contribute to an understanding of the risk of failure. Services included field inspections, analysis, and collaboration with USACE

hydraulic engineers to prepare and present screenings to a national cadre of levee experts and the USACE's Levee Safety Oversight Group.

California Department of Water Resources (DWR), CA – Flood System Repair Project.

Task Manager responsible for data collection and management; coordinated development of a custom field data collection and reporting tool and database to record observations of levee past performance problems from multiple field teams and provide comprehensive reporting on inspection findings for DWR's Flood System Repair Project. This task also included the development of a geodatabase to present project findings that was included in DWR's Central Valley Flood Protection Plan regional atlases.

San Francisquito Creek JPA, CA – Upper San Francisquito Creek Detention Feasibility and Preliminary Design.

Project Manager for determination of the engineering feasibility of diversion and detention of floodwaters in the upper portion of the San Francisquito Creek watershed to mitigate downstream flooding during the 100-year event. Studies included field investigations, hydraulic modeling, geotechnical analyses, preliminary civil design to meet complex environmental challenges including site constraints due to fish passage, biological and cultural resources, and cost estimating.

DWR, CA – Sacramento-San Joaquin Delta Channel Modification Design.

Hydraulic Engineer responsible for channel modification design. Updated the Delta Simulation Model II (DSM2) to evaluate Delta water quality and conveyance capacity under a variety of inflow and operations scenarios for the DHCCP Program. Investigated channel modification designs to improve export water quality under various project operation alternatives.

PRIOR TO WOODARD & CURRAN

Santa Clara Valley Water District, CA – Risk and Resilience Assessment Manager.

Project Engineer/Manager for preliminary phases of assessment of AWIA compliance of Valley Water facilities. Performed natural hazards assessment and compliance gap analysis. Conducted interviews with key staff to assess current state of compliance with asset management, cyber security, dam safety, emergency preparedness and water treatment standards.

FEMA, Various Locations, CA – FEMA Loss Avoidance Hydraulic & Hydrology Analyses.

Hydraulic Engineer assisted in the analysis of a wide variety of flood control projects at 19 locations in 12 northern California counties. The effectiveness and economic performance of flood control and structural elevation mitigation projects were evaluated through determination of flood damages avoided by mitigation.

Brenda Ponton, ENV SP

Stormwater/Surface Water



Education

- Masters, Environmental Science and Management, University of California-Santa Barbara
- Bachelors, Molecular & Cell Biology, University of California-Berkeley

Registrations

- Envision Sustainability Professional

Professional Associations

- California Stormwater Quality Association (CASQA)
- Southern California Water Committee – Stormwater Task Force
- Water Environment Federation

Professional Profile

Brenda has 12 years of experience in stormwater management and water resources planning. Her background is in environmental science and management with a focus on stormwater and watershed management. She has experience working on a variety of water resources projects, particularly related to multi-benefit project concept development, stormwater management feasibility studies, watershed management program planning and implementation, stormwater resource planning, and total maximum daily load program implementation. Additional experience includes stormwater funding support and stakeholder outreach.

Related Experience

Santa Ana Watershed Project Authority (SAWPA), CA – Santa Ana River Conservation and Conjunctive Use Program (SARCCUP).

SAWPA was awarded \$55 million for the SARCCUP project through the Department of Water Resources' Proposition 84 Integrated Regional Water Management grant program and Woodard & Curran was hired to manage the program implementation for SARCCUP. Project responsibilities include ensuring all project components remain on track and project deliverables are submitted in a timely manner. Brenda is responsible for the program management database for SARCCUP (Opti PM) and coordination with SAWPA and five sub-grantees on components related to schedule, budget, progress reporting, and invoicing.

Riverside County Flood Control and Water Conservation District, CA – Santa Ana River Watershed Stormwater Resource Plan (SWRP).

Project Manager for the development of a SWRP for the Riverside County portion of the Santa Ana River Watershed. Work included identification of watershed water quality priorities, stakeholder outreach and meeting facilitation, stormwater and dry weather capture runoff project opportunities identification, and project prioritization using an integrated metrics-based analysis of multiple benefits.

San Bernardino Valley Municipal Water District, CA – Upper Santa Ana River Watershed Management Integrated Regional Water Management (IRWM) Program.

Woodard & Curran worked with the Upper Santa Ana River Watershed IRWM Region to update its IRWM Plan. As Project Planner, Brenda helped revise the Region's water management objectives and strategies and incorporate new information into the document to allow the IRWM Plan to meet the Department of Water Resources Proposition 84 standards. Brenda also helped reorganize and revise language throughout the document to ensure it read in a concise and consistent voice.

Los Angeles County Department of Public Works, CA – Los Angeles County Water Resilience Plan.

Project Planner responsible for drafting Technical Memorandums describing the water resources setting in the County, resilience strategies and projects, key information gathered from agency interviews, and an overall evaluation of water resilience in the County. Work included compiling information gathered during interviews with 19 water, wastewater, and flood control agencies in the County as well as developing a broad planning document overview.

Riverside County Flood Control and Water Conservation District (RCFCWCD), CA – Opportunities and Constraints for Stormwater Conservation.

As Project Planner, assisted with developing fact sheets for 17 groundwater basins in Riverside County which included a description of physical properties, contaminants of concern, operations and management, stakeholders, and opportunities and constraints for using RCFCWCD facilities stormwater capture and groundwater recharge.

Coachella Valley Water District (CVWD), CA – Coachella Valley Integrated Regional Water Management/Stormwater Resource (IRWM/SWR) Plan. Stormwater Task Manger responsible for incorporating stormwater quality priorities and SWRP project prioritization methodologies into the Coachella Valley IRWM/SWR Plan as part of the IRWM funded 2018 Plan update. Brenda was responsible for identifying and incorporating SWRP requirements into the IRWM Plan to adhere to the 2015 Stormwater Resource Plan Guidelines and Water Code as well as managing the SWRP submittal to the California State Water Resources Control Board for concurrence review and updating the SWRP project list for the 2020 Storm Water Grant Program funding solicitation.

City of Inglewood, CA – Edward Vincent Jr. Park Stormwater Improvements Project Design. As Project Manager, Brenda is managing the design of a large, regional, multi-benefit stormwater capture project at a park in Inglewood. The project includes preliminary and final design subsurface infiltration galleries, a dry creek channel, and a bioretention area, as well as park amenities, landscaping, and educational features. Brenda is also managing development of environmental documentation, permitting with Los Angeles County Flood Control District, community outreach and engagement with local underserved communities, funding stakeholder identification and coordination, Safe, Clean Water Program reporting and construction application development, and planning for of post-construction operations, maintenance, and benefits monitoring.

Los Angeles County Public Works, CA – Edward Vincent Jr. Park Stormwater Improvements Project Feasibility Study. As Project Manager, Brenda managed a diverse team to complete a Feasibility Study for a regional, multi-benefit stormwater capture project at a park in the City of Inglewood, funded through Los Angeles County's Safe, Clean Water Program. Work included identifying stormwater capture concepts that prioritize nature-based solutions and address stormwater quality issues, developing an outreach plan and monitoring plan, and quantifying long-term water quality and community benefits to meet the municipal stormwater permit requirements while also addressing community needs. The project included conceptual design for an infiltration gallery, a dry creek channel, and a bioretention area at a park to manage stormwater from an 895-acre drainage area.

City of San Jose, CA – River Oaks Stormwater Capture Project. As Project Planner, provided hydrology and water quality planning support for the Initial Study/Mitigated Negative Declaration as well as review for the Planning Study. The project assessed conversion of a flood control basin for stormwater treatment via

bioretention prior to discharge to Guadalupe River and included alternatives for public amenities to provide community benefits.

City of Los Angeles Sanitation and Environment, CA – Rancho Park Feasibility Analysis & Recommendations to the City. As Project Planner, assisted with identification of multiple benefit opportunities and partnerships, and supported an assessment of various alternatives for stormwater capture and recycled water use at the Rancho Park site in City of Los Angeles. The project included revisiting the project concept originally developed as part of the Ballona Creek Enhanced Watershed Management Program and the City's One Water program and assessing the feasibility of various alternatives to increase project benefits and reduce costs.

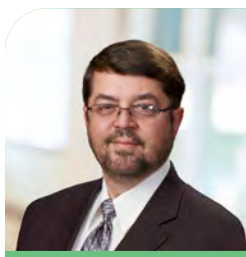
Los Angeles County Department of Public Works, CA – Los Angeles Basin Stormwater Conservation Study. As Project Planner, assisted with projecting water supplies and demands in each of the seven watersheds within the Los Angeles Basin through 2095. The project included preparation of the water supply and water demand projections portion of the Los Angeles Basin Stormwater Conservation Study and an assessment of the potential for additional stormwater capture facilities in the Greater Los Angeles County area.

Riverside County Flood Control and Water Conservation District, CA – Upper Santa Margarita River Watershed Stormwater Resource Plan (SWRP). Deputy Project Manager for the development of a functionally equivalent SWRP for the Upper Santa Margarita River Watershed. The project involved review of the watershed's Water Quality Improvement Plan and Integrated Regional Water Management Plan to identify key SWRP functionally equivalent elements. Work included summary of planning elements related to watershed water quality priorities, water quality compliance data, collaboration and outreach, project identification and program implementation, as well as conducting a multiple benefit quantification and prioritization for stormwater projects in the watershed.

Yuba Water Agency, CA – Yuba County Stormwater Resource Plan (SWRP) Funding Strategy. Project Manager for development of a SWRP funding strategy for the lower Yuba County region. Work included summarizing stormwater funding opportunities, identifying stormwater resource planning benefits, and outlining next steps to facilitate development of a SWRP for the lower Yuba County region.

Reza Namvar, PHD, PE

Groundwater



Education

- Doctorate, Civil/Environmental Engineering, Colorado State University
- Masters, Civil/Environmental Engineering, Louisiana Tech University
- Bachelors, Agricultural and Biological Engineering, Louisiana Tech University

Registrations

- Professional Engineer - CA, 71041
- Professional Engineer - CO, 0034672

Professional Profile

Reza specializes in environmental and water resources planning, management, and engineering. He has coordinated a wide range of environmental, hydrologic, and hydrogeologic investigations for irrigation, groundwater management, conjunctive use, and other water supply plans. Reza is an expert in the development and application of integrated hydrological flow and contaminant transport models. He is experienced in groundwater and hydrological analysis for environmental impact reports/studies. Reza has extensive experience in developing and application of models in various groundwater basins across California. Reza updated EMWD's MODFLOW-based regional San Jacinto groundwater model to support analysis and implementation of water resources management projects within EMWD's water service area. Through this work, Reza has gained an understanding of Soboba Tribe, including where they extract their groundwater, their water rights, and how EMWD's groundwater model is being used for project evaluation.

Related Experience

Eastern Municipal Water District, CA – San Jacinto Groundwater Model. Project Manager for development and subsequent update of EMWD's existing MODFLOW-based regional groundwater model to support analysis and implementation of water resources management projects within the EWMD water service area. The model consists of a 300 square-mile San Jacinto Groundwater Basin and covers nine groundwater management zones (GMZs). Services included research and data mining, data analysis and management, conceptual geology, agricultural and urban land use assessment, conceptual model development, groundwater-surface interaction, calibration of regional groundwater model, and documentation. The model is being used for evaluation of groundwater management activities and projects.

Eastern Municipal Water District, CA – San Jacinto Groundwater Model Development. Project Manager for development and calibration of the San Jacinto groundwater flow and transport model. As part of this project, Reza reviewed and analyzed several applied water components including river recharge, outdoor water use and irrigation. He was responsible for integration of March Air Reserve Base groundwater model into the San Jacinto groundwater model. Reza wrote the project report and several technical memoranda of this study. GMS, MODFLOW, MT3D models and GIS were used in this project. This model is a quantitative tool to aid in making decisions concerning water supply investments as well as evaluation of water resources management alternatives.

Eastern Municipal Water District, CA – Groundwater Feasibility Study. Project Manager of groundwater modeling activities for a groundwater feasibility study in the Perris North Groundwater Management Area of the San Jacinto Groundwater Basin. Four model scenarios were simulated to evaluate the effect of addition of new EMWD wells at various locations in the project area on nearby groundwater levels and flow directions.

Western Municipal Water District, CA – Groundwater Feasibility Study. As Project Manager, conducted a groundwater modeling study for a groundwater feasibility study in Moreno Valley area of the San Jacinto Groundwater Basin. The existing San Jacinto Groundwater Model was used to simulate the impact of adding new WMWD wells in the project area and evaluating the impact on nearby groundwater levels and flow directions and on movement of low-quality groundwater.

Eastern Municipal Water District, CA – Impact of Nitrate on Local Groundwater System. Project Manager of investigation of the impact of nitrate releases from treated wastewater storage ponds and irrigated lands on local aquifer system. EMWD either sells the treated wastewater directly to the users or stores it in several storage ponds that will be recharged into the local groundwater. Nitrate migration from various sources was simulated using

MODFLOW and MT3D models. The model was calibrated for a 16-year modeling period and impact of future management scenarios were simulated for a 25-year period.

Eastern Municipal Water District, CA – Impact of High TDS Groundwater Migration into Pumping Centers.

Project Manager for investigation of the impact of migration of high total dissolved solids (TDS) groundwater migration into municipal pumping wells. Naturally occurring high TDS groundwater has been migrating toward the pumping centers as a result of gradient change by excessive pumping. Factors impacting TDS migration and several mitigation scenarios were investigated for this project. Mitigation scenarios included installation of several pumping wells in the high TDS zones to reverse the groundwater gradient and prevent brackish water migration toward the municipal wells.

Hemet-San Jacinto Watermaster, CA – Enhanced Groundwater Monitoring Program.

Project Manager for development of an Enhanced Groundwater Monitoring Program (EGMP) to assist the Hemet-San Jacinto Watermaster to monitor groundwater conditions in the basin more effectively. The monitoring program contained the four major elements of groundwater level monitoring, groundwater quality monitoring, groundwater extraction monitoring and inactive well capping and sealing. A Groundwater Storage Change Calculator (GSCC) tool was developed as part of this project for estimation of annual groundwater storage change based on measured water level data.

Riverside Public Utilities and Western Municipal Water District, CA – Riverside-Arlington Groundwater Model Development.

Project Manager for development of a regional groundwater model, using MODFLOW and Groundwater Vistas, for the Riverside and Arlington Basins in southern California. The model was used to estimate the operation yield of the basins and support development of groundwater management plans (GWMPs).

Regional Water Authority (RWA), CA – Climate Change Impact on Water Resources in the American River Basin.

As Project Manager, evaluated the impacts of climate change on water resources in the American River Basin (ARB) Region through modeling and data gathering and analysis. The future reliability of the groundwater and surface water systems in the region under climate change conditions was evaluated using the hydrologic, surface water delivery, and climate change models of the area. Information from several models including the Sacramento Area Integrated Water Resources Model (SaciWRM), CalSIM and climate change models were combined to assess the effects of global climate change on the ARB Region's surface water and groundwater resources.

Eastern Municipal Water District, CA – Impact of Groundwater Extraction and Recharge Operations.

Project Manager for investigation of the impact of future groundwater extraction and recharge operations at East Valley of San Jacinto Groundwater Basin (SJGB). Excessive pumping has resulted in groundwater levels to decline rapidly at the Canyon and Upper Pressure Subbasins in the East Valley of SJGB. Groundwater recharge operations at several recharge sites such as gravel pits and the riverbed were simulated by the SJGB groundwater model to determine the groundwater storage capacities underneath the recharge sites.

California Department of Water Resources, CA – Lake Perris Seepage Recovery – Groundwater Modeling Project.

Project Manager working with DWR to evaluate the impact of recovery of Lake Perris seepage on groundwater. As part of this project, EWMD's existing groundwater model is updated to improve the representation of the aquifer in the project area and the aquifer conditions at the Lake Perris area. A refined local model is being developed based on the improved regional groundwater to optimize the design of the new recovery system. The improved regional model and the local model will be used for analysis of the seepage recovery project on the aquifer and groundwater conditions.

California Department of Water Resources, CA – Groundwater Impact Analysis for Monterey Plus Revised EIR.

As Lead Modeler, evaluated the impact of Kern Water Bank (KWB) operations on groundwater as part of the CEQA work for the Monterey Plus Revised EIR. The technical analysis included review of several existing groundwater models that cover the KWB area, including C2VSim, CVHM, and two MODFLOW models supported by local agencies. The selected model was updated for the project conditions and used for simulation of the past and future KWB operations and its impact on local aquifers. Technical documents and sections of the Revised EIR document were prepared.

Eastern Municipal Water District, CA – Impact of Brackish Water Production Wells.

Project Manager for investigation of the impact of brackish water production wells in western San Jacinto Groundwater Basin. Large volumes of brackish groundwater are available in the Perris South Subbasin of the SJGB. Declining groundwater levels at Lakeview Subbasin has resulted in movement of brackish groundwater toward the municipal water wells. EMWD is interested in pumping the brackish water to lower the groundwater levels and reduce the gradient towards the Municipal water wells in Lakeview. The extracted brackish water will be treated in several desalter plants and used in EMWD's water supply system. Various arrangements of brackish groundwater wells locations and flow rates and their impact on movement of brackish groundwater to neighboring subbasins were investigated.

Haley Johnson

Environmental



Education

- Bachelors, Environmental Science, University of California-Berkeley

Professional Association

- Association of Environmental Professionals, Member

Technical Expertise

- Air Quality and Climate Change analysis for CEQA/NEPA
- Noise analysis for CEQA/NEPA
- ArcGIS Desktop 10.4

Specialized Training

- AEP Advanced CEQA Workshop 2015, 2016, 2017, 2018, 2019
- CEQA – A Step by Step Approach, UC Davis Extension, 2015
- NEPA, UC Davis Extension, 2015
- AEP NEPA Essentials Workshop, 2018
- Project Planning for Permit Integration, UC Davis Extension, 2018

Professional Profile

Haley has 14 years of experience in environmental analysis, planning, and compliance. She possesses expertise in CEQA, NEPA, air quality and greenhouse gas analysis, noise analysis, benefit/cost analysis, and funding applications and administration. Her CEQA experience includes initial study (IS) checklists, environmental impact reports (EIRs), mitigated negative declarations (MNDs), addendums, CEQA-plus documentation, and notices of exemption (NOE). Through her environmental work with EMWD, Haley has coordinated with the Soboba Tribe as the monitoring tribe on various projects.

Related Experience

Napa Sanitation District, CA – Climate Change Mitigation Plan. Greenhouse Gas Technical Analyst. Haley supported the development of a Climate Change Mitigation Plan for NapaSan by quantifying the potential impact of implementing realistic GHG reduction measures. Haley evaluated the potential GHG savings from measures related to energy efficiency actions at NapaSan’s wastewater treatment plant and adopting an aggressive timeline for converting to an efficient fleet. The Climate Change Mitigation Plan includes an interactive Excel workbook that NapaSan can modify in the future. Haley also assisted with progress update presentations to the Board and writing a brief Climate Change Mitigation Plan summary memorandum.

Eastern Municipal Water District, CA – Perris North Groundwater Program Environmental Compliance Monitoring During Construction. Project Manager. Haley is overseeing a team of subconsultants to implement environmental mitigation measures during construction of the Perris North Groundwater Program. Beginning in 2021 with construction of wells 206, 207, and 208, Haley has managed a team of biologists, archaeologists, and paleontologists to ensure the Perris North Groundwater Program is implemented in compliance with the applicable EMWD mitigation monitoring and reporting program (MMRP). Haley has ensured completion of the cultural resources monitoring plan, cultural resources monitoring, pre-construction nesting bird surveys, pre-construction worker awareness training, as well as appropriate coordination with the monitoring tribe (Soboba). Actual MMRP compliance for the construction of wells 206, 207, and 208 required less than half of the maximum estimated cost. Haley regularly coordinates with EMWD staff, on-site construction contractors, and monitoring staff to ensure schedules are met and compliance is done in a cost-effective manner. As project manager, Haley prepares monthly progress reports and ensures invoices are submitted monthly, conforming to EMWD requirements. In 2023, Haley oversaw MMRP compliance for the Phase II raw water conveyance pipeline and the well equipping phase of Wells 206, 207, 208, 209, 65, and 66. In 2024, Haley will continue with overseeing MMRP compliance for the Phase III raw water conveyance pipeline. The Perris North Groundwater Program is a long-term project to improve groundwater quality in the Perris North Groundwater Basin, located in the area of Moreno Valley, CA. The program addresses groundwater contamination and provides a reliable water supply for EMWD customers.

Eastern Municipal Water District, CA – Perris Boulevard Transmission Main Environmental Compliance Monitoring During Construction. Project Manager. Haley is overseeing a team of biologists,

archaeologists, and paleontologists to ensure the Perris Boulevard Transmission Main project is implemented in compliance with EMWD's mitigation monitoring and reporting program (MMRP). Haley has ensured completion of the cultural resources monitoring plan, cultural resources monitoring, pre-construction nesting bird surveys, paleontological resources monitoring, pre-construction worker awareness training, as well as appropriate coordination with the monitoring tribe (Soboba).. Haley regularly coordinates with EMWD staff, on-site construction contractors, and monitoring staff to ensure schedules are met and compliance is done in a cost-effective manner. As project manager, Haley prepares monthly progress reports and ensures invoices are submitted monthly, conforming to EMWD requirements. The Perris Boulevard Transmission Main involves construction and operation of approximately 6,700 linear feet of 18-inch diameter steel or PVC potable water transmission pipeline with interconnections and appurtenances within Perris Boulevard, from the intersection with Robin Lane in the south to the Casey Court Tank Access Road, about 550 feet south of the intersection with Heacock Street, in the north. The Project would connect to existing 18-inch pipelines at Robin Lane and Casey Court Storage Tank access road along with interconnections to the distribution system along the route. The Project would improve operational efficiency of EMWD's potable water distribution system between existing Casey Court Storage Tank and North Country Tank in the north and the future Judson Tank in the south by balancing tank levels through increased transmission main capacity. Another purpose of the Project is to improve operational redundancy in EMWD's potable water system, specifically the Moreno Valley 2060 Pressure zone.

City of Sacramento, CA – Groundwater Master Plan Initial Study and Program Environmental Impact Report. Air Quality, Climate Change and Noise Technical Analyst. Haley evaluated air quality and greenhouse gas impacts using the CalEEMod air emission model and completed the Air Quality, Greenhouse Gas, Energy, and Noise sections of the Initial Study and Program EIR, which included a considerable amount of research on local GHG policies. Haley also conducted out-of-model estimates of methane GHG emissions from the proposed wells. Emissions under several operational scenarios were considered, given the uncertainty in future hydrology and its potential effect on well operations. The Groundwater Master Plan encompasses the replacement of up to 38 active and inactive wells that were found to be at the end of their useful life.

East Bay Municipal Utilities District, CA – Walnut Creek Water Treatment Plant Pretreatment Project. Environmental Analyst/ Air Quality and Greenhouse Gas Technical Analyst. Haley analyzed the air quality, greenhouse gas, and energy

impacts for the project Environmental Impact Report for the Walnut Creek Water Treatment Plant Pretreatment Project. Haley used the latest version of the California Emissions Estimator Model (CalEEMod) to quantify emissions. She worked with a team of meteorologists to calculate the health risks, then incorporated the results into the EIR air quality chapter. Haley wrote the EIR chapters on greenhouse gas, energy, and air quality, relying on the latest guidance and thresholds from the Bay Area Air Quality Management District. The project would add pretreatment facilities to the Walnut Creek Water Treatment Plant that would allow EBMUD to more reliably treat a broader range of lower quality untreated water resulting from high rainfall runoff, wildfires, algae blooms, climate change and emerging contaminants, and improve the ability to treat supplemental supplies during future droughts. The Project would also improve treated water quality, taste and odor, increase the Walnut Creek WTP capacity to meet future demands, and improve water system reliability and operational flexibility.

Eastern Municipal Water District, CA – CEQA Adjunct Staff. 2019. Served as temporary CEQA adjunct staff to assist with CEQA compliance for numerous water, wastewater, and recycled water treatment, storage, and conveyance projects throughout the 555-mile EMWD service area in western Riverside County, CA. Work included attending EMWD project meetings to discuss environmental compliance strategies; reviewing consultant deliverables including IS/MNDs and Addendums; and preparing categorical exemptions. Major projects included San Jacinto Raw Water Conveyance Facilities IS/MND, Goetz Road Tank and Transmission EIR; and Eucalyptus Booster Station Addendum.

Coachella Valley Water District, CA – Airport Boulevard Sewer Consolidation Project Clean Water State Revolving Fund Application. Project Manager. 2021-2023. Coordinated the writing and completion of the engineering technical report by an internal engineering team. Prepared the General Package. Oversaw the work of a water resources planner to draft the Technical, Financial, and Environmental Packages. Coachella Valley Water District is seeking grant funding from the California Clean Water State Revolving Fund small community wastewater funding program for approximately 17,450 linear feet of new sewer mains and sewer laterals, and a new sewer lift station to connect 13 small systems currently reliant on septic to CVWD sanitary sewer system. As project manager, Haley managed monthly invoicing and progress reports, tracked the project budget, facilitated bi-weekly check-in calls with Coachella Valley Water District, and checked in with the State Water Resources Control Board project managers. Haley responded to comments throughout the SWRCB review period to support in securing the \$14M construction grant.

Clayton Marcotte, TN-QHP

Ecosystems



Education

- Bachelors, Environmental Science and Management, Clemson University

Registrations/Certifications

- Qualified Hydrologic Professional - TN, 1208
- Erosion Prevention & Sediment Control - TN
- 10-hour Construction Safety and Health, 11-006003656
- Level IA Georgia Soil & Water Conservation Cert. Personnel - ES&PC Inspector - GA, 0000071830

Professional Associations

- Georgia Geospatial Association

Training

- Basic Wetland Delineation Training
- Wetland Plant Identification Training
- ArcGIS Desktop I, II and III Training
- Erosion and Sedimentation Control, Georgia Soil and Water Conservation Commission
- Applied Fluvial Geomorphology (Wildland Hydrology)
- River Morphology and Applications (Wildland Hydrology)

Professional Profile

Clayton is a Project Ecologist with over 15 years of experience as a private consultant in the environmental and natural resource industry. He has direct and in-depth experience with a wide range of projects and clients ranging from private infrastructure and transportation to municipal watershed and ecosystem assessments. Clayton has a strong and diverse skillset including field studies involving wetland and stream delineations, functional assessment, habitat assessment, GPS surveys, fluvial geomorphology assessment, aquatic biological and chemical sampling, and endangered species surveys. He also has significant expertise with GIS and GPS solutions, including field data collection, process and workflow automation, custom tool development, ArcGIS Online, and spatial analysis to ensure accuracy and consistency in geospatial client deliverables.

Related Experience

Calaveras River Watershed Resilience Plan, CA - Stockton East Water District. Senior Ecologist/GIS Specialist responsible for planning and integration of ecological data into the climate vulnerabilities and risk assessment. Through modeling and qualitative analysis, our team will be working with stakeholders throughout the watershed to identify and develop adaptation strategies to meet these current and future climate challenges. Our team will also be preparing performance tracking methods and indicators to support the watershed in data collection and analysis in the future.

San Diego Public Utilities, San Diego County, CA – Groundwater Dependent Ecosystem (GDE) Assessment of San Pasqual Valley Groundwater Basin. Senior GIS Specialist responsible for technical oversight and development of a consistent and repeatable work process for a Geographic Information Systems (GIS) desktop analysis of the California Department of Water Resources (DWR) Natural Communities Commonly Associated with Groundwater (NCCAG) database in conjunction with other environmental geospatial datasets for the San Pasqual Valley basin. Following the desktop study, a preliminary biological field survey was conducted on accessible lands (primarily city-owned or leased property) where the NCCAG dataset indicated potential GDEs. Field observations were made at NCCAG-mapped seeps, springs, and at other riparian habitats to document plant communities, aquatic or semi-aquatic wildlife, indicators of surface and subsurface hydrology, presence of hydric soils, and other relevant ecological and hydrological data. A preliminary assessment of state and federal protected species habitat related to GDEs was also included in the desktop and field studies for this project. A technical report was completed to document the results of the GDE study and multiple stakeholder meetings were conducted to discuss and describe the findings of the study. Additionally, a study was completed to evaluate multiple groundwater recharge strategies for their potential beneficial effect on GDEs and species within the basin.

Cuyama Basin Groundwater Sustainability Agency, Kern, Santa Barbara, San Luis Obispo, and Ventura Counties, California – Groundwater Dependent Ecosystem (GDE) Analysis and Field Study.

Senior GIS Specialist responsible for technical oversight and automation of a Geographic Information Systems (GIS) desktop analysis of the California Department of Water Resources (DWR) Natural Communities Commonly Associated

with Groundwater (NCAG) geospatial dataset for the Cuyama Basin. The preliminary GDE field validation study was conducted on publicly accessible lands (including the Los Padres National Forest) where the NCAG dataset indicated potential GDEs. Field observations were made at NCAG-mapped seeps, springs, and at other riparian habitats to document plant communities, aquatic or semi-aquatic wildlife, indicators of surface and subsurface hydrology, presence of hydric soils, and other relevant ecological and hydrological data.

Coachella Valley Water District, Imperial, Riverside, and San Diego Counties, CA – Groundwater Dependent Ecosystem (GDE) Assessment of Coachella Valley Indio Groundwater Sub-Basin. Senior GIS Specialist responsible for technical oversight of a Geographic Information Systems (GIS) desktop analysis of the California Department of Water Resources (DWR) Natural Communities Commonly Associated with Groundwater (NCCAG) database in conjunction with other environmental geospatial datasets for the Coachella Valley Indio sub-basin. Following the desktop study, a preliminary biological field survey was conducted on accessible lands to ground-truth and collect data on potential GDEs. Field observations were made at NCCAG-mapped seeps, springs, and at other riparian habitats to document plant communities, aquatic or semi-aquatic wildlife, indicators of surface and subsurface hydrology, presence of hydric soils, and other relevant ecological and hydrological data. A preliminary assessment of state and federal protected species habitat related to GDEs was also included in the desktop and field studies for this project. A technical report was completed to document the results of the GDE study and multiple stakeholder meetings were conducted to discuss and describe the findings of the study.

Cachuma Operation and Maintenance Board, Santa Barbara County, CA – Water Quality & Sediment Management Study. Ecologist and GIS Specialist responsible for detailed spatial analysis of the Lake Cachuma watershed and erosion potential in response wildfires. Technical reporting included watershed management recommendations with a goal of reducing harmful algal blooms within Lake Cachuma. Multiple watershed management stakeholders were involved through out the study including the U.S. Forest Service which manages a large portion of the forested watershed.

Southern Company Gas, Gwinnett & Dekalb Counties, Georgia – Suwanee to Stephenson AC Mitigation Project. Senior Ecologist responsible for in-depth project feasibility and permitting analysis, preliminary desktop and field assessment of jurisdictional wetlands and waterbodies, protected species habitat assessment, Federal, state & local environmental permitting, environmental construction oversight and

inspections services for the initial flagship project in a newly formed program for managing existing infrastructure integrity.

Southern Company Gas, Gwinnett & Dekalb Counties, Georgia – Buford Highway 10" Main Replacement Project. Project Manager responsible for oversight and execution of pre-construction and construction services including, preliminary desktop and field assessment of jurisdictional wetlands and waterbodies, protected species habitat assessment, erosion sedimentation and pollution control permitting, comprehensive soil management plan development, construction environmental inspection services, and environmental construction compliance oversight.

Chattanooga Gas Company, Hamilton County, Tennessee – 16-inch Distribution Replacement Pipeline Project. As the environmental task manager, Clayton manages all aspects of environmental compliance associated with the on-going construction phase of the natural gas distribution replacement pipeline project. Clayton's responsibilities include, supervision of the on-site Environmental Inspector, frequent coordination between CGC Construction Operations, SCG Environmental, the construction contractor and other parties critical to project environmental compliance and success. Clayton makes routine site visits to ensure that BMP's are installed and maintained in accordance with the SWPPP and EPSC, that environmental records are kept up to date, and to evaluate overall project compliance.

Georgia Power Company, Multiple Counties, Georgia – Statewide Ecological Services Contract. Senior Ecologist responsible for technical task management and execution of ecological studies of existing and new utility line corridors, transmission line easements, bulk properties for substation sites and potential new generation, economic development, and other sites. Services include field delineation of jurisdictional waters and wetlands, threatened and endangered species assessments, Global Positioning System (GPS) survey and field location of environmental resources, Geographic Information Systems (GIS) mapping and management of environmental resource data, preparation of technical reports, and agency coordination and environmental permitting as needed.

Southern Natural Gas, Columbus, GA – South Main Loop Project. In this role as GSWCC Level 1A bi-weekly Erosion, Sedimentation and Pollution Control (ESPC) Inspector, Clayton provided ESPC Best Management Practice (BMP) inspection, report writing, client correspondence, conveyance of BMP deficiencies and solutions to on-site personnel, turbidity sampling, knowledge of applicable local, state and federal regulations.

Appendix 2

References



Proposal for the Development of a Climate Adaptation and Resilience Plan (CARP) for the Santa Ana River Watershed

Appendix 2 | References

We have included client references based on our experience working with these clients on similar scope/services within the last five years. The work we performed for these clients are highlighted in more detail in Section 3 – Firm Experience.

Coachella Valley Water District (Various Projects)

Client Reference: Zoe Rodriguez del Rey, Water Resources Manager, 760.398.2651, zrodriguezdelrey@cvwd.com; 75515 East Hovley Lane, Palm Desert, CA 92211

California Department of Water Resources (Watershed Hub)

Client Reference: Lewis Moeller, Supervising Water Resources Engineer, 916.651.9251, lewis.moeller@water.ca.gov; 901 P Street, Sacramento, CA 95814

Los Angeles County Public Works (Los Angeles County Water Plan and Dashboard)

Client Reference: Matt Frary, Assistant Deputy Director, 626.458.4300, mfrary@dpw.lacounty.gov; 900 S. Fremont Avenue, Alhambra, CA 91803

Eastern Municipal Water District (Various Projects)

Client Reference: Lanaya Voelz Alexander, Assistant General Manager – Planning, Engineering and Construction, 951.928.3777 x4561, alexandl@emwd.org; 2270 Trumble Road, Perris, CA 92570

Riverside County Flood Control & Water Conservation District (Santa Ana River Watershed Stormwater Resource Plan)

Client Reference: Amy McNeil, Engineering Project Manager, 951.955.1214, ammcneil@rivco.org; 1995 Market Street, Riverside, CA 92501

Stockton East Water District (Calaveras River Watershed Resilience Plan)

Client Reference: Gianna O'Day, Associate Engineer, 209.639.5097, goday@sewd.net; 6767 E. Main Street, Stockton, CA 95215

SAWPA (Program Management for the Santa Ana River Conservation and Conjunctive Use Program)

Client Reference: Ian Achimore, Senior Watershed Manager, 951.354.4233, iachimore@sawpa.org; 11615 Sterling Avenue, Riverside, CA 92503

Appendix 3

Miscellaneous/Exceptions



Proposal for the Development of a Climate Adaptation and Resilience Plan (CARP) for the Santa Ana River Watershed

Appendix 3 | **Miscellaneous/Exceptions**

Woodard & Curran, Inc. (“Woodard & Curran”) has reviewed the sample agreement for SAWPA’s General Services Agreement Template (Appendix B), and Task Order Template (Appendix C) included with the Request for Proposal. Woodard & Curran looks forward to finalizing contract terms with SAWPA if selected for the Project that are consistent with industry standards for the provision of professional services, including reasonable indemnity, limitations of liability, and insurance.

Appendix 4

Conflict of Interest



Proposal for the Development of a Climate Adaptation and Resilience Plan (CARP) for the Santa Ana River Watershed

Appendix 4 | **Conflict of Interest**

Woodard & Curran has completed a thorough conflicts of interest investigation and has determined that we do not have any conflicts of interest. Woodard & Curran has not performed and has not been engaged in any consulting work that is actually or potentially adverse to SAWPA or this project.

Appendix 5

Other Information



Proposal for the Development of a Climate Adaptation and Resilience Plan (CARP) for the Santa Ana River Watershed

Appendix 5 | Other Information

Scope of Work

Task 1: Project Administration

Subtask 1.1: Kick-off Meeting

Woodard & Curran will host an in-person kick-off meeting with the project team to discuss overall project goals, partner responsibilities, consultant activities, and schedule.

Subtask 1.1 Deliverables:

- Project kickoff meeting minutes with action items

Subtask 1.2: Work Plan

Woodard & Curran will work with SAWPA to develop a work plan that outlines steps in both engagement and CARP development including key activities, partner roles and responsibilities, milestones, deliverables, and timelines.

Subtask 1.2 Deliverables:

- Draft and Final Work Plan

Subtask 1.3: Project Coordination

Woodard & Curran will perform project management and coordination activities. Woodard & Curran will hold biweekly virtual progress meetings with SAWPA and co-applicants throughout the project (assumes 30-minute check-in meetings) to provide updates on progress and work completed. Woodard & Curran will complete monthly progress reports and invoicing activities associated with managing the plan. Woodard & Curran will also provide status updates to SAWPA's Commission, upon SAWPA's request, assuming up to six updates over the course of the project.

Subtask 1.3 Deliverables:

- Biweekly progress meeting minutes (52)
- Monthly progress reports (25)
- Slides for SAWPA's Commission status updates (up to 6)

Subtask 1.4: OPR Support

Woodard & Curran will provide support to SAWPA in presenting updates to ORP in the form of presentation preparation and as needed meeting attendance for up to four virtual peer-to-peer sessions.

Subtask 1.4 Deliverables:

- Meeting materials or presentation slides for up to four OPR presentations (4)

Task 2: Reference Material Review

Subtask 2.1: Annotated Summary

Woodard & Curran will develop an annotated summary document that includes a tabulation of initial list of climate risks and vulnerabilities and visualizations including two-dimensional likelihood-severity matrices with potential adaptation approaches highlighted as initial risk management pathways. The focus of the annotated summary visualizations will be on public engagement and communication of hazards, risks, and sensitivity factors.

Subtask 2.1 Deliverables:

- Annotated summary of climate risks and vulnerabilities, initial adaptation projects, and sensitivity factors

Task 3: Public Agency Engagement Preparation

Subtask 3.1: Public Agency Engagement Plan Preparation

Woodard & Curran will work collaboratively with SAWPA to develop a Public Agency Engagement Plan that includes a list of potential participants/stakeholders by sector, engagement organized around the Adaptation Planning Process Model, and multiple engagement strategies such as workshops, online surveys, and alternative forms of engagement. The plan will identify opportunities for SAWPA member agencies and other stakeholders to review risks, vulnerabilities, strategies, and review the draft CARP.

Subtask 3.1 Deliverables:

- Draft Public Agency Engagement Plan
- Final Public Agency Engagement Plan

Subtask 3.2: Engagement Materials

In this task, Woodard & Curran will develop engagement materials based on the recommendations that are developed in the Public Agency Engagement Plan. The materials will solicit participation in meetings and workshops and be used during engagement activities. This task also includes up to three online surveys for stakeholders.

Subtask 3.2 Deliverables:

- Agendas and materials for workshops (up to 5)
- Online Survey components

Subtask 3.3: Support for TAC

Woodard & Curran will provide updates, as needed for the Technical Advisory Committee (TAC) in the form of one update slide per meeting, up to 8 meetings.

Subtask 3.3 Deliverables:

- Presentation slide for up to 8 TAC meetings

Task 4: Implement Public Agency Engagement Plan

Subtask 4.1: Implement Workshops

Woodard & Curran will conduct 3 in-person and 2 virtual workshops on risks and vulnerabilities, adaptation strategies, and CARP components review. Workshop materials from Task 3.2 will be used to facilitate the workshops. Workshop activities will be summarized in technical memorandums (TMs).

Subtask 4.1 Deliverables:

→ Workshop summaries TMs (5)

Subtask 4.2: Implement Surveys

Woodard & Curran will conduct up to three online surveys (developed in Subtask 3.2) to supplement information from workshops. This task includes distribution of surveys and analysis of survey results.

Subtask 4.2 Deliverables:

→ Summary of survey results TM

Subtask 4.3: Document Outcomes

Woodard & Curran will compile and organize outcomes from workshops and the survey into a document that catalogues input on climate risks, vulnerabilities, and adaptation strategies by member agency service areas and as a region.

Subtask 4.3 Deliverables:

→ Engagement Outcomes Summary TM

Subtask 4.4: Characterize Risks and Develop Vulnerability Assessment

Woodard & Curran will identify climate risks for the watershed and develop a Vulnerability Assessment to those risks based on stakeholder engagement and findings from the review of planning documents in Task 2. Climate vulnerabilities will be related to water use and users across the domestic, agricultural, and environmental sectors and will consider how essential services are impacted during extreme climate events. The assessment will highlight the impact on identified watershed assets from cascading hazards initiated by climate shifts (e.g., atmospheric river climatological shifts leading to erosion/sedimentation impacting water quality, water supply, and ecosystem health; precipitation pattern shifts affecting groundwater recharge rates and variability of groundwater levels/availability; climatic habitat suitability changes disrupting forest and riparian ecosystems). We will identify linkages between community and watershed vulnerabilities, such as developing a climate vulnerability problem statement matrix. This will result in two TMs including datasets and reference material leveraged, risk matrices, and potential hazard cascade visualizations which can be transitioned into sections of the CARP. The first TM will summarize climate risks. The second TM will be a vulnerability assessment.

Subtask 4.4 Deliverables:

- Draft Summary of Climate Risks TM
- Final Summary of Climate Risks TM
- Draft Vulnerability Assessment TM
- Final Vulnerability Assessment TM

Subtask 4.5: Develop and Evaluate Adaptation Strategies

Based on stakeholder engagement and the review of planning documents, Woodard & Curran will develop integrated climate adaptation strategies/solutions, including projects and/or groups of projects (e.g., regional projects), that address vulnerabilities. The range of adaptation strategies/solutions will include, but are not limited to:

- Stormwater management (green infrastructure, capture and use)
- Groundwater recharge
- Water use efficiency
- Nature-based solutions
- Urban solutions (urban forestry)
- Multi-benefit approaches
- Regional solutions

Woodard & Curran will develop a TM including a discussion of standard risk management strategies, a categorization of adaptation approaches, and highlights of project effects on direct and cascading vulnerabilities which can be transitioned into a section of the CARP.

Woodard & Curran will conduct an analysis of the solutions to characterize the strategies and projects at a high level, including the following:

- Develop descriptions of the strategies/solutions and the projects.
- Develop criteria to conduct a high-level characterization of adaptation strategies in terms of:
 - » Climate risks and vulnerabilities addressed
 - » Potential constraints and benefits (and beneficiaries)
 - » Potential sponsors and stakeholders
 - » Potential locations
 - » Feasibility
 - » Environmental, health, social, and economic factors
 - » Others, as needed

We will prepare a TM of potential high-level short and long-term implementation actions and sequencing of efforts as well as map the distribution of adaptation options with climate risks and vulnerability spatial data. The TM will include annotated callouts where feasible to describe cascading climate shift-initiated hazards impacting vulnerabilities.

Subtask 4.5 Deliverables:

- Draft High-Level Criteria TM
- Final High-Level Criteria TM
- Draft Summary of Adaptation Strategies TM
- Final Summary of Adaptation Strategies TM

Subtask 4.6: Develop Resilience Portfolios

Woodard & Curran will use the results of the adaptation strategies criteria and evaluation process to inform the development of resilience portfolios that include:

- A range of portfolios that are organized around potential approaches, including multi-benefit solutions, nature-based solutions, watershed resilience solutions, water supply reliability, and habitat management

- Characterization of the distribution of resilience benefits across the watershed with a map of potential distribution of resilience benefits across the watershed
- Key linkages and the general scale of potential value for different communities (i.e., conservation/restoration investments in the upper watershed providing downstream water quantity and quality benefits to downstream water customers or urban forestry providing local benefits reducing the heat island affect while increasing groundwater recharge, which could support groundwater sustainability).

The portfolios will be described in a TM.

Subtask 4.6 Deliverables:

- Draft Resilience Portfolios TM
- Final Resilience Portfolios TM

Task 5: Watershed Resiliency Metrics/Indicators

Subtask 5.1: Develop Metrics/Indicators

Based on adaptation strategies and resiliency portfolios, Woodard & Curran will develop a set of proposed metrics and/or indicators to measure watershed resiliency that can be assessed in the future.

The set of indicators can be used to evaluate watershed health and functionality as resiliency projects are implemented and will include performance metrics and a measurement framework.

Subtask 5.1 Deliverables:

- Draft Proposed Indicators and/or Metrics TM
- Final Proposed Indicators and/or Metrics TM

Task 6: Community and Tribal Engagement

Subtask 6.1: Support Engagement Process

Woodard & Curran will provide advisory support (up to 20 hours) on the Community Engagement process, being led by ISC3, and to the Tribal Engagement process, being led by Soboba, such as assisting with materials and reviewing potential online surveys.

Subtask 6.1 Deliverables:

- Review of summaries and written materials as needed (Up to 20 hours)

Subtask 6.2: Support for CAP

Woodard & Curran will provide up to two slides per Watershed Resilience Community Advisory Panel (CAP) session that provide updates on CARP efforts. We will support up to 8 sessions with the CAP that will provide guidance and support for the planning process.

Subtask 6.2 Deliverables:

- Up to two update slides for CAP Sessions (8)

Subtask 6.3: Synthesize Community and Tribal Engagement Outcomes

Woodard & Curran will synthesize and summarize the feedback from the Community and Tribal Engagement efforts with the Public Engagement outcomes in a Community and Stakeholder Framework consisting of four or five metrics/descriptors to summarize community and stakeholder input on the

multi-benefit criteria and demonstrate that actions address community priorities and needs. Woodard & Curran will also incorporate findings from Task 6 into materials described in Task 4.

Subtask 6.3 Deliverables:

- Revision of Task 4 materials to incorporate findings
- Community and Stakeholder Framework

Task 7: Digital Presence for CARP

Subtask 7.1 Online Platform

Woodard & Curran will design and establish an online platform to serve as tool to document the results for future implementation. SAWPA will host the online platform and will continue to maintain and operate it after the project term. This platform does not include interactive features which are included in Optional Task A

Subtask 7.1 Deliverables:

- Draft web-based digital platform
- Final web-based digital platform

Subtask 7.2 Online Content

Woodard & Curran will develop the information for the online platform including geographic representations of data and information. Online content includes text, photos, infographics, and maps.

Subtask 7.2 Deliverables:

- Draft materials for online platform
- Final materials for online platform

Task 8: CARP Development

Subtask 8.1 CARP Document

Woodard & Curran will use the existing work from Tasks 1-7, specifically TMs, to develop the CARP document. The CARP will describe the outcomes of the engagement efforts and summarize the adaptations strategies and projects in the resilience portfolios. Additionally, the CARP will include:

- Infographics, graphics, maps and other visuals
- Inventory and annotation of relevant plans and existing resilience and sustainability initiatives
- Implementation strategies for the CARP, including timeline, next steps, potential funding sources, and the responsible parties
- Description of the planning process for the development of the CARP
- Description of climate adaptation goals and explanation of why planning for climate adaptation is necessary
- Review of climate vulnerabilities to determine the priority of the implementation strategies
- Description of the watershed resilience goals and visions (i.e., a Goal and Vision Statement) for addressing climate adaptation for the Santa Ana River Watershed
- Proposed performance indicators
- Implementation Plan, which is the strategy for the proposed solutions, including regional approaches
- Appendices to document the information matrices, technical memos, and other written deliverables associated with the scope of work.

Woodard & Curran will produce one (1) draft of the CARP and present it in workshops as described in this Scope of Work. Comments received during those workshops will result in one (1) revision of the CARP to create a final CARP.

Subtask 8.1 Deliverables:

- Draft CARP
- Final CARP

Subtask 8.2: Funding Strategy

Woodard & Curran will develop a funding strategy and application support materials. The strategy will be based on research of known and expected grant and loan programs and will identify funding options with an emphasis on opportunities for programmatic and collaborative approaches for the different adaptation strategies and resilience portfolios.

Subtask 8.2 Deliverables:

- Draft Funding Strategy TM
- Final Funding Strategy TM

Subtask 8.3: CARP Review Workshop

Woodard & Curran will present and the CARP during one in-person workshop to SAWPA Member Agencies and other stakeholders.

Subtask 8.3 Deliverables:

- Meeting materials for Review Workshop

Subtask 8.4: SAWPA Commission and OWOW Review and Adoption

Woodard & Curran will support SAWPA staff in presenting the CARP for review at a SAWPA Commission Workshop and/or a OWOW Steering Committee Workshop.

Subtask 8.4 Deliverables:

- Meeting materials for presentation of the plan
- Adoption meeting materials

OPTIONAL TASKS

Option Task A: Enhanced Online Tool

Woodard & Curran will enhance the digital presence included in Task 5 by incorporating additional features including:

- A geospatial database for real-time access for watershed stakeholders to track existing adaptation projects and ability to add new projects to the database
- Interactive functions for online platform (such as climate scenarios applied to climate risks and vulnerabilities)
- Enhanced content
- Operating procedures on how to update and maintain the online tool/dashboard

Optional Task A Deliverables:

- Geospatial database
- Enhanced online content
- Interactive elements for community and stakeholder users incorporated into online platform

Optional Task B: Climate Change Factors

Woodard & Curran will develop functionality within the Online Tool to evaluate climate change factors. An approach akin to the Federal Emergency Management Agency (FEMA) National Risk Index estimate will be leveraged and customized for the project area (e.g., Risk = Hazard x Vulnerability / Resilience). A heat map of annualized scores of identified hazards will be modified by the social vulnerability and expected resilience within each community. Latest available gridded downscaled climate model projection data will be accessed and processed and relevant climate change risk score indices will be calculated including for climate factors such as (and informed by climate risk assessment tasks):

- Fire weather trends
- Seasonal mountain precipitation variance
- Urban flooding potential
- Temperature extreme potential
- Coastal impacts

Multiple future timeframes and climate model scenarios will be used to establish geospatial heat maps of identified hazards and to highlight climate factors and trends. Additional functionality and interactivity will be included to give users potential to:

- Evaluate adaptation project effect on future risk projections through a visual decrease in risk score index when a highlighted project is selected (e.g., risk score decreases as resilience score increases through the user's selection of a listed project to implement)
- Understand potential cascading effects on indirect hazards to key vulnerabilities through annotated callouts where feasible
- Understand historic trends and future variance of identified hazards under multiple climate change scenarios in their area of interest through visualization tools such as before/after swipe panels, decadal window sliders, zoom and pan, and timeseries plots

Optional Task B Deliverables:

- Historical and predictive trends summary for climate change factors
- Operating procedures for updating data inputs

Optional Task C: Regional Adaptation Projects

In addition to developing regional strategies and a resilience portfolio, Woodard & Curran will identify regional adaptation projects by enhancing and refining the project information and/or developing innovative regional adaptation projects, including nature-based solutions, that would enhance climate resilience in the watershed. This Task includes developing innovative regional projects and regional approaches to project development based on the work in Task 4. We will conduct cost analysis to support decision making and funding needs. Up to two engagement workshops will refine these projects, ensuring they address public agency, community, and tribal priorities and needs. Following completion of the CARP, we will develop a roadmap which will describe the projects, costs, and project alignment with adaptation strategies.

Optional Task C Deliverables:

- Enhanced regional adaptation project list and roadmap

Optional Task D: Facilitate Decision Maker Support

Woodard & Curran will help generate support for the CARP, adaptation strategies, and projects through education efforts specifically targeted to decision makers. We will facilitate up to four meetings with decision makers to provide them information on the needs, benefits, and timeline to implement the plan. We will provide written materials that can be used in requests for support as well as in funding applications, and will assist with outreach and meeting requests and follow-up.

Optional Task D Deliverables:

→ Meeting agendas, materials, and notes for conversations with decision makers (up to 4)

PROJECT ASSUMPTIONS

1. All meetings are virtual unless otherwise stated.
2. All documents that include a draft and final will go through one (1) round of revisions.
3. SAWPA will provide access to all documents required for Task 2 planning document review.
4. All meetings are one hour unless otherwise noted.



Woodard
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Santa Ana Watershed Project Authority
Cash Transaction Report
Month of December 2024

Below is a summary of cash transactions completed during the month in the Authority's checking account with US Bank. Attached are summaries by major revenue and expense classifications.

Cash Receipts and Deposits to Account	\$	805,120.36
Net Investment Transfers		77,713.19
Cash Disbursements		<u>(2,447,332.75)</u>
Net Change for Month	\$	(1,564,499.20)
Balance at Beginning of Month		<u>2,601,943.34</u>
Balance at End of Month per General Ledger	\$	<u>1,037,444.14</u>
Collected Balance per Bank Statement	\$	<u>1,050,307.27</u>

ACCOUNTS PAYABLE RECONCILIATION

Accounts Payable Balance @ 11/30/2024	\$	6,333,319.94
Invoices Received for December 2024		388,439.77
Invoices Paid by check/wire during December 2024 (see attached register)		<u>(2,131,656.77)</u>
Accounts Payable Balance @ 12/31/2024	\$	<u>4,590,102.94</u>

CASH RECEIPTS

Brine Line Operating Revenues	\$ 767,282.03
LESJWA Admin Reimbursement	35,965.36
Other	<u>1,872.97</u>
Total Receipts and Deposits	\$ 805,120.36

INVESTMENT TRANSFERS

Transfer of Funds:	
From (to) US Bank	\$ -
From (to) LAIF	(1,000,000.00)
From (to) Legal Defense Fund	-
From (to) LESJWA	-
From (to) Investments	<u>1,077,713.19</u>
Total Investment Transfers	\$ 77,713.19

CASH DISBURSEMENTS

By Check or ACH:	
Payroll	\$ -
Operations	<u>2,131,656.77</u>
Total Checks Drawn	\$ 2,131,656.77
By Cash Transfer:	
Payroll	\$ 212,626.82
Payroll Taxes	<u>103,049.16</u>
Total Cash Transfers	\$ 315,675.98
Total Cash Disbursements	<u><u>\$ 2,447,332.75</u></u>

-

Santa Ana Watershed Project Authority
Check Detail
Dec-24

Category	Check #	Check Date	Type	Vendor	Check Amount
Accrued Volumetric Costs	EFT06451	12/12/2024	CHK	Orange County Sanitation District	\$ 696,893.35
Accrued Volumetric Costs Total					\$ 696,893.35
Audit Fees	EFT06475	12/19/2024	CHK	C.J. Brown & Company CPAs	\$ 2,036.00
Audit Fees Total					\$ 2,036.00
Auto Expense	5943	12/12/2024	CHK	County of Riverside	\$ 1,184.38
Auto Expense	EFT06458	12/12/2024	CHK	Riverside Transmission Center	\$ 3,032.45
Auto Expense Total					\$ 4,216.83
Benefits	5947	12/19/2024	CHK	Mutual Of Omaha	\$ 3,572.67
Benefits	EFT06465	12/19/2024	CHK	ACWA JPIA	\$ 56,054.87
Benefits	EFT06466	12/19/2024	CHK	Aflac	\$ 482.71
Benefits	WDL000006958	12/2/2024	WDL	WageWorks	\$ 1,300.00
Benefits	WDL000006970	12/3/2024	WDL	WageWorks	\$ 393.37
Benefits	WDL000006971	12/4/2024	WDL	WageWorks	\$ 108.26
Benefits	WDL000006972	12/5/2024	WDL	WageWorks	\$ 1,028.00
Benefits	WDL000006979	12/10/2024	WDL	WageWorks	\$ 15.86
Benefits	WDL000006982	12/11/2024	WDL	WageWorks	\$ 1,902.69
Benefits	WDL000006995	12/17/2024	WDL	WageWorks	\$ 900.00
Benefits	WDL000007000	12/18/2024	WDL	WageWorks	\$ 162.77
Benefits	WDL000007003	12/23/2024	WDL	WageWorks	\$ 311.02
Benefits	WDL000007004	12/24/2024	WDL	WageWorks	\$ 189.00
Benefits	WDL000007011	12/26/2024	WDL	WageWorks	\$ 195.00
Benefits	WDL000007012	12/27/2024	WDL	WageWorks	\$ 459.05
Benefits Total					\$ 67,075.27
Building Lease	5949	12/19/2024	CHK	Wilson Property Services, Inc	\$ 2,328.70
Building Lease	5950	12/19/2024	CHK	Wilson Property Services, Inc	\$ 2,737.92
Building Lease	5951	12/19/2024	CHK	Wilson Property Services, Inc	\$ 2,556.00
Building Lease Total					\$ 7,622.62
Cloud Storage	EFT06457	12/12/2024	CHK	VC3, Inc.	\$ 3,027.75
Cloud Storage Total					\$ 3,027.75
Consulting	EFT06442	12/5/2024	CHK	CDM Smith, Inc.	\$ 32,377.37
Consulting	EFT06443	12/5/2024	CHK	Dudek	\$ 8,625.00
Consulting	EFT06445	12/5/2024	CHK	GEI Consultants	\$ 6,975.00
Consulting	EFT06449	12/5/2024	CHK	Nevada System of Higher Education	\$ 10,387.04
Consulting	EFT06457	12/12/2024	CHK	VC3, Inc.	\$ 3,464.95
Consulting	EFT06461	12/12/2024	CHK	Water Systems Consulting	\$ 1,554.20
Consulting	EFT06462	12/12/2024	CHK	Kahn Soares & Conway	\$ 840.00
Consulting	EFT06471	12/19/2024	CHK	West Coast Advisors	\$ 9,750.00
Consulting	EFT06474	12/19/2024	CHK	CDM Smith, Inc.	\$ 29,776.15
Consulting	EFT06476	12/19/2024	CHK	Trussell Technologies, Inc.	\$ 8,135.00
Consulting	EFT06477	12/19/2024	CHK	Woodard & Curran Inc.	\$ 6,064.50
Consulting	EFT06481	12/19/2024	CHK	GEI Consultants	\$ 35,497.16
Consulting	EFT06482	12/19/2024	CHK	Water Systems Consulting	\$ 3,143.00
Consulting	EFT06483	12/19/2024	CHK	JPW Communications	\$ 3,059.51
Consulting	EFT06485	12/19/2024	CHK	Inland Empire Resource Conservation District	\$ 20,920.06
Consulting Total					\$ 180,568.94
Contributions	5938	12/5/2024	CHK	Multi-State Salinity Coalition	\$ 1,000.00
Contributions	5948	12/19/2024	CHK	UC Riverside Foundation	\$ 1,000.00
Contributions Total					\$ 2,000.00
Credit Cards	P047808	12/9/2024	WDL	US Bank	\$ 7,568.34
Credit Cards Total					\$ 7,568.34
Debt Service	5941	12/12/2024	CHK	State Water Resources Control Board	\$ 1,044,273.23
Debt Service Total					\$ 1,044,273.23
Director Costs	EFT06467	12/19/2024	CHK	Eastern Municipal Water District	\$ 570.92
Director Costs	EFT06469	12/19/2024	CHK	Western Municipal Water District	\$ 545.59
Director Costs	EFT06478	12/19/2024	CHK	Jasmin Hall	\$ 69.68
Director Costs	EFT06479	12/19/2024	CHK	Bruce Whitaker	\$ 80.40
Director Costs	EFT06480	12/19/2024	CHK	T. Milford Harrison	\$ 58.96
Director Costs Total					\$ 1,325.55
Dues	EFT06448	12/5/2024	CHK	North American Weather Modification Council	\$ 500.00
Dues	EFT06453	12/12/2024	CHK	California Special Districts	\$ 2,300.00
Dues	EFT06459	12/12/2024	CHK	California Association of Sanitation Agencies	\$ 5,575.00

Santa Ana Watershed Project Authority
Check Detail
Dec-24

Category	Check #	Check Date	Type	Vendor	Check Amount
Dues Total					\$ 8,375.00
Employee Reimbursement	EFT06446	12/5/2024	CHK	Bonnie Gallagher	\$ 150.00
Employee Reimbursement	EFT06463	12/12/2024	CHK	Natalia Gonzalez	\$ 12.12
Employee Reimbursement	EFT06484	12/19/2024	CHK	Alfredo Vasquez	\$ 239.00
Employee Reimbursement Total					\$ 401.12
Equipment Rented	EFT06436	12/5/2024	CHK	Konica Minolta - Rental	\$ 1,403.07
Equipment Rented	EFT06468	12/19/2024	CHK	Pitney Bowes Global Financial	\$ 345.60
Equipment Rented Total					\$ 1,748.67
Facility Repair & Maintenance	EFT06441	12/5/2024	CHK	Innerline Engineering	\$ 5,770.03
Facility Repair & Maintenance	EFT06444	12/5/2024	CHK	Riverside Cleaning Systems	\$ 1,700.00
Facility Repair & Maintenance	EFT06456	12/12/2024	CHK	TNT Elevator Inc	\$ 300.00
Facility Repair & Maintenance	EFT06464	12/12/2024	CHK	PE Instruments	\$ 1,250.00
Facility Repair & Maintenance	EFT06473	12/19/2024	CHK	Innerline Engineering	\$ 3,202.63
Facility Repair & Maintenance Total					\$ 12,222.66
Garnishment	5952	12/19/2024	CHK	Riverside County Sheriff	\$ 667.84
Garnishment Total					\$ 667.84
Insurance Expense	EFT06460	12/12/2024	CHK	Zenith Insurance Company	\$ 4,440.00
Insurance Expense Total					\$ 4,440.00
Lab Costs	EFT06439	12/5/2024	CHK	E. S. Babcock & Sons, Inc.	\$ 435.00
Lab Costs	EFT06455	12/12/2024	CHK	E. S. Babcock & Sons, Inc.	\$ 1,798.45
Lab Costs	EFT06472	12/19/2024	CHK	E. S. Babcock & Sons, Inc.	\$ 3,501.00
Lab Costs Total					\$ 5,734.45
Landscape Maintenance	EFT06440	12/5/2024	CHK	Green Meadows Landscape	\$ 815.00
Landscape Maintenance Total					\$ 815.00
Maintenance Labor	EFT06451	12/12/2024	CHK	Orange County Sanitation District	\$ 3,760.84
Maintenance Labor Total					\$ 3,760.84
Office Expense	5944	12/12/2024	CHK	Printing Connection, Inc.	\$ 58.73
Office Expense	EFT06438	12/5/2024	CHK	Awards & Specialties	\$ 15.23
Office Expense	* EFT06438	12/5/2024	VOID	Awards & Specialties	\$ (15.23)
Office Expense	EFT06454	12/12/2024	CHK	Awards & Specialties	\$ 15.23
Office Expense Total					\$ 73.96
Payroll	P047765	12/12/2024	WDL	MissionSquare	\$ 466.50
Payroll	P047766	12/12/2024	WDL	MissionSquare	\$ 4,681.03
Payroll	P047767	12/12/2024	WDL	Public Employees' Retirement	\$ 22,557.72
Payroll	P047768	12/12/2024	WDL	CalPERS Supplemental Income	\$ 5,377.11
Payroll	P047807	12/19/2024	WDL	Public Employees' Retirement	\$ 11,083.56
Payroll	WDL000006969	12/13/2024	WDL	Direct Deposit 12/13/2024	\$ 100,455.42
Payroll	WDL000006976	12/13/2024	WDL	PR Tax - Federal	\$ 35,660.97
Payroll	WDL000006977	12/13/2024	WDL	PR Tax - State	\$ 9,990.30
Payroll	WDL000006978	12/13/2024	WDL	PR Tax - State AZ	\$ 109.57
Payroll	WDL000007001	12/27/2024	WDL	Direct Deposit 12/27/2024	\$ 112,171.40
Payroll	WDL000007006	12/27/2024	WDL	PR Tax - Federal	\$ 45,204.64
Payroll	WDL000007007	12/27/2024	WDL	PR Tax - State	\$ 11,974.11
Payroll	WDL000007008	12/27/2024	WDL	PR Tax - State AZ	\$ 109.57
Payroll Total					\$ 359,841.90
Permit Fees	5942	12/12/2024	CHK	State Water Resources Control Board	\$ 3,945.00
Permit Fees Total					\$ 3,945.00
Safety	EFT06437	12/5/2024	CHK	Underground Service Alert	\$ 240.55
Safety	EFT06470	12/19/2024	CHK	Calolympic Safety	\$ 177.80
Safety Total					\$ 418.35
Security	5945	12/12/2024	CHK	SafeT Security	\$ 812.55
Security	EFT06450	12/5/2024	CHK	Lady Mehan Security	\$ 384.00
Security	EFT06487	12/19/2024	CHK	Lady Mehan Security	\$ 384.00
Security Total					\$ 1,580.55
Shipping/Postage	EFT06452	12/12/2024	CHK	General Logistics Systems US	\$ 14.08
Shipping/Postage Total					\$ 14.08
Software	EFT06457	12/12/2024	CHK	VC3, Inc.	\$ 1,194.85
Software	EFT06486	12/19/2024	CHK	Konica Minolta Business Solutions	\$ 21,199.68

Santa Ana Watershed Project Authority
Check Detail
Dec-24

Category	Check #	Check Date	Type	Vendor	Check Amount
Software Total					\$ 22,394.53
Subscriptions	EFT06447	12/5/2024	CHK	Verizon Connect	\$ 104.70
Subscriptions Total					\$ 104.70
Utilities	5935	12/5/2024	CHK	Riverside Public Utilities	\$ 114.61
Utilities	5936	12/5/2024	CHK	AT&T	\$ 241.26
Utilities	5937	12/5/2024	CHK	Burrtec Waste Industries, Inc	\$ 217.35
Utilities	5939	12/5/2024	CHK	Charter Communications	\$ 146.22
Utilities	5940	12/12/2024	CHK	Riverside Public Utilities	\$ 2,493.02
Utilities	5946	12/19/2024	CHK	AT&T	\$ 973.76
Utilities Total					\$ 4,186.22
Grand Total					\$ 2,447,332.75
		Accounts Payable			
	Checks	\$ 2,072,957.49			
	Wire Transfers	\$ 14,533.36			
		\$ 2,087,490.85			
	Other	\$ -			
	Payroll	\$ 359,841.90			
Total Disbursements for December 2024		\$ 2,447,332.75			

Santa Ana Watershed Project Authority
Consulting
Dec-24

Check #	Check Date	Task #	Task Description	Vendor Name	Total Contract	Check Amount	Remaining Contract Amount	Notes/Comments
EFT06442	12/5/2024	CDM377-02	PFAS Regional Analysis for Upper Santa Ana River Watershed - Phase 2	CDM Smith, Inc.	\$ 465,917.00	\$ 32,377.37	\$ 150,184.23	
EFT06474	12/19/2024	CDM377-02	PFAS Regional Analysis for Upper Santa Ana River Watershed - Phase 2	CDM Smith, Inc.	\$ 465,917.00	\$ 29,776.15	\$ 150,184.23	
EFT06443	12/5/2024	DUDK240-10	Brine Line Sewer System Management Plan Audit	Dudek	\$ 28,220.00	\$ 3,355.00	\$ 2,588.75	
EFT06443	12/5/2024	DUDK240-12	Inland Empire Brine Line Engineering Services	Dudek	\$ 15,000.00	\$ 5,270.00	\$ 5,080.00	
EFT06445	12/5/2024	GEI384-02	MSAR TMDL - Limited Basin Plan Amendment Revisions	GEI Consultants	\$ 153,530.00	\$ 6,975.00	\$ 86,658.75	
EFT06481	12/19/2024	GEI386-02	Santa Ana River Regional Bacteria Monitoring Program	GEI Consultants	\$ 1,191,054.00	\$ 35,497.16	\$ 933,743.54	
EFT06485	12/19/2024	IERCD387-01	Arundo Donax Removal in the SAR Basin Headwaters	Inland Empire Resource Conservation District	\$ 147,777.07	\$ 20,920.06	\$ 56,590.69	
EFT06483	12/19/2024	JPW392-02	Emerging Constituents Program Public Relations Consultant Support	JPW Communications	\$ 114,954.00	\$ 3,059.51	\$ 25,851.57	
EFT06462	12/12/2024	KSC384-03	MSAR Pathogen TMDL TF Regulatory Support	Kahn, Soares, & Conway	\$ 148,500.00	\$ 640.00	\$ 127,260.00	
EFT06462	12/12/2024	KSC374-03	Basin Monitoring Program TF Regulatory Support	Kahn, Soares, & Conway	\$ 133,000.00	\$ 200.00	\$ 65,129.59	
EFT06449	12/5/2024	DRI378-01	Weather Modification Pilot Validation	Board of Regents of the Nevada System of Higher Education	\$ 155,000.00	\$ 10,387.04	\$ 108,954.39	
EFT06476	12/19/2024	TRU240-27	Brine Line Billing Formula Update Study	Trussell Technologies	\$ 154,390.00	\$ 8,135.00	\$ 132,895.00	
EFT06457	12/12/2024	ACS100-26	IT Services	VC3, Inc.	\$ 288,000.00	\$ 3,464.95	\$ 111,908.05	
EFT06461	12/12/2024	WSC373-03	FYE 2025 Roundtable of Regions Network Coordinator	Water Systems Consulting	\$ 72,900.00	\$ 1,554.20	\$ 57,155.97	
EFT06482	12/19/2024	WSC373-03	FYE 2025 Roundtable of Regions Network Coordinator	Water Systems Consulting	\$ 72,900.00	\$ 3,143.00	\$ 57,155.97	
EFT06471	12/19/2024	WCA100-03-07	State Legislative Consulting Services	West Coast Advisors	\$ 117,000.00	\$ 9,750.00	\$ 107,250.00	
EFT06477	12/19/2024	RMC504-401-11	SARCCUP Program Mgmt Services	Woodard & Curran	\$ 136,098.00	\$ 6,064.50	\$ 90,987.60	
					\$ 180,568.94			

COMMISSION MEMORANDUM NO. 2025.16

DATE: February 18, 2025
TO: SAWPA Commission
SUBJECT: Inter-Fund Borrowing – December 2024
PREPARED BY: Karen Williams, DGM/CFO

RECOMMENDATION

Receive and file.

DISCUSSION

On December 13, 2005, the Commission approved Resolution No. 452, Inter-Fund and Inter-Project Loan Policy. Staff was directed to bring back an accounting of the loans each month for review when the total exceeded \$250,000 in aggregate.

The following projects, with negative cash flow, are listed below with the amounts borrowed from SAWPA General Fund Reserves in December 2024. The total amount borrowed is over the aggregate \$250,000 amount recommended in Resolution No. 452, Inter-Fund and Inter-Project Loan Policy. The Commission has requested that this item be brought back each month as an informational item when the loan amount is over the \$250,000 aggregate amount.

Fund	Fund Name	11/30/ 2024 Balance	Loan Receipts	New Charges	12/31/2024 Balance
135	Proposition 84 Admin R2	\$57,088.11	(\$0.00)	\$0.00	\$57,088.11
145	Proposition 84 Admin R4	747,034.26	(0.00)	44,621.07	791,655.33
150	Proposition 1 R1 – Admin	194,299.05	(0.00)	8,422.95	202,722.00
155	Proposition 1 R2 - Admin	121,521.56	(0.00)	3,664.80	125,186.36
376	ICARP	9,982.08	(0.00)	6,569.85	16,551.93
398	DCI 2021 Drought Relief	22,107.20	(0.00)	1,091.16	23,198.36
477	LESJWA Administration	34,634.27	(35,965.36)	12,087.51	10,756.42
	Total Funds Borrowed	\$1,186,666.53	(\$35,965.36)	\$76,457.34	\$1,227,158.51
	General Fund Reserves Balance		\$2,992,451.56		
	Less Amount Borrowed		<u>1,227,158.51</u>		
	Balance of General Fund Reserves		\$1,765,293.05		

The following table lists each fund that has a negative cash flow, the source of funding for the fund, how often the fund is billed, and the projected rate of payment for the fund.

NEGATIVE CASH-FLOW FUNDS

Fund No.	Source of Funding	Billing Frequency	Projected Payment Time
135, 145,150, 155 – Proposition 1 & 84 Admin	DWR – Proposition 1 & 84 Grant	Monthly/Quarterly	Up to 4 months
376 – ICARP	Governor’s Office of Land Use and Climate Innovation Grant	Quarterly	Up to 4 months
397 – WECAN - Riverside	City of Riverside Grant	Quarterly	Up to 4 months
398 – DCI 2021 Drought Relief	DWR – Grant	Monthly	Up to 4 months
477 – LESJWA Admin	Reimbursement from LESJWA	Monthly	2 to 4 weeks
504 – Proposition 84 SARCCUP Projects	DWR – Proposition 84 Grant	Monthly/Quarterly	Up to 4 months

Fund 135

This fund is for the administration of Proposition 84 Round II grant funds. These funds will be billed quarterly and 10% will be withheld for retention.

Fund 145

This fund is for the administration of Proposition 84 Round 2015 grant funds. These funds will be billed quarterly and 10% will be withheld for retention.

Fund 150

This fund is for the administration of Proposition 1 Round I grant funds. Once the contract has been signed by DWR these funds will be billed quarterly and 10% will be withheld for retention.

Fund 155

This fund is for the administration of Proposition 1 Round II grant funds. Once the contract has been signed by DWR these funds will be billed quarterly and 10% will be withheld for retention.

Fund 376

This fund is for the administration of the Integrated Climate Adaptation and Resilience Program. These funds will be billed on a quarterly basis.

Fund 397

This fund is for the transformative climate communities grant provided by a sub-recipient agreement between SAWPA and the City of Riverside. These funds will be billed on a quarterly basis.

Fund 398

This fund is for the DCI 2021 Drought Relief Grant. These funds will be billed monthly and 10% will be withheld for retention.

Fund 477

Each month LESJWA is billed the cost for administering the JPA. Once the bill is received, LESJWA submits payment within two weeks.

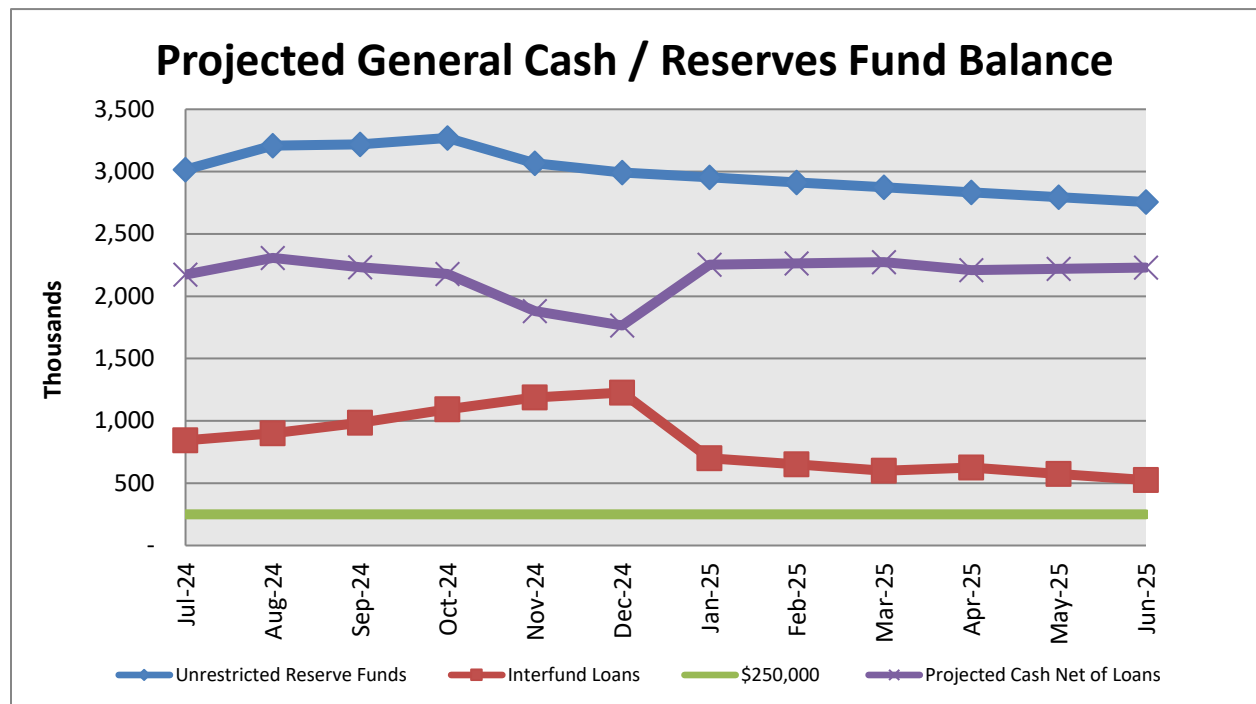
Fund 504

This fund is for the implementation of SARCCUP projects which are administered through PA22 and PA23.

The following graph shows the total budget, total project costs to date, and the amount remaining on each grant.

Fund	Fund Name	Total Budget	Costs Through 12/31/2024	Remaining Grant Budget
145	Proposition 84 Admin R4	\$3,213,384	(\$2,686,773)	\$526,611
150	Proposition 1 R1 Admin	1,157,000	(817,712)	339,288
155	Proposition 1 R2 Admin	1,352,928	(125,185)	1,227,743
376	ICARP Grant	644,190	(16,552)	627,638
378	Prop 1 – R2 Cloud Seeding	861,400	(79,916)	781,484
397	WECAN – City of Riverside	592,417	(198,706)	393,711
398	DCI 2021 Drought Grant	5,000,000	(137,498)	4,862,502
504	Prop 84 – 2015 Round (SARCCUP)	1,543,810	(978,591)	565,219
505	Prop 1 – Round 1 Capital Projects	500,000	(435,173)	64,827
Totals		\$14,865,129	(\$5,476,106)	\$9,389,023

The following graph shows projected inter-fund loan balances, total unrestricted General Fund Reserves available for loans, and projected cash net of loans through June 2025. The projected loan balance is expected to remain over the \$250,000 aggregate limit through June 2025 because of Proposition 1 and 84 grants but can be covered by General Fund Reserves without a major impact on cash flow.



RESOURCE IMPACTS

The funds borrowed from the General Fund Reserves will be paid back with interest when the funding is received. Interfund loans for grants are not charged interest unless the grant contract specifically states that interest is eligible for reimbursement. There is sufficient cash available to cover proposed borrowings and to pay budgeted expenditures for the General Fund.

Attachments:

1. Resolution No. 452 | Amending the Inter-Fund, Inter-Project and Inter-Agency Loan Policy

RESOLUTION NO. 452

A RESOLUTION OF THE COMMISSION OF THE SANTA ANA WATERSHED PROJECT AUTHORITY AMENDING THE INTER-FUND, INTER-PROJECT AND INTER-AGENCY LOAN POLICY

WHEREAS, the Commission of the Santa Ana Watershed Project Authority (hereafter "SAWPA") previously adopted, by minute action taken on August 3, 1996, an "Inter-Fund/Inter-Project Loan Policy" to regulate loans from one SAWPA Fund or Project to another SAWPA Fund or Project; and

WHEREAS, the Commission desires to amend the "Inter-Fund Fund/Project Loan Policy" by formally adopting such Policy, by way of this Resolution, regulating how and in what manner such inter-fund or inter-project loans are to take place and mandating that all such loans require Commission approval in advance as contemplated by the policy adopted on August 3, 1996.

NOW, THEREFORE, BE IT RESOLVED that the Commission of the Santa Ana Watershed Project Authority hereby amends the following Loan Policy for any loan from one SAWPA Fund or Project to another SAWPA Fund or Project:

1. Loans from any SAWPA Fund or Project to another SAWPA Fund, Project or another public agency shall be approved in advance by the SAWPA Commission. The approval shall be in written format and include documentation of the specifics of the transaction. The approval shall include a finding that the loan will not expose the lending SAWPA Fund or Project to significant financial or operational risk.
2. Unless otherwise provided for by the Commission, the borrowing Fund, Project or public agency shall be required to repay the loan within a specific period of time and at a rate of interest as determined by the Commission. For the purposes of this policy, SAWPA's calculated quarterly rate of return may be used as the basis for interest payable on the outstanding principal for any loan. The period for repayment of the loan shall be determined by the Commission, but shall be no longer than the life of the lending Fund or Project.
3. The borrowing Fund's, Project's or public agency's repayment source shall be identified and included in the approval action by the Commission and the "loan documentation". The "loan documentation" shall include a written agreement, resolution or other document approved by the Commission setting forth all of the foregoing terms and conditions.

4. Loans to reimbursable SAWPA grant contract projects and related efforts for short-term (i.e., current fiscal year) operating cash flow purposes may be borrowed from the SAWPA General Fund Reserve without prior Commission approval. But all such loans shall be reported to the Commission within 30 days of each such loan. Such loans shall be paid off on a continuous basis. The total funds loaned for all such grant contract projects and related efforts shall not exceed \$250,000.00 in the aggregate for each fiscal year, without prior written approval by the Commission. Payment of interest will be based on the actual interest that would have been earned by the SAWPA General Fund Reserve had those funds not been borrowed. Cash flow and receivables will be reported at least quarterly to forecast needs and demonstrate compliance.
5. Prior to June 30th of each year, staff shall provide to the Commission an annual written report of all such Inter-fund, Inter-project or Inter-agency loans, amounts repaid and any outstanding loan balances.

ADOPTED this 13th day of December 2005.

SANTA ANA WATERSHED PROJECT AUTHORITY

By: *Mark W. Bulot*
Mark Bulot, Chair



COMMISSION MEMORANDUM NO. 2025.17

DATE: February 18, 2025
TO: SAWPA Commission
SUBJECT: Performance Indicators and Financial Reporting – December 2024
PREPARED BY: Karen Williams, DGM/CFO

RECOMMENDATION

Receive and file.

DISCUSSION

The attached reports have been developed to keep the Commission informed as to SAWPA's business and budget performance. These reports are categorized into the following groups: financial reporting, cash and investments, and performance indicators. They are explained in detail below. As new reports are developed, they will be added for the Commission's review.

Financial Reporting

Balance Sheet by Fund Type	Lists total assets, liabilities, and equity by fund type for a given period.
Revenue & Expense by Fund Type	Lists total revenue and expenses by fund type for a given period.
Receivables Management	Shows total outstanding accounts receivable by age.
Open Task Order Schedule	Shows SAWPA's total outstanding obligation for open task orders.
List of SAWPA Funds	Shows each SAWPA Fund with the fund description and fund group.
Debt Service Funding Analysis	Shows total annual income by source used to make debt service payments through debt maturity at FYE 2048.
Debt Service Payment Schedule	Shows total debt service interest and principal payments through debt maturity at FYE 2048.

Cash and Investments

Total Cash and Investments (chart)	Shows the changes in cash and investments balance for the last twelve months.
Cash Balance & Source of Funds	Shows total cash and investments for all SAWPA funds and the types of investments held for each fund.
Cash & Investments (pie chart)	Shows total cash and investments for all SAWPA funds and the percentage of each investment type.
Reserve Account Analysis	Shows changes to each reserve account for the year and projected ending balance for each.

Twelve Month Security Schedule (chart)	Shows the maturity dates for securities held and percentage of securities in each category.
Treasurer's Report	Shows book and market value for both Treasury strips and securities held by the Agency.

Performance Indicators

Average Daily Flow by Month	Shows total flow in the Brine Line System by month compared to total treatment capacity owned. This is an indicator of the available capacity in the line. As we add yearly flows, it will show trends in flow throughout the year.
Summary of Labor Multipliers	Summarizes the information generated from the following two reports and compares the actual benefit and Indirect Cost Allocation rates to the total budgeted rates.
General Fund Costs	Lists total Fund No. 100 costs to date and the amount of those costs recovered through the Indirect Cost Allocation and member contributions.
Benefit Summary	Lists total employee benefit costs actual to budget and projects them through the end of the year. This report compares how the actual benefit rate compares to the budgeted rate.
Labor Hours Budget vs. Actual	Shows total budgeted hours for each project and compares them to the actual hours charged to each.

RESOURCE IMPACTS

Staff expects minimal impacts to SAWPA or its member agencies related to this effort.

Attachments:

- | | |
|---------------------------------------|---|
| 1. Balance Sheet by Fund Type | 10. Reserve Account Analysis |
| 2. Revenue & Expense by Fund Type | 11. Twelve-Month Maturity Schedule - Securities |
| 3. Accounts Receivable Aging Report | 12. Treasurer's Report |
| 4. Open Task Order Schedule | 13. Average Daily Flow by Month |
| 5. List of SAWPA Funds | 14. Summary of Labor Multipliers |
| 6. Debt Service Funding Analysis | 15. General Fund Costs |
| 7. Debt Service Payment Schedule | 16. Benefits |
| 8. Total Cash and Investments (chart) | 17. Labor Hours Budgeted vs. Actual |
| 9. Cash Balance & Source of Funds | |

Santa Ana Watershed Project Authority
Balance Sheet by Fund Type
For the Five Months Ending Saturday, November 30, 2024

	General Fund	Brine Line Enterprise	Capital Projects	OWOW Projects	Roundtable Projects	Fund Totals
Assets						
Current Assets						
Cash and Investments	\$3,852,533.99	\$66,261,005.16	(\$47,869.63)	\$1,210,023.86	\$3,279,410.31	\$74,555,103.69
Accounts Receivable	29.58	2,453,634.80	0.00	5,311,347.33	273,540.78	8,038,552.49
Prepays and Deposits	31,465.71	97,517.67	0.00	0.00	0.00	128,983.38
Total Current Assets	3,884,029.28	68,812,157.63	(47,869.63)	6,521,371.19	3,552,951.09	82,722,639.56
Fixed Assets						
Property, Plant & Equipment						
less accum depreciation	1,387,915.60	66,796,828.82	0.00	0.00	0.00	68,184,744.42
Work In Process	0.00	2,663,257.17	705,023.12	0.00	0.00	3,368,280.29
Total fixed assets	1,387,915.60	69,460,085.99	705,023.12	0.00	0.00	71,553,024.71
Other Assets						
Wastewater treatment/disposal						
rights, net of amortization	0.00	19,219,958.29	0.00	0.00	0.00	19,219,958.29
Inventory - Mitigation Credits	0.00	0.00	0.00	0.00	1,910,560.00	1,910,560.00
Leased Assets, net of amortization	20,763.25	151,883.84	0.00	0.00	0.00	172,647.09
Total Other Assets	20,763.25	19,371,842.13	0.00	0.00	1,910,560.00	21,303,165.38
Total Assets	\$5,292,708.13	\$157,644,085.75	\$657,153.49	\$6,521,371.19	\$5,463,511.09	\$175,578,829.65
Liabilities and Fund Equity						
Current Liabilities						
Accounts Payable/Accrued						
Expenses	\$3,626,122.29	\$2,314,396.26	\$3,397.50	\$4,488,525.67	\$99,483.39	\$10,531,925.11
Accrued Interest Payable	0.00	169,527.34	0.00	0.00	0.00	169,527.34
Customer Deposits	0.00	666.53	0.00	0.00	0.00	666.53
Noncurrent Liabilities						
Long-term Debt	0.00	20,181,046.08	0.00	0.00	0.00	20,181,046.08
Lease Liability	20,881.27	154,009.80	0.00	0.00	0.00	174,891.07
Deferred Revenue	0.00	55,159,506.26	0.00	0.00	0.00	55,159,506.26
Total Liabilities	3,647,003.56	77,979,152.27	3,397.50	4,488,525.67	99,483.39	86,217,562.39
Fund Equity						
Contributed Capital	0.00	20,920,507.03	0.00	0.00	0.00	20,920,507.03
Retained Earnings	3,039,412.76	54,729,095.20	3,193,915.75	1,697,281.90	4,521,033.11	67,180,738.72
Revenue Over/Under Expenditures	(1,393,708.19)	4,015,331.25	(2,540,159.76)	335,563.62	842,994.59	1,260,021.51
Total Fund Equity	1,645,704.57	79,664,933.48	653,755.99	2,032,845.52	5,364,027.70	89,361,267.26
Total Liabilities & Fund Equity	\$5,292,708.13	\$157,644,085.75	\$657,153.49	\$6,521,371.19	\$5,463,511.09	\$175,578,829.65

Santa Ana Watershed Project Authority
Revenue & Expenses by Fund Type
For the Five Months Ending Saturday, November 30, 2024

	General Fund	Brine Line Enterprise	Capital Projects	OWOW Projects	Roundtable Projects	Fund Totals
Operating Revenue						
Discharge Fees	\$0.00	\$5,589,436.52	\$0.00	\$0.00	\$0.00	\$5,589,436.52
Grant Proceeds	1,040.00	0.00	0.00	(3,879,750.19)	0.00	(3,878,710.19)
Financing Proceeds	0.00	0.00	0.00	0.00	89,995.70	89,995.70
Total Operating Revenue	<u>1,040.00</u>	<u>5,589,436.52</u>	<u>0.00</u>	<u>(3,879,750.19)</u>	<u>89,995.70</u>	<u>1,800,722.03</u>
Operating Expenses						
Labor	926,784.60	600,170.40	409.64	266,504.27	71,642.01	1,865,510.92
Benefits	241,746.22	218,462.01	149.11	97,007.56	26,077.73	583,442.63
Indirect Costs	0.00	981,878.79	670.17	436,000.98	117,206.30	1,535,756.24
Education & Training	40,556.58	0.00	0.00	0.00	0.00	40,556.58
Consulting & Professional Services	126,469.16	119,995.67	865.00	294,758.92	274,620.45	816,709.20
Operating Costs	4,872.06	1,246,024.63	0.00	0.00	156.44	1,251,053.13
Repair & Maintenance	31,121.47	11,042.83	0.00	0.00	576.00	42,740.30
Phone & Utilities	34,056.62	3,514.91	0.00	0.00	0.00	37,571.53
Equipment & Computers	136,210.01	42,973.54	0.00	0.00	0.00	179,183.55
Meeting & Travel	24,536.71	1,125.94	0.00	1,176.65	191.18	27,030.48
Other Administrative Costs	98,240.66	59,410.49	0.00	20,200.00	10,540.26	188,391.41
Indirect Costs Applied	(1,531,459.48)	0.00	0.00	0.00	0.00	(1,531,459.48)
Other Expenses	31,125.12	102,939.70	0.00	0.00	0.00	134,064.82
Construction	0.00	0.00	0.00	(3,708,184.39)	0.00	(3,708,184.39)
Total Operating Expenses	<u>164,259.73</u>	<u>3,387,538.91</u>	<u>2,093.92</u>	<u>(2,592,536.01)</u>	<u>501,010.37</u>	<u>1,462,366.92</u>
Operating Income (Loss)	(163,219.73)	2,201,897.61	(2,093.92)	(1,287,214.18)	(411,014.67)	338,355.11
Nonoperating Income (Expense)						
Member Contributions	712,910.00	0.00	0.00	1,528,500.00	20,000.00	2,261,410.00
Other Agency Contributions	0.00	0.00	0.00	78,900.00	1,200,363.99	1,279,263.99
Interest Income	39,886.76	954,931.16	0.00	15,377.80	25,166.20	1,035,361.92
Interest Expense - Debt Service	0.00	(215,400.41)	0.00	0.00	0.00	(215,400.41)
Other Income	998.31	199.90	0.00	0.00	0.00	1,198.21
Retiree Medical Benefits	(29,744.94)	0.00	0.00	0.00	0.00	(29,744.94)
Total Nonoperating Income (Expense)	<u>724,050.13</u>	<u>739,730.65</u>	<u>0.00</u>	<u>1,622,777.80</u>	<u>1,245,530.19</u>	<u>4,332,088.77</u>
Excess Rev over (under) Exp	<u>\$560,830.40</u>	<u>\$2,941,628.26</u>	<u>(\$2,093.92)</u>	<u>\$335,563.62</u>	<u>\$834,515.52</u>	<u>\$4,670,443.88</u>

Aging Report
Santa Ana Watershed Project Authority
Receivables as of
December 31, 2024

Customer Name	Project	Total	0-30 Days	31-60 Days	61 and Over
Beaumont, City of	Brine Line	2,399.88		2,399.88	
Chino Basin Desalter Authority	Brine Line	191,575.21		191,575.21	
Corona, City of	Basin Monitoring	28,484.21			28,484.21
Department of Water Resources	Prop 84, Prop 1	5,304,679.03			5,304,679.03
Eastern Municipal Water District	Brine Line	504,603.25	17,793.75	230,777.96	256,031.54
Inland Empire Utilities Agency	Brine Line	113,004.84		113,004.84	
County of Orange	RWQ Monitoring	27,672.00			27,672.00
Rialto BioEnergy Solutions	Brine Line	8,896.88	8,896.88		
Riverside, City of	WECAN	4,068.30			4,068.30
Riverside, City of Wastewater Treatment	MSAR TMDL	12,605.00			12,605.00
Riverside County Flood Control	MSAR TMDL, RWQ Monitoring	127,725.00			127,725.00
San Bernardino Valley Municipal Water District	Brine Line	4,770,904.90		4,624,572.85	146,332.05
San Diego, City of	Roundtable of Regions	2,600.00			2,600.00
University of California, Riverside	MSAR TMDL	12,605.00			12,605.00
Western Municipal Water District	Brine Line	393,543.26	1,100.00	392,443.26	
Total Accounts Receivable		11,505,366.76	27,790.63	5,552,374.12	5,922,802.13

Santa Ana Watershed Project Authority
Open Task Orders
Dec-24
(Reflects Invoices Received as of 01/15/2025)

Task Order No. Project Contracts	Fund No.	Vendor Name	Task Description	Begin Date	End Date	Original Contract	Change Orders	Total Contract	Billed To Date	Contract Balance	SAWPA Manager
ACS100-26	100-00	VC3, Inc.	IT Services	01/01/2023	12/31/2026	\$ 288,000.00	\$ -	\$ 288,000.00	\$ 176,091.95	\$ 111,908.05	Dean Unger
ENSO100-01	100-00	Endeavour Solutions, Inc.	GP Study and Support FY 2024-2025	07/01/2024	06/30/2025	\$ 18,385.00	\$ -	\$ 18,385.00	\$ 7,332.50	\$ 11,052.50	Dean Unger
FEBR100-01	100-00	C.J. Brown & Company	Professional Audit Services	04/19/2022	06/30/2025	\$ 78,980.00	\$ -	\$ 78,980.00	\$ 61,328.00	\$ 17,652.00	Karen Williams
KON100-12	100-00	Konica Minolta - Rental	New Copiers 2024-2028	09/01/2024	09/01/2028	\$ 66,228.96	\$ -	\$ 66,228.96	\$ 6,577.06	\$ 59,651.90	Dean Unger
LSGK100-13	100-00	Lagerlof, LLP	Legal Services	07/01/2024	06/30/2025	\$ 94,720.00	\$ -	\$ 94,720.00	\$ 42,166.48	\$ 52,553.52	Jeff Mosher
SOL100-18	100-00	Sol Media	Website Related Changes	07/01/2024	06/30/2025	\$ 20,400.00	\$ -	\$ 20,400.00	\$ 7,530.00	\$ 12,870.00	Dean Unger
ZHAP100-01	100-00	Zhappo Studios	On-Demand Graphic Design Services	01/29/2024	01/29/2025	\$ 7,310.00	\$ -	\$ 7,310.00	\$ 1,555.50	\$ 5,754.50	Karen Williams
WCA100-03-07	100-03	West Coast Advisors	State Legislative Consulting Services	01/01/2025	12/31/2025	\$ 117,000.00	\$ -	\$ 117,000.00	\$ 9,750.00	\$ 107,250.00	Jeff Mosher
WO2025-20	240	E S Babcock	Wastewater Sample Collection and Analysis	07/01/2024	06/30/2025	\$ 88,295.50	\$ -	\$ 88,295.50	\$ 41,279.14	\$ 47,016.36	David Ruhl
WO2025-21	240	E S Babcock	Special Events Sample Collection and Analysis	07/01/2024	06/30/2025	\$ 20,000.00	\$ -	\$ 20,000.00	\$ -	\$ 20,000.00	David Ruhl
DUDK240-07	240	Dudek	Inland Empire Brine Line Master Plan	11/01/2022	01/31/2025	\$ 399,980.00	\$ -	\$ 399,980.00	\$ 394,900.27	\$ 5,079.73	David Ruhl
DUDK240-10	240	Dudek	Brine Line Sewer System Management Plan Audit 2024	07/01/2024	06/30/2025	\$ 28,220.00	\$ -	\$ 28,220.00	\$ 25,631.25	\$ 2,588.75	Daniel Vasquez
DUDK240-11	240	Dudek	Hydraulic Modeling Assistance FY 2024-2025	07/01/2024	06/30/2025	\$ 25,000.00	\$ -	\$ 25,000.00	\$ 1,207.50	\$ 23,792.50	David Ruhl
DUDK240-12	240	Dudek	Inland Empire Brine Line Engineering Services FY 2024-25	07/01/2024	06/30/2025	\$ 15,000.00	\$ -	\$ 15,000.00	\$ 9,920.00	\$ 5,080.00	David Ruhl
GIS240-01	240	GIS Surveying	On-Call Surveying Services	07/01/2023	06/30/2025	\$ 22,402.50	\$ -	\$ 22,402.50	\$ -	\$ 22,402.50	Daniel Vasquez
INN240-06	240	Innerline Engineering	Brine Line Pipeline Cleaning Services	07/01/2024	06/30/2026	\$ 316,700.00	\$ -	\$ 316,700.00	\$ -	\$ 316,700.00	Daniel Vasquez
INN240-07	240	Innerline Engineering	On-Call CCTV	07/01/2024	06/30/2026	\$ 102,530.00	\$ -	\$ 102,530.00	\$ 8,972.66	\$ 93,557.34	Daniel Vasquez
PAT240-01	240	Patriot Environmental Services	On-Call Draining and Emergency Response	07/01/2023	06/30/2025	\$ 121,760.00	\$ -	\$ 121,760.00	\$ -	\$ 121,760.00	Daniel Vasquez
PE240-01	240	PE Instruments	Brine Line Flow Meter Calibration Services	07/01/2024	06/30/2026	\$ 19,950.00	\$ -	\$ 19,950.00	\$ 3,550.00	\$ 16,400.00	Daniel Vasquez
TRU240-27	240	Trussell Technologies, Inc	Brine Line Billing Formula Update Study	10/15/2024	08/31/2025	\$ 154,390.00	\$ -	\$ 154,390.00	\$ 21,495.00	\$ 132,895.00	Lucas Gilbert
W&C320-01	320-03	Woodard & Curran	Reach IV and IV-B DIP Condition Assessment	02/09/2023	06/30/2025	\$ 392,356.00	\$ 65,113.00	\$ 457,469.00	\$ 354,789.10	\$ 102,679.90	Daniel Vasquez
W&C327-03	327	Woodard & Curran	IEBL Reach IV-D Rehabilitation Work Plan Mid-Term Recommendations	09/05/2023	01/31/2025	\$ 247,174.00	\$ -	\$ 247,174.00	\$ 216,174.73	\$ 30,999.27	Daniel Vasquez
WSC373-03	373	Water Systems Consulting	FYE 2025 Roundtable of Regions Network Coordinator	08/22/2024	06/30/2025	\$ 72,900.00	\$ -	\$ 72,900.00	\$ 15,744.03	\$ 57,155.97	Ian Achimore
CWE374-01	374	CWE	Basin Monitoring Program Task Force SAR Surface Water Quality Monitoring	09/05/2023	02/15/2027	\$ 93,711.00	\$ -	\$ 93,711.00	\$ 38,205.69	\$ 55,505.31	Ian Achimore
KSC374-03	374	Kahn, Soares, & Conway	Basin Monitoring TF Regulatory Support	07/01/2023	06/30/2025	\$ 133,000.00	\$ -	\$ 133,000.00	\$ 67,870.41	\$ 65,129.59	Rachel Gray
WEST374-02	374	West Yost	Ambient Water Quality Pilot Study for Nitrogen and TDS	12/30/2022	03/31/2025	\$ 339,960.00	\$ -	\$ 339,960.00	\$ 274,482.70	\$ 65,477.30	Rachel Gray
CDM377-02	377	CDM Smith, Inc.	PFAS Regional Analysis for Upper Santa Ana River Watershed - Phase 2	11/21/2023	06/30/2025	\$ 465,917.00	\$ -	\$ 465,917.00	\$ 315,732.77	\$ 150,184.23	Rachel Gray

Santa Ana Watershed Project Authority
Open Task Orders
Dec-24
(Reflects Invoices Received as of 01/15/2025)

Task Order No. Project Contracts	Fund No.	Vendor Name	Task Description	Begin Date	End Date	Original Contract	Change Orders	Total Contract	Billed To Date	Contract Balance	SAWPA Manager
DRI378-01	378	Board of Regents of the Nevada System of Higher Education	Weather Modification Pilot Validation	10/26/2022	10/17/2027	\$ 155,000.00	\$ -	\$ 155,000.00	\$ 46,045.61	\$ 108,954.39	Rachel Gray
NAWC370-03	378	North American Weather Consultants	SAR Weather Modification Pilot Operations	07/01/2022	04/15/2027	\$ 1,061,912.00	\$ 35,160.00	\$ 1,097,072.00	\$ 356,678.90	\$ 740,393.10	David Ruhl
GEI384-02	384-01	GEI Consultants	MSAR TMDL - Limited Basin Plan Amendment Revisions	07/01/2022	06/30/2025	\$ 67,000.00	\$ 86,530.00	\$ 153,530.00	\$ 66,871.25	\$ 86,658.75	Rick Whetsel
KSC384-03	384-01	Kahn, Soares, & Conway	MSAR Pathogen TMDL TF Regulatory Support	07/01/2023	06/30/2025	\$ 148,500.00	\$ -	\$ 148,500.00	\$ 21,240.00	\$ 127,260.00	Rick Whetsel
GEI386-02	386	GEI Consultants	Santa Ana River Regional Bacteria Monitoring Program	02/01/2024	06/30/2027	\$ 1,191,054.00	\$ -	\$ 1,191,054.00	\$ 257,310.46	\$ 933,743.54	Rick Whetsel
IERCD387-01	387	Inland Empire Resource Conservation District	Arundo Donax Removal in the SAR Basin Headwaters	07/19/2022	12/31/2027	\$ 147,777.07	\$ -	\$ 147,777.07	\$ 91,186.38	\$ 56,590.69	Ian Achimore
JPW392-02	392	JPW Communications	Emerging Constituents Program Public Relations Support	07/01/2023	06/30/2025	\$ 114,954.00	\$ -	\$ 114,954.00	\$ 89,102.43	\$ 25,851.57	Rachel Gray
KSC392-03	392	Kahn, Soares, & Conway	Emerging Constituents Program TF Regulatory Support	07/01/2023	06/30/2025	\$ 48,000.00	\$ -	\$ 48,000.00	\$ 7,440.00	\$ 40,560.00	Rachel Gray
ECOT397-04	397	EcoTech Services	WECAN Riverside Eastside Climate Collaborative Landscaping	07/19/2022	12/31/2025	\$ 567,150.00	\$ -	\$ 567,150.00	\$ 135,718.91	\$ 431,431.09	Rick Whetsel
QUAN504-01	504-04	Quantum Spatial, Inc.	Water Efficiency Budget Assistance	02/10/2021	04/30/2025	\$ 594,387.00	\$ 39,599.00	\$ 633,986.00	\$ 623,997.82	\$ 9,988.18	Ian Achimore
RMC504-401-11	504-04	Woodard & Curran	SARCCUP Program Mgmt. Services	07/01/2024	06/30/2025	\$ 136,098.00	\$ -	\$ 136,098.00	\$ 45,110.40	\$ 90,987.60	Ian Achimore

\$ 4,253,607.08

LIST OF SAWPA FUNDS

Fund No.	Fund Description	Fund Group
100-00	General Fund	General
100-03	State Legislative/Regulatory Outreach	General
100-04	Federal Legislative/Regulatory Outreach	General
145	Proposition 84 – Program Management – 2015 Round	OWOW
150	Proposition 1 – R1 Program Management	OWOW
155	Proposition 1 – R2 Program Management	OWOW
240	Brine Line Enterprise	Brine Line
320-01	Brine Line Protection – Downstream Prado	Capital Projects
320-03	Brine Line Protection Above Prado	Capital Projects
320-04	Brine Line Protection D/S Prado in Riverside County	Capital Projects
327	Reach IV-D Corrosion Repair	Capital Projects
328	Aqua Mansa Lateral Project	Capital Projects
370-01	Basin Planning General	OWOW
370-02	USBR Partnership Studies	OWOW
373	Watershed Management (OWOW)	OWOW
374	Basin Monitoring Program Task Force	Roundtable
376	Integrated Climate Adaptation & Resilience Program	OWOW
377	PFAS Study	OWOW
378	Weather Modification	OWOW
381	Santa Ana River Fish Conservation	Roundtable
384-01	MSAR TMDL Task Force	Roundtable
386	Regional Water Quality Monitoring Task Force	Roundtable
387	Arundo Management & Habitat Restoration	Roundtable
392	Emerging Constituents Task Force	Roundtable
397	Energy – Water DAC Grant Project	OWOW
398	DCI 2021 Drought Relief Grant	OWOW
477	LESJWA Administration	Roundtable
504-01	Proposition 84 – Capital Projects Round 1 & 2	OWOW
504-04	Proposition 84 – Final Round SARCCUP	OWOW
505-00	Proposition 1 – SAWPA Capital Projects	OWOW
505-01	Proposition 1 – Round I Capital Projects	OWOW
505-02	Proposition 1 – Round II Capital Projects	OWOW

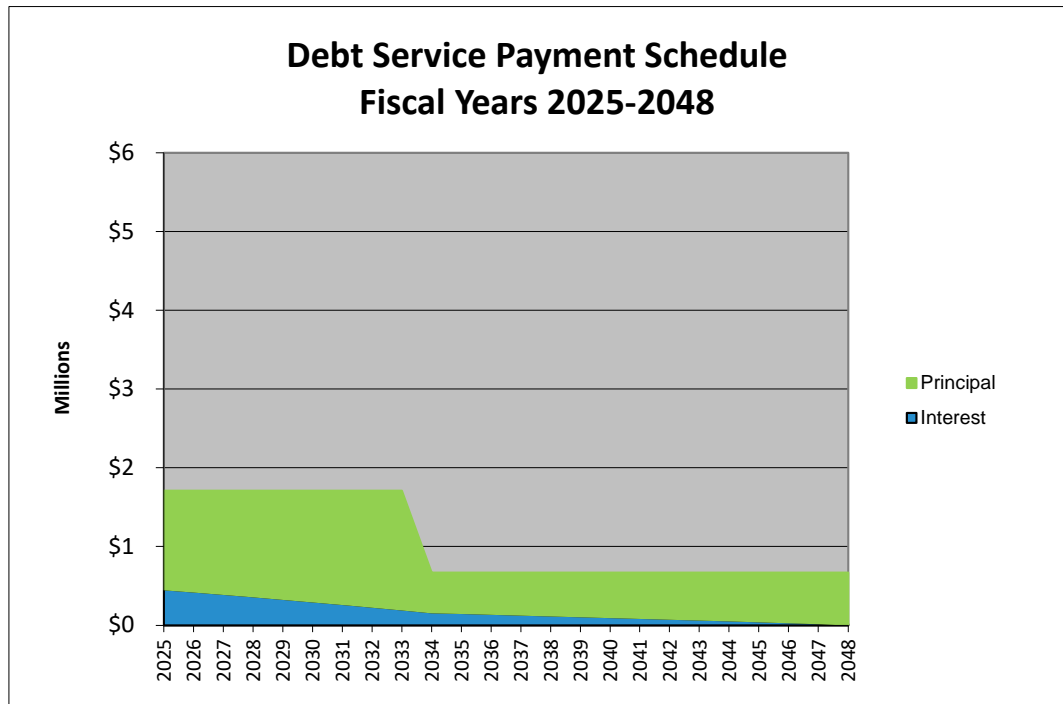
Santa Ana Watershed Project Authority
 Brine Line Debt Service Funding Analysis
 December 31, 2024

FYE	Rates	Loan Pymts	Interest Earned *	Excess Cash	Ending Cash Balance
Beginning Balance					3,011,686
2025	1,709,476	(1,709,476)	90,351	90,351	3,102,037
2026	1,709,476	(1,709,476)	93,061	93,061	3,195,098
2027	1,709,476	(1,709,476)	95,853	95,853	3,290,951
2028	1,709,476	(1,709,476)	98,729	98,729	3,389,679
2029	1,709,476	(1,709,476)	101,690	101,690	3,491,369
2030	1,709,476	(1,709,476)	104,741	104,741	3,596,111
2031	1,709,476	(1,709,476)	107,883	107,883	3,703,994
2032	1,709,476	(1,709,476)	111,120	111,120	3,815,114
2033	1,709,476	(1,709,476)	114,453	114,453	3,929,567
2034	665,203	(665,203)	117,887	117,887	4,047,454
2035	665,203	(665,203)	121,424	121,424	4,168,879
2036	665,203	(665,203)	125,066	125,066	4,293,944
2037	665,203	(665,203)	128,818	128,818	4,422,763
2038	665,203	(665,203)	132,683	132,683	4,555,445
2039	665,203	(665,203)	136,663	136,663	4,692,109
2040	665,203	(665,203)	140,763	140,763	4,832,872
2041	665,203	(665,203)	144,986	144,986	4,977,858
2042	665,203	(665,203)	149,336	149,336	5,127,194
2043	665,203	(665,203)	153,816	153,816	5,281,010
2044	665,203	(665,203)	158,430	158,430	5,439,440
2045	665,203	(665,203)	163,183	163,183	5,602,623
2046	665,203	(665,203)	168,079	168,079	5,770,702
2047	665,203	(665,203)	173,121	173,121	5,943,823
2048	665,203	(665,203)	178,315	178,315	6,122,138
	25,363,319	(25,363,319)	3,110,452	3,110,452	-

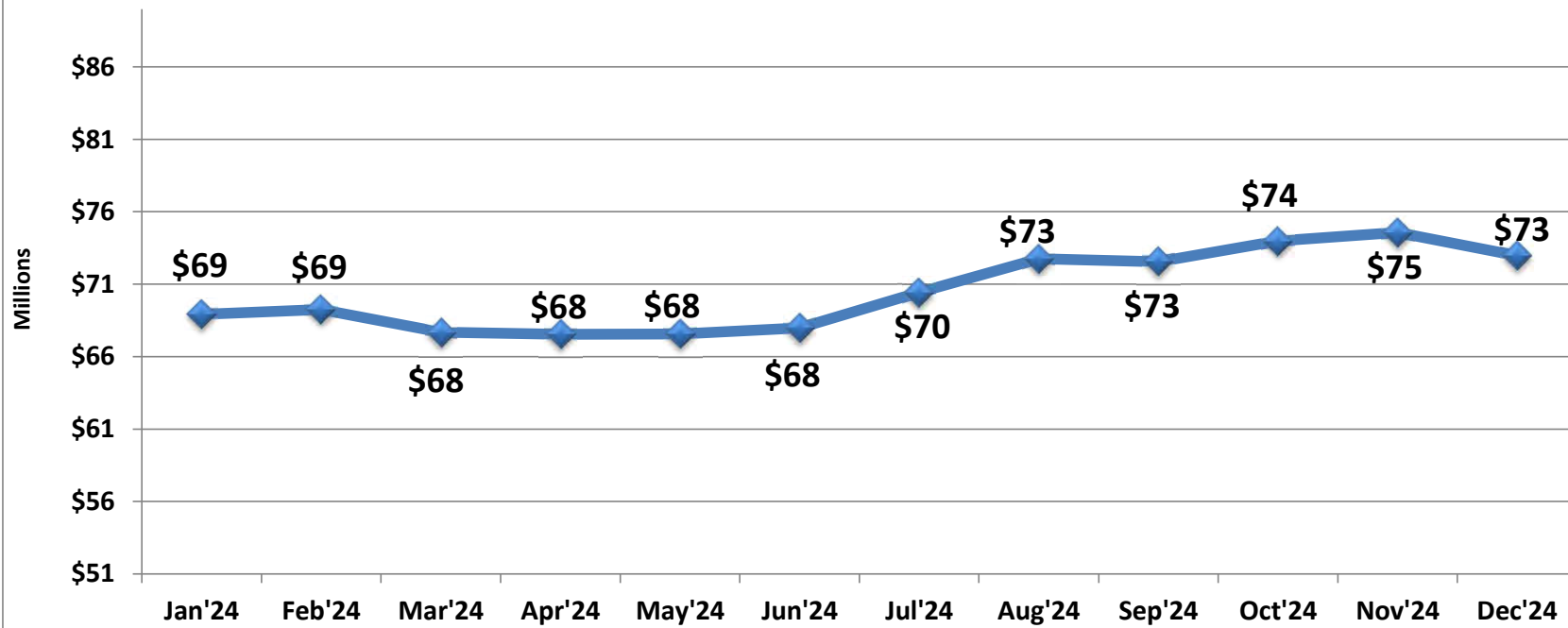
*Interest earned is based on a conservative 3.00% average return over the period

Santa Ana Watershed Project Authority
 Brine Line Debt Service Payment Schedule
 December 31, 2024

FYE	Interest	Principal	Total Payment	Remaining Principal
2025	457,181	1,252,295	1,709,476	19,757,624
2026	427,585	1,281,891	1,709,476	18,475,733
2027	397,276	1,312,199	1,709,476	17,163,534
2028	366,237	1,343,239	1,709,476	15,820,295
2029	334,449	1,375,027	1,709,476	14,445,268
2030	301,894	1,407,582	1,709,476	13,037,686
2031	268,553	1,440,923	1,709,476	11,596,763
2032	234,407	1,475,068	1,709,476	10,121,694
2033	199,437	1,510,039	1,709,476	8,611,656
2034	163,621	501,581	665,203	8,110,075
2035	154,091	511,111	665,203	7,598,964
2036	144,380	520,822	665,203	7,078,141
2037	134,485	530,718	665,203	6,547,424
2038	124,401	540,801	665,203	6,006,622
2039	114,126	551,077	665,203	5,455,545
2040	103,655	561,547	665,203	4,893,998
2041	92,986	572,217	665,203	4,321,782
2042	82,114	583,089	665,203	3,738,693
2043	71,035	594,167	665,203	3,144,526
2044	59,746	605,457	665,203	2,539,069
2045	48,242	616,960	665,203	1,922,109
2046	36,520	628,682	665,203	1,293,427
2047	24,575	640,627	665,203	652,799
2048	12,403	652,799	665,203	(0)



Total Cash & Investments





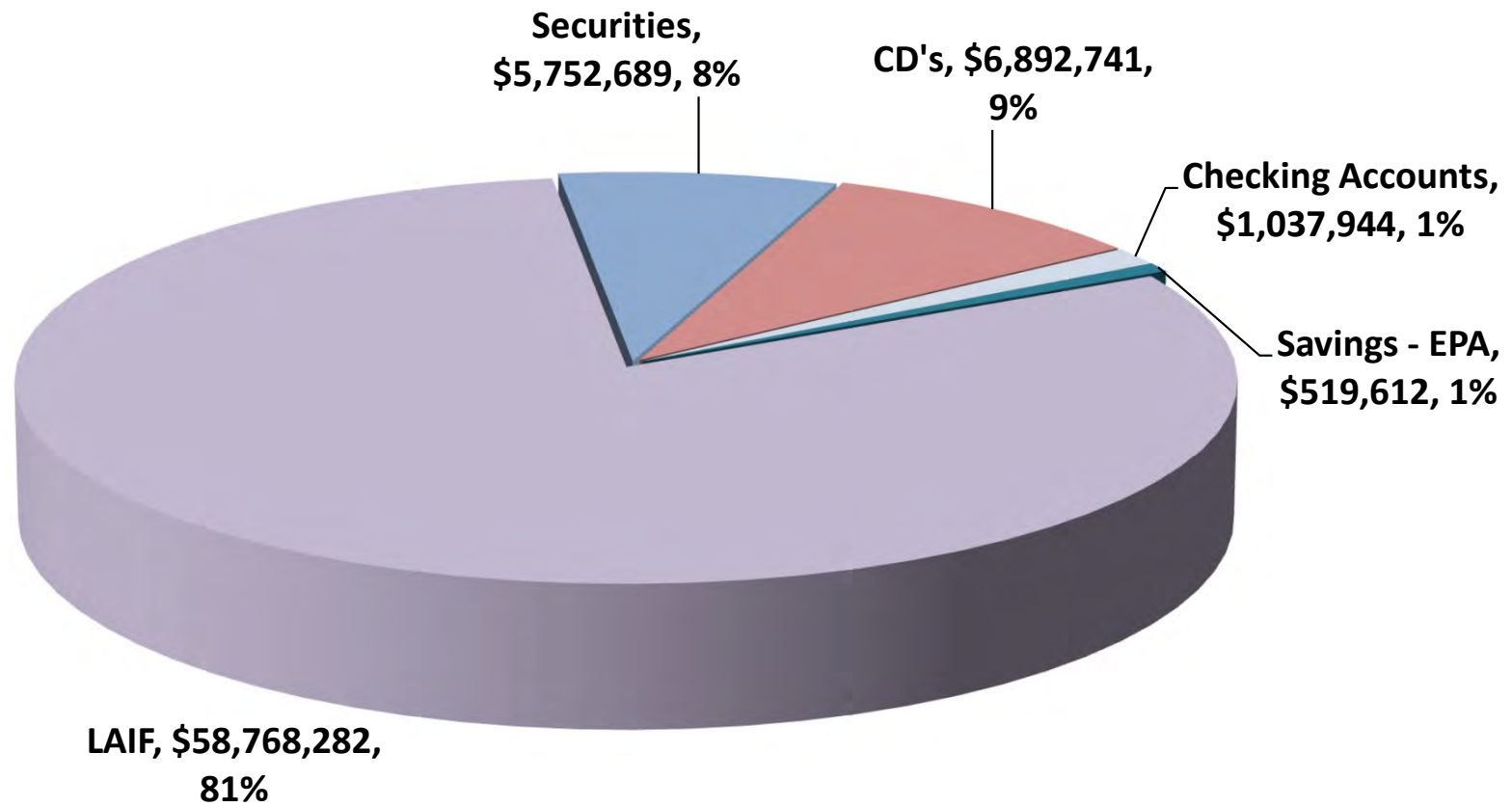
CASH BALANCE & SOURCE OF FUNDS

December 31, 2024

Fund Accounts		Cash and Investments						
		Total	Checking (Cash)	LAIF Account	Savings EPA	Investment Securities	Certificates of Deposit	Total
100	General Fund	\$ 1,765,293	1,037,944	727,349	-	-	-	\$ 1,765,293
100	Building Reserve	\$ 786,011	-	786,011	-	-	-	\$ 786,011
370	Basin Planning General	\$ 227,102	-	227,102	-	-	-	\$ 227,102
370	USBR Partnership Studies	\$ 68,187	-	68,187	-	-	-	\$ 68,187
373	Watershed Management Plan	\$ 414,233	-	414,233	-	-	-	\$ 414,233
240	Brine Line Debt Retirement	\$ 3,043,856	-	3,043,856	-	-	-	\$ 3,043,856
240	Brine Line - Pipeline Replacement & Capital Improvement	\$ 37,229,471	-	24,584,041	-	5,752,689	6,892,741	\$ 37,229,471
240	Brine Line - OC San Pipeline Rehabilitation	\$ 3,068,481	-	3,068,481	-	-	-	\$ 3,068,481
240	Brine Line - Pipeline Capacity Management	\$ 12,944,921	-	12,944,921	-	-	-	\$ 12,944,921
240	Brine Line - OC San Future Treatment & Disposal Capacity	\$ 1,981,909	-	1,981,909	-	-	-	\$ 1,981,909
240	Brine Line - Operating Reserve	\$ 2,312,437	-	2,312,437	-	-	-	\$ 2,312,437
240	Brine Line - Operating Cash	\$ 4,367,742	-	4,367,742	-	-	-	\$ 4,367,742
401	Legal Defense Fund	\$ 519,612	-	-	519,612	-	-	\$ 519,612
374	Basin Monitoring Program TF	\$ 1,093,497	-	1,093,497	-	-	-	\$ 1,093,497
377	PFAS Study	\$ 737,888	-	737,888	-	-	-	\$ 737,888
378	Cloud Seeding	\$ 68,450	-	68,450	-	-	-	\$ 68,450
381	SAR Fish Conservation	\$ 102,439	-	102,439	-	-	-	\$ 102,439
384	Middle SAR TMDL TF	\$ 413,867	-	413,867	-	-	-	\$ 413,867
386	RWQ Monitoring TF	\$ 148,127	-	148,127	-	-	-	\$ 148,127
387	Mitigation Bank Credits	\$ 726,661	-	726,661	-	-	-	\$ 726,661
392	Emerging Constituents TF	\$ 243,078	-	243,078	-	-	-	\$ 243,078
397	WECAN - City of Riverside	\$ 9,624	-	9,624	-	-	-	\$ 9,624
504	Prop 84 - SARCCUP Projects	\$ 649,976	-	649,976	-	-	-	\$ 649,976
505	Prop 1 - Capital Projects	\$ 48,406	-	48,406	-	-	-	\$ 48,406
		\$ 72,971,268	\$ 1,037,944	\$ 58,768,282	\$ 519,612	\$ 5,752,689	\$ 6,892,741	\$ 72,971,268

Cash & Investments - December 2024

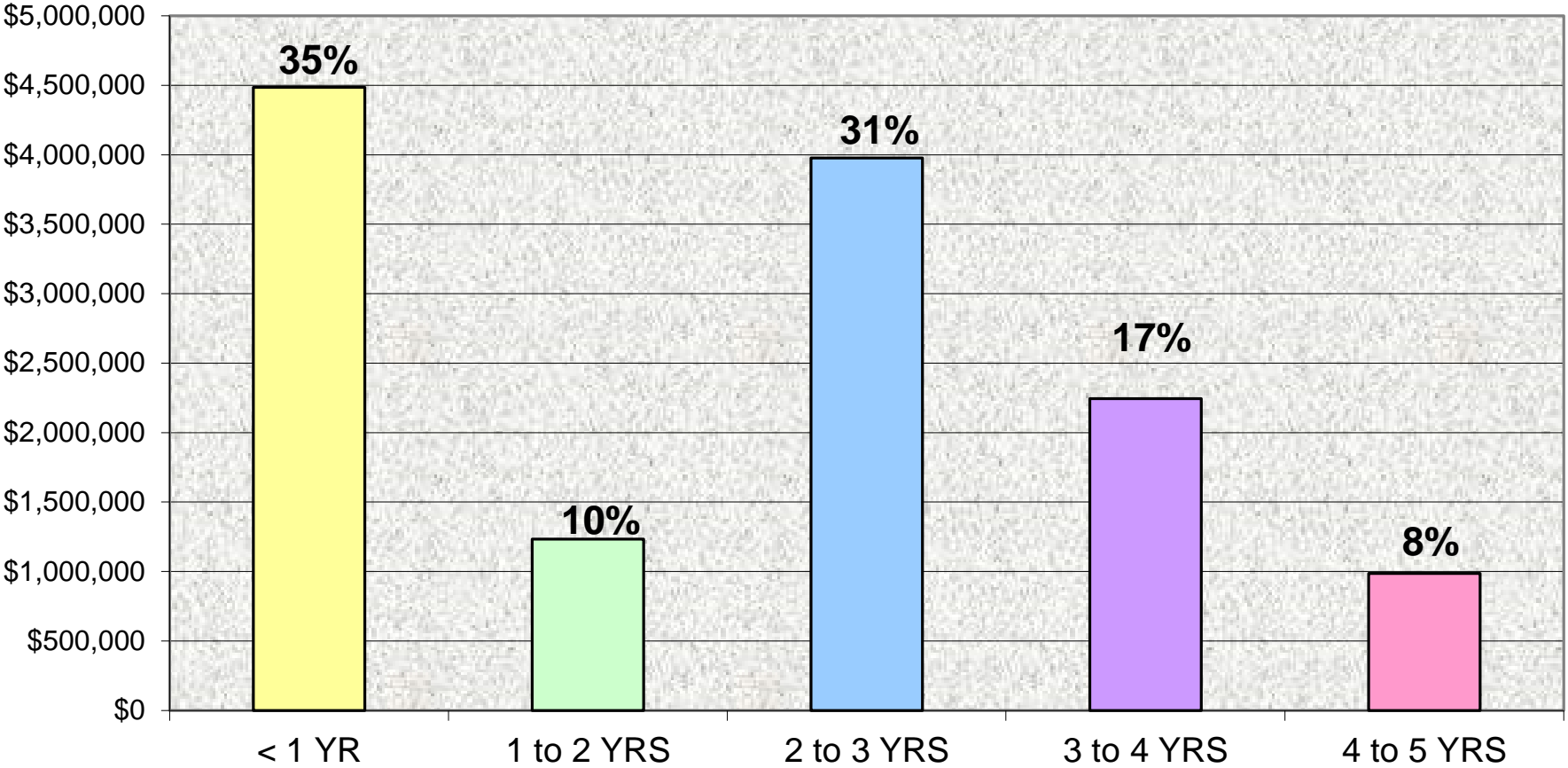
\$72,971,268



Santa Ana Watershed Project Authority
Reserve Account Analysis
December 31, 2024

Reserve Account	Balance @ 6/30/2024	Interest Earned	Fund Receipts/ Contributions	Inter-Fund Loans	Fund Expenses	Balance @ 12/31/2024	Estimated Fund Changes	Balance @ 6/30/2025
Brine Line Operating Cash	4,429,327	64,027	6,993,314		(7,118,926)	4,367,742		4,367,742
Brine Line Operating Reserve	2,240,462	71,975				2,312,437		2,312,437
OC San Future Treatment & Disposal Capacity	1,940,030	41,879				1,981,909		1,981,909
Pipeline Capacity Management	12,671,389	273,532				12,944,921		12,944,921
Pipeline Replacement & Capital Investment	34,149,034	581,562	2,672,162		(173,287)	37,229,471	(1,696,726)	35,532,745
OC San Pipeline Rehabilitation	2,849,924	62,771	155,786			3,068,481		3,068,481
Debt Retirement	2,979,538	64,318				3,043,856		3,043,856
General Fund	1,949,870	32,259	732,048	(1,227,159)	278,275	1,765,293		1,765,293
Building Reserve	620,007	14,460	100,000		51,544	786,011		786,011
	63,829,581	1,206,783	10,653,310	(1,227,159)	(6,962,394)	67,500,122	(1,696,726)	65,803,396

Twelve Month Maturity Schedule Securities



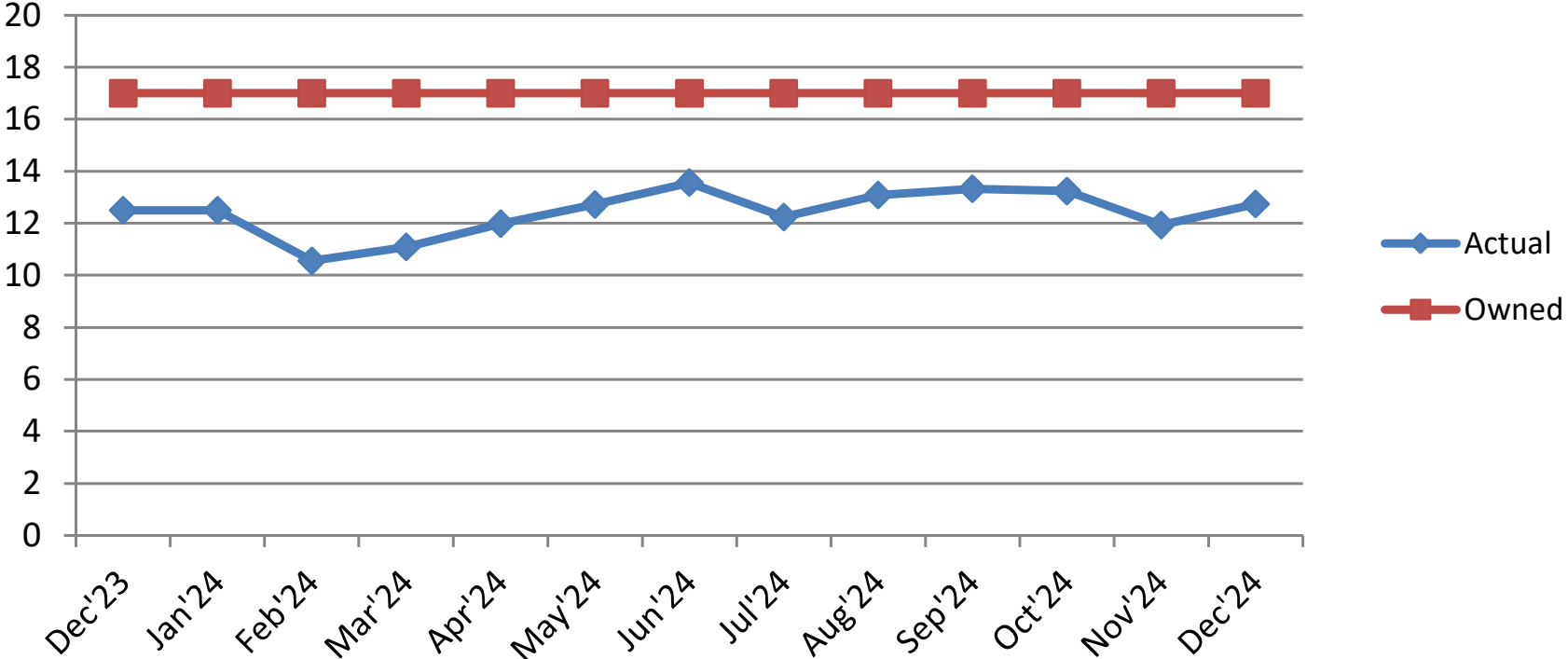
SAWPA
TREASURER'S REPORT
As of December 31, 2024

Investment Commercial

Safekeeping US Bank

Type	Security	Purchase Date	Maturity Date	Unit Cost	Cost	Principal	Current Value	Market Value	Interest Rate
Agency	FHLB	11/4/2022	9/10/2027	99.20	\$ 991,965.00	\$ 1,000,000.00	\$ 1,000,000.00	994,914.83	4.125%
Agency	FHLB	6/6/2023	6/9/2028	100.50	\$ 502,505.00	\$ 500,000.00	\$ 500,000.00	493,450.48	4.000%
Agency	FHLB	1/25/2024	6/30/2028	99.73	\$ 999,170.00	\$ 1,000,000.00	\$ 1,000,000.00	990,905.02	4.000%
Agency	FNMA	2/4/2020	1/7/2025	101.08	\$ 505,380.00	\$ 500,000.00	\$ 500,000.00	499,692.57	1.625%
Agency	FNMA	10/30/2020	8/25/2025	99.53	\$ 995,952.00	\$ 1,000,000.00	\$ 1,000,000.00	974,951.03	0.375%
Agency	USTN	4/19/2021	11/30/2025	98.25	\$ 982,500.00	\$ 1,000,000.00	\$ 1,000,000.00	965,488.28	0.375%
Agency	USTN	9/15/2021	5/31/2025	99.58	\$ 989,726.56	\$ 1,000,000.00	\$ 1,000,000.00	983,554.69	0.250%
CD	Beal Bank USA	8/17/2022	8/12/2026	100.00	\$ 245,000.00	\$ 245,000.00	\$ 245,000.00	241,672.17	3.200%
CD	Synchrony Bank	8/12/2022	8/12/2025	100.00	\$ 245,000.00	\$ 245,000.00	\$ 245,000.00	243,679.53	3.350%
CD	Capital One Bank USA	5/25/2022	5/25/2027	100.00	\$ 246,000.00	\$ 246,000.00	\$ 246,000.00	241,467.96	3.200%
CD	Morgan Stanley Private Bank	11/15/2022	11/15/2027	100.00	\$ 248,000.00	\$ 248,000.00	\$ 248,000.00	248,873.83	5.000%
CD	Prime Alliance Bank	11/17/2022	11/17/2027	100.00	\$ 248,000.00	\$ 248,000.00	\$ 248,000.00	248,032.36	4.950%
CD	Cooperative Center FSU	12/29/2022	12/29/2025	100.00	\$ 249,000.00	\$ 249,000.00	\$ 249,000.00	250,270.73	4.650%
CD	Affinity Bank	3/17/2023	3/17/2028	100.00	\$ 248,000.00	\$ 248,000.00	\$ 248,000.00	254,854.33	4.900%
CD	Discover Bank	3/22/2023	3/23/2027	100.00	\$ 243,000.00	\$ 243,000.00	\$ 243,000.00	248,335.37	5.050%
CD	Global Fed CR UN - Alaska	5/12/2023	5/12/2027	100.00	\$ 249,000.00	\$ 249,000.00	\$ 249,000.00	252,303.83	4.600%
CD	UBS Bank USA	5/17/2023	5/17/2027	100.00	\$ 249,000.00	\$ 249,000.00	\$ 249,000.00	252,041.06	4.550%
CD	BMW Bank of North America	6/16/2023	6/16/2026	100.00	\$ 244,000.00	\$ 244,000.00	\$ 244,000.00	245,750.23	4.600%
CD	Farmers Insurance Group	7/26/2023	7/27/2026	100.00	\$ 248,000.00	\$ 248,000.00	\$ 248,000.00	251,904.10	5.100%
CD	Barclays Bank Delaware	7/26/2023	7/28/2025	100.00	\$ 243,000.00	\$ 243,000.00	\$ 243,000.00	244,157.44	5.100%
CD	Chartway Federal Credit Uni	9/8/2023	9/8/2027	100.00	\$ 248,000.00	\$ 248,000.00	\$ 248,000.00	254,263.93	5.000%
CD	Greenstate Credit Union	9/26/2023	9/26/2028	100.00	\$ 248,000.00	\$ 248,000.00	\$ 248,000.00	257,222.35	5.000%
CD	Empower Fed Cedit Union	9/29/2023	9/29/2027	100.00	\$ 248,000.00	\$ 248,000.00	\$ 248,000.00	255,041.26	5.100%
CD	US Alliance Fed Credit Union	9/29/2023	9/29/2028	100.00	\$ 248,000.00	\$ 248,000.00	\$ 248,000.00	258,111.41	5.100%
CD	Numerica Credit Union	11/10/2023	11/10/2026	100.00	\$ 248,000.00	\$ 248,000.00	\$ 248,000.00	254,738.27	5.550%
CD	Heritage Community CR UN	11/15/2023	11/16/2026	100.00	\$ 248,000.00	\$ 248,000.00	\$ 248,000.00	254,392.19	5.450%
CD	Members Trust of SW FCU	1/19/2024	1/19/2029	100.00	\$ 249,000.00	\$ 249,000.00	\$ 249,000.00	249,850.90	4.000%
CD	Hughes FCU	1/29/2024	1/29/2027	100.00	\$ 249,000.00	\$ 249,000.00	\$ 249,000.00	250,935.39	4.400%
CD	Farmers & Merchants TR	1/30/2024	2/1/2027	100.00	\$ 249,000.00	\$ 249,000.00	\$ 249,000.00	249,697.70	4.150%
CD	Nicolet National Bank	3/8/2024	3/8/2029	100.00	\$ 249,000.00	\$ 249,000.00	\$ 249,000.00	252,152.35	4.250%
CD	Medallion Bank	3/13/2024	3/15/2027	100.00	\$ 249,000.00	\$ 249,000.00	\$ 249,000.00	252,025.50	4.600%
CD	Wells Fargo Bank	3/12/2024	3/12/2027	100.00	\$ 249,000.00	\$ 249,000.00	\$ 249,000.00	251,547.12	4.500%
CD	Toyota Financial SGS Bank	5/24/2024	5/24/2029	100.00	\$ 244,000.00	\$ 244,000.00	\$ 244,000.00	250,411.59	4.600%
CD	First Foundation Bank	5/22/2024	5/22/2029	100.00	\$ 244,000.00	\$ 244,000.00	\$ 244,000.00	250,409.20	4.600%
CD	Alliant Credit Union	12/30/2022	12/30/2025	100.00	\$ 248,000.00	\$ 248,000.00	\$ 248,000.00	250,364.83	5.100%
					\$12,890,198.56	\$12,923,000.00	\$12,923,000.00	12,917,463.83	4.126%

Average Daily Flow by Month





SUMMARY OF LABOR MULTIPLIERS

		Benefit Rate
Total Employee Benefits	748,764	0.351
Total Payroll	2,132,898	
Gross Indirect Costs	2,218,713	
Less: Member Contributions & Other Revenue	(515,974)	
Indirect Costs for Distribution	1,702,739	
		Indirect Rate
Direct Labor	1,007,952	1.689
Indirect Costs	1,702,739	
FY 2024-25 Labor multiplier - thru 12/31/24		2.040
FY 2024-25 Budgeted Labor multiplier		<u>2.000</u>
FY 2023-24 Labor multiplier		<u>2.060</u>
FY 2022-23 Labor multiplier		<u>1.984</u>
FY 2021-22 Labor multiplier		<u>1.993</u>



INDIRECT COSTS

(to be Distributed)

G/L Acct.	Description	Actual thru 12/31/24
51000	Salaries - Regular	\$ 1,124,946
52000	Benefits	\$ 409,480
60111	Tuition Reimbursement	\$ -
60112	Training	\$ 7,060
60113	Education	\$ -
60114	Other Training & Education	\$ 33,625
60120	Audit Fees	\$ 20,398
60121	Consulting	\$ 45,290
60126	Temporary Services	\$ -
60128	Other Professional Services	\$ 700
60129	Other Contract Services	\$ -
60130	Legal Fees	\$ 19,808
60133	Employment Recruitment	\$ 322
60145	Permit Fees	\$ 51
60154	Safety	\$ 4,821
60155	Security	\$ 3,608
60156	Custodial Contract Services	\$ 13,525
60157	Landscaping Maintenance	\$ 9,235
60158	HVAC	\$ 7,093
60159	Facility Repair & Maintenance	\$ 1,910
60160	Telephone	\$ 20,849
60161	Cellular Services	\$ 4,449
60163	Electricity	\$ 11,291
60164	Water Services	\$ 4,634
60170	Equipment Expensed	\$ 12,410
60171	Equipment Rented	\$ 9,757

(Continued - next column)

G/L Acct.	Description	Actual thru 12/31/24
60172	Equipment Repair / Maintenance	\$ 1,340
60180	Computer Hardware	\$ 1,678
60181	Computer Software	\$ 98,371
60182	Internet Services	\$ 13,594
60183	Computer Supplies	\$ 926
60184	Computer Repair/Maint	\$ -
60185	Cloud Storage	\$ 18,131
60190	Offsite Meeting/Travel Expense	\$ 888
60191	In House Meetings	\$ 978
60192	Conference Expense	\$ 22,683
60193	Car, Repair, Maintenance	\$ 221
60200	Dues	\$ 37,897
60202	Subscriptions	\$ 8,539
60203	Contributions	\$ 17,650
60210	Bank Charges	\$ -
60211	Shipping/Postage	\$ 254
60212	Office Supplies	\$ 4,516
48000	Commission Fees	\$ 33,540
60221	Commission Mileage Reimb.	\$ 1,536
60222	Other Commission Expense	\$ -
60230	Other Expense	\$ 1,562
60240	Building Lease	\$ 4,473
81010	Retiree Medical Expense	\$ 32,583
80001	Insurance Expense	\$ 37,306
80000	Building Repair/Replacement Reserve	\$ 100,000
80000	Fixed Assets	\$ 14,784

Total Costs \$ 2,218,713

Direct Costs Paid by Projects	\$ 1,759,900
Member Contribution Offset	\$ 475,000
Interest & Other Revenue Offset	\$ 40,974
	\$ 2,275,874

Over (Under) Allocation %	2.5%
Over (Under) Allocation of General Fund Costs	\$ 57,161



BENEFITS SUMMARY

(Distributed based on Actual Labor)

<u>G/L Acct</u>	<u>Description</u>		<u>Budget</u>		<u>Actual @ 12/31/24</u>		<u>Projected FYE 2025</u>
70101	FICA Expense	\$	211,101	\$	94,270	\$	188,540
70102	Medicare Expense	\$	59,818	\$	30,533	\$	59,818
70103	State Unemployment Insurance	\$	3,906	\$	333	\$	3,900
70104	Worker's Compensation Insurance	\$	72,456	\$	23,084	\$	50,000
70105	State Disability Insurance	\$	39,569	\$	21,388	\$	39,569
70106	PERS Pension Plan	\$	487,199	\$	254,209	\$	487,199
70111	Medical Expense	\$	511,245	\$	263,775	\$	511,245
70112	Dental Expense	\$	28,657	\$	19,176	\$	38,352
70113	Vision Insurance	\$	7,751	\$	3,549	\$	7,098
70114	Life Insurance Expense	\$	15,940	\$	8,047	\$	16,093
70115	Long Term Disability	\$	18,593	\$	9,257	\$	18,514
70116	Wellness Program Expense	\$	3,900	\$	443	\$	3,900
70120	Car Allowance	\$	39,000	\$	20,700	\$	41,400
	Total Benefits	\$	1,499,135	\$	748,764	\$	1,465,629
	Total Payroll	\$	4,086,368	\$	2,132,898	\$	4,086,368
	Benefits Rate		36.7%		35.1%		35.9%

Santa Ana Watershed Project Authority
 Labor Hours Budget vs Actual
 Month Ending December 31, 2024

	Fund	Budget	Actual	%
100	General Fund	28,150	13,353	47.44%
145	Prop 84 - 2015 Program Mgmt	2,140	1,073	50.13%
150	Prop1 - Program Management	1,070	350	32.66%
155	Prop1 Round 2	-	263	-100.00%
240	Brine Line Enterprise	19,407	9,193	47.37%
320	Brine Line Protection	277	11	3.97%
327	Reach IV-D Corrosion Repairs	349	5	1.43%
328	Agua Mansa Lateral Construction	-	8	-100.00%
370-01	Basin Planning General	1,830	813	44.44%
370-02	USBR Partnership Studies	75	1	0.67%
373	Watershed Management (OWOW)	1,970	720	36.55%
374	Basin Monitoring Program TF	615	229	37.20%
376	ICARP	-	91	-100.00%
377	PFAS Study	220	54	24.66%
378	Weather Modification	205	32	15.49%
381	SAR Fish Conservation	185	251	135.81%
384-01	MSAR TMDL TF	155	64	41.29%
386MONIT	RWQ Monitoring TF	115	27	23.48%
387	Arundo Removal & Habitat Restoration	250	45	18.00%
392	Emerging Constituents TF	220	74	33.52%
397ADMIN	WECAN Riverside	137	75	54.93%
398RELIE	DACI	80	29	35.63%
477-02	LESJWA - Administration	420	317	75.54%
477TMDL	LESJWA - TMDL Task Force	365	150	41.10%
504-401IMPLE	Prop 84 - Final Round Implementation	60	-	0.00%
504-401PA23	Prop 84 - Final Round PA23 Admin	165	3	1.52%
504-402PA22	Prop84 - Final Round PA22 Admin	270	6	2.13%
504-402RATES	Prop 84 - Final Round Water Rates	-	12	-100.00%
505-00	Prop1 - Capital Projects	150	82	54.50%
		58,880	27,327	46.41%


Note: Should be at 50% of budget for 6 months

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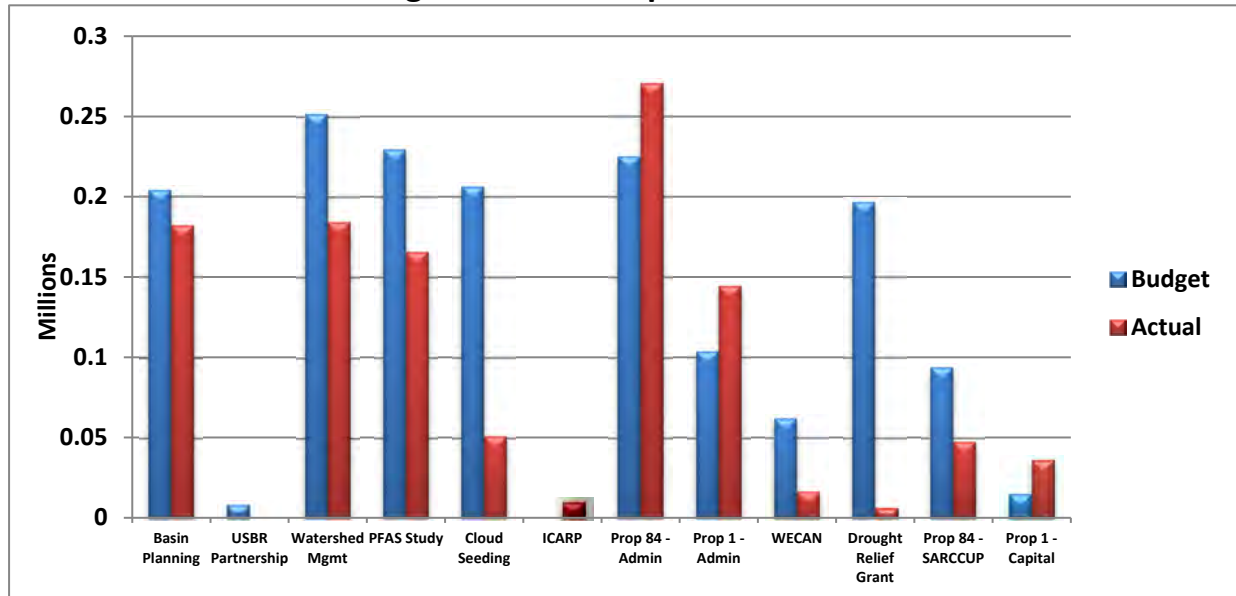
**Santa Ana Watershed Project Authority
PA25 - OWOW Fund - Financial Report
November 2024**

Staff comments provided on the last page are an integral part of this report.

Overview	This report highlights the agency's key financial indicators for the Fiscal Year-to-Date (FYTD) through November 2024 unless otherwise noted.
-----------------	---

Budget to Actual Expenses - OWOW			 Favorable	
	Annual Budget	FYTD Budget	FYTD Actual	Favorable (Unfavorable) Variance
Basin Planning General	\$539,791	\$204,080	\$181,895	\$22,185
USBR Partnership Studies	69,471	8,113	154	7,959
Watershed Mgmt. (OWOW)	904,428	251,845	184,401	67,444
PFAS Study	550,459	229,358	165,697	63,661
Cloud Seeding	494,707	206,128	51,122	155,006
ICARP	-	-	9,982	(9,982)
Prop 84 - Administration	539,894	224,956	270,567	(45,611)
Prop 1 – Administration	248,593	103,580	144,261	(40,681)
WECAN - Riverside	148,933	62,055	16,926	45,129
Drought Relief Grant DACI	471,466	196,444	6,737	189,707
Prop 84 – SARCCUP & Other	225,399	93,916	47,645	46,271
Prop 1 – Capital Projects	36,178	15,074	36,262	(21,188)
Total	\$4,229,319	\$1,595,549	\$1,115,649	\$479,900

Budget to Actual Expenses - OWOW



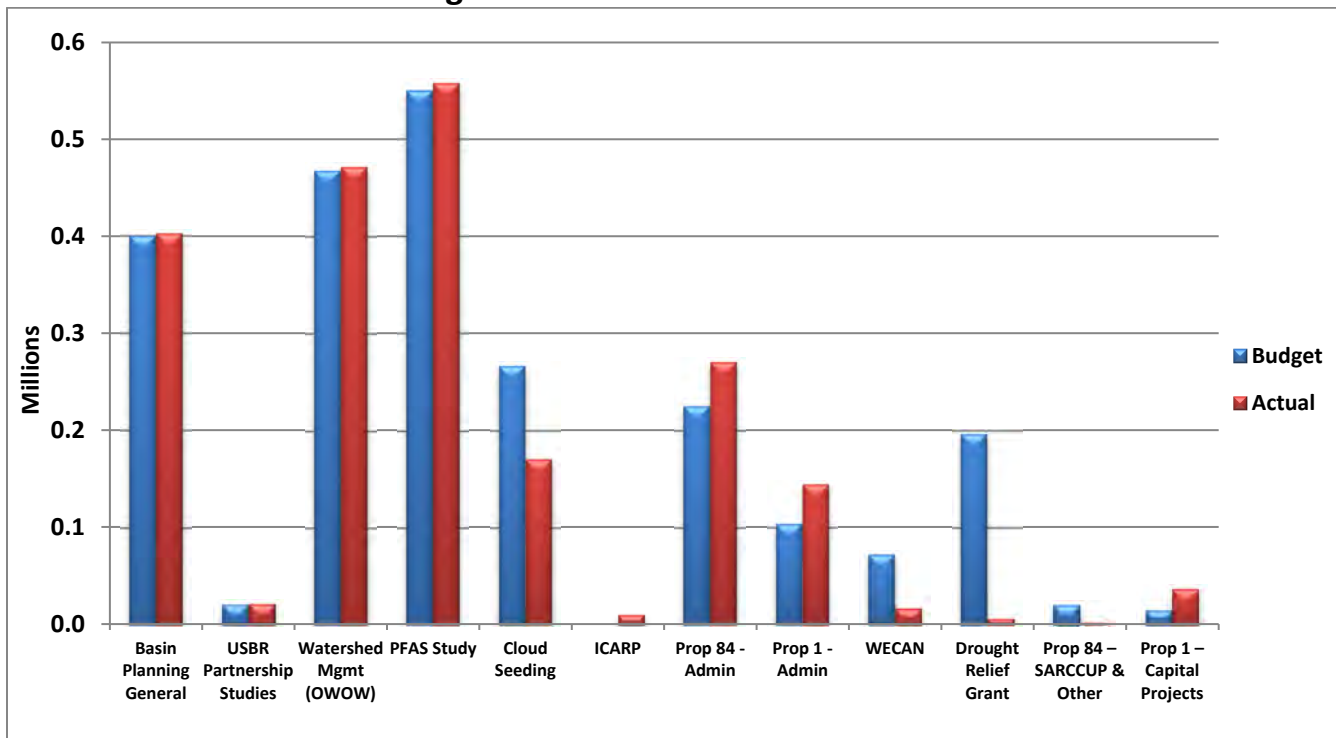
Budget to Actual Revenues - OWOW



Concern





	Annual Budget	FYTD Budget	FYTD Actual	Favorable (Unfavorable) Variance
Basin Planning General	\$450,000	\$400,000	\$402,416	\$2,416
USBR Partnership Studies	70,000	20,000	20,647	647
Watershed Mgmt. (OWOW)	767,900	467,900	471,785	3,885
PFAS Study	550,000	550,000	557,632	7,632
Cloud Seeding	402,500	266,584	170,297	(96,287)
ICARP	0	0	9,982	9,982
Prop 84 - Administration	539,894	224,956	270,567	45,611
Prop 1 – Administration	248,593	103,580	144,261	40,681
WECAN - Riverside	148,933	71,498	16,926	(54,572)
Drought Relief Grant - DACI	471,466	196,444	6,737	(189,707)
Prop 84 – SARCCUP & Other	47,908	19,962	2,534	(17,428)
Prop 1 – Capital Projects	36,178	15,074	36,262	21,188
Total	\$3,733,372	\$2,335,998	\$2,110,046	(\$225,952)

Budget to Actual Revenues - OWOW



Reserve Fund Balance	
	Amount
Basin Planning General	\$250,222
USBR Partnership Studies	68,187
Watershed Management (OWOW)	441,419
PFAS Study	800,235
Cloud Seeding	79,031
WECAN	11,054
Proposition 84 – SARCCUP & Other	656,040
Proposition 1 – Capital Projects	55,868
Total Reserves	\$2,362,056

Legend

<u>Compared to Budget</u>		
	Ahead or Favorable	Above +5% Favorable Revenue or Expense Variance
	On Track	+5% to -2% Variance
	Behind	-3% to -5% Variance
	Concern	Below -5% Variance

Staff Comments

For this month’s report, the item(s) explained below are either “behind”, a “concern”, or have changed significantly from the prior month.

1) Expenses are 30% below the budget. Revenues are 9.7% below the budget. It is anticipated that they will be on track before the end of the year.

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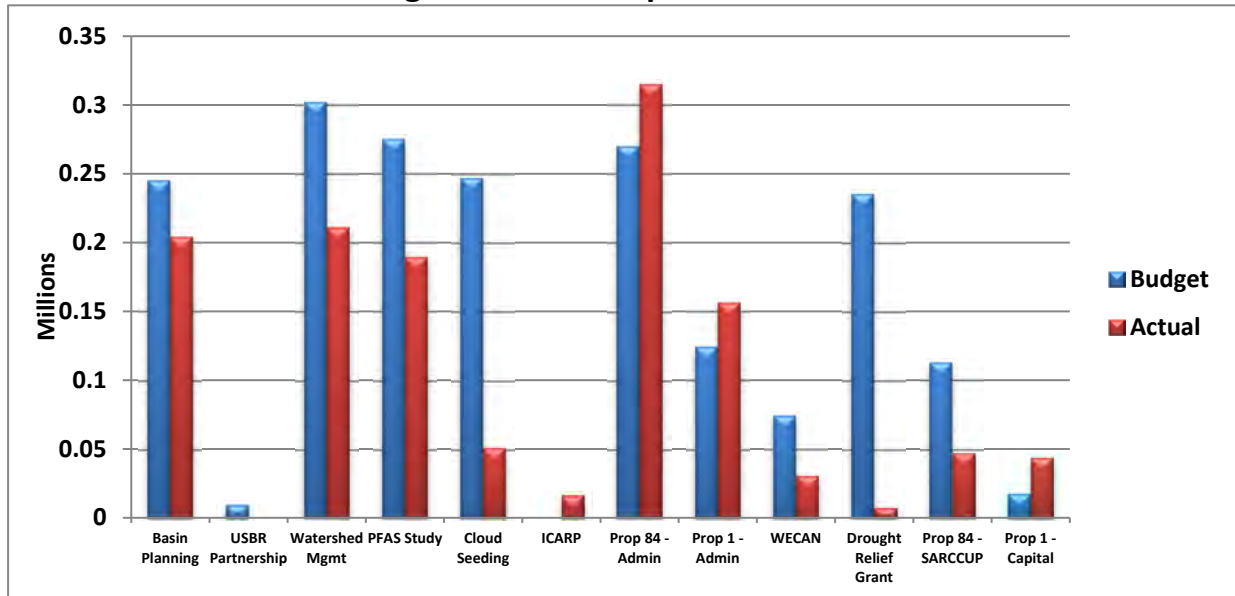
**Santa Ana Watershed Project Authority
PA25 - OWOW Fund - Financial Report
December 2024**

Staff comments provided on the last page are an integral part of this report.

Overview	This report highlights the agency's key financial indicators for the Fiscal Year-to-Date (FYTD) through December 2024 unless otherwise noted.
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Budget to Actual Expenses - OWOW	✔ Favorable			
	Annual Budget	FYTD Budget	FYTD Actual	Favorable (Unfavorable) Variance
Basin Planning General	\$539,791	\$244,896	\$204,015	\$40,881
USBR Partnership Studies	69,471	9,736	154	9,582
Watershed Mgmt. (OWOW)	904,428	302,214	211,204	91,010
PFAS Study	550,459	275,230	189,451	85,779
Cloud Seeding	494,707	247,354	51,316	196,038
ICARP	-	-	16,552	(16,552)
Prop 84 - Administration	539,894	269,947	315,188	(45,241)
Prop 1 – Administration	248,593	124,297	156,349	(32,052)
WECAN - Riverside	148,933	74,467	31,212	43,255
Drought Relief Grant DACI	471,466	235,733	7,828	227,905
Prop 84 – SARCCUP & Other	225,399	112,700	47,645	65,055
Prop 1 – Capital Projects	36,178	18,089	43,724	(25,635)
Total	\$4,229,319	\$1,914,663	\$1,274,638	\$640,025

Budget to Actual Expenses - OWOW



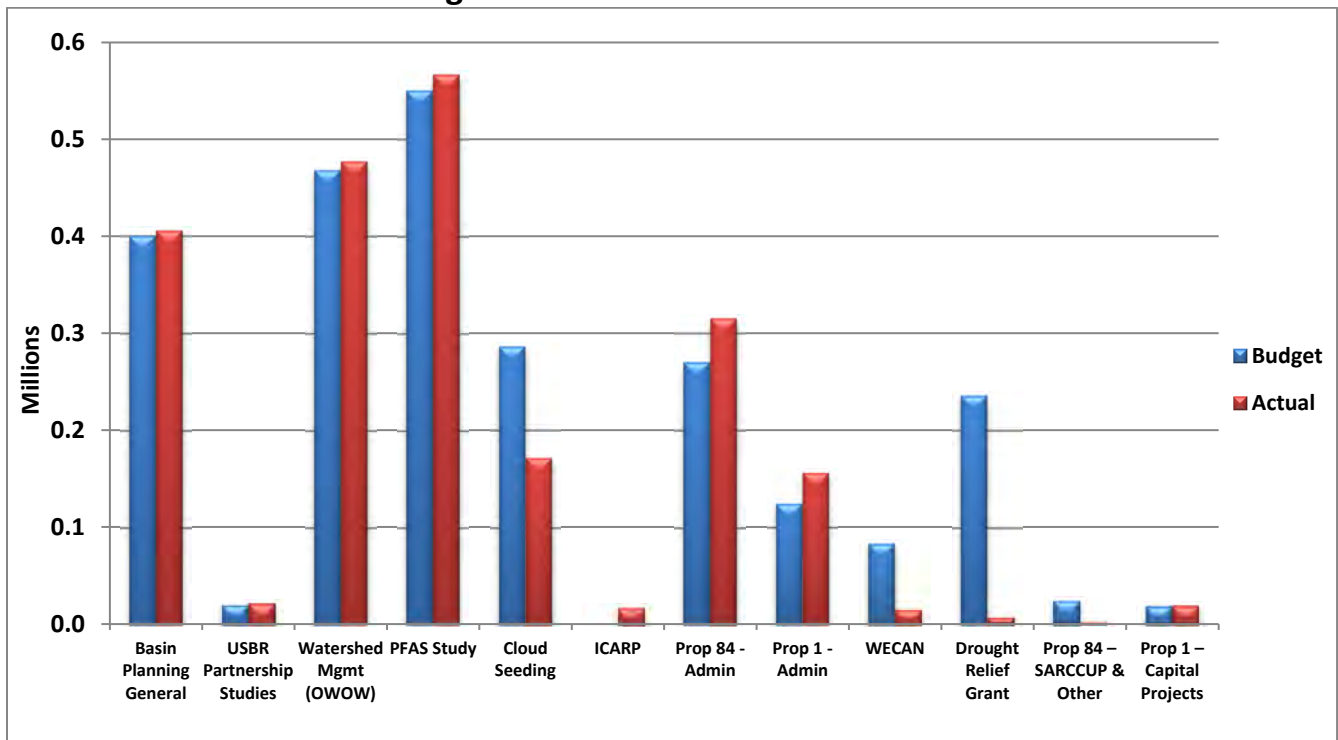
Budget to Actual Revenues - OWOW



Concern





	Annual Budget	FYTD Budget	FYTD Actual	Favorable (Unfavorable) Variance
Basin Planning General	\$450,000	\$400,000	\$405,371	\$5,371
USBR Partnership Studies	70,000	20,000	21,400	1,400
Watershed Mgmt. (OWOW)	767,900	467,900	476,828	8,928
PFAS Study	550,000	550,000	566,575	16,575
Cloud Seeding	402,500	286,000	171,266	(114,734)
ICARP	0	0	16,552	16,552
Prop 84 - Administration	539,894	269,947	315,189	45,242
Prop 1 – Administration	248,593	124,297	156,349	32,052
WECAN - Riverside	148,933	82,560	15,732	(66,828)
Drought Relief Grant - DACI	471,466	235,733	7,828	(227,905)
Prop 84 – SARCCUP & Other	47,908	23,954	2,534	(21,420)
Prop 1 – Capital Projects	36,178	18,089	18,724	635
Total	\$3,733,372	\$2,478,480	\$2,174,348	(\$304,132)

Budget to Actual Revenues - OWOW



Reserve Fund Balance	
	Amount
Basin Planning General	\$227,102
USBR Partnership Studies	68,187
Watershed Management (OWOW)	414,233
PFAS Study	737,888
Cloud Seeding	68,450
WECAN	9,624
Proposition 84 – SARCCUP & Other	649,976
Proposition 1 – Capital Projects	48,406
Total Reserves	\$2,223,866

Legend

<u>Compared to Budget</u>		
	Ahead or Favorable	Above +5% Favorable Revenue or Expense Variance
	On Track	+5% to -2% Variance
	Behind	-3% to -5% Variance
	Concern	Below -5% Variance

Staff Comments

For this month’s report, the item(s) explained below are either “behind”, a “concern”, or have changed significantly from the prior month.


1) Expenses are 33.4% below the budget. Revenues are 12.3% below the budget. It is anticipated that they will be on track before the end of the year.

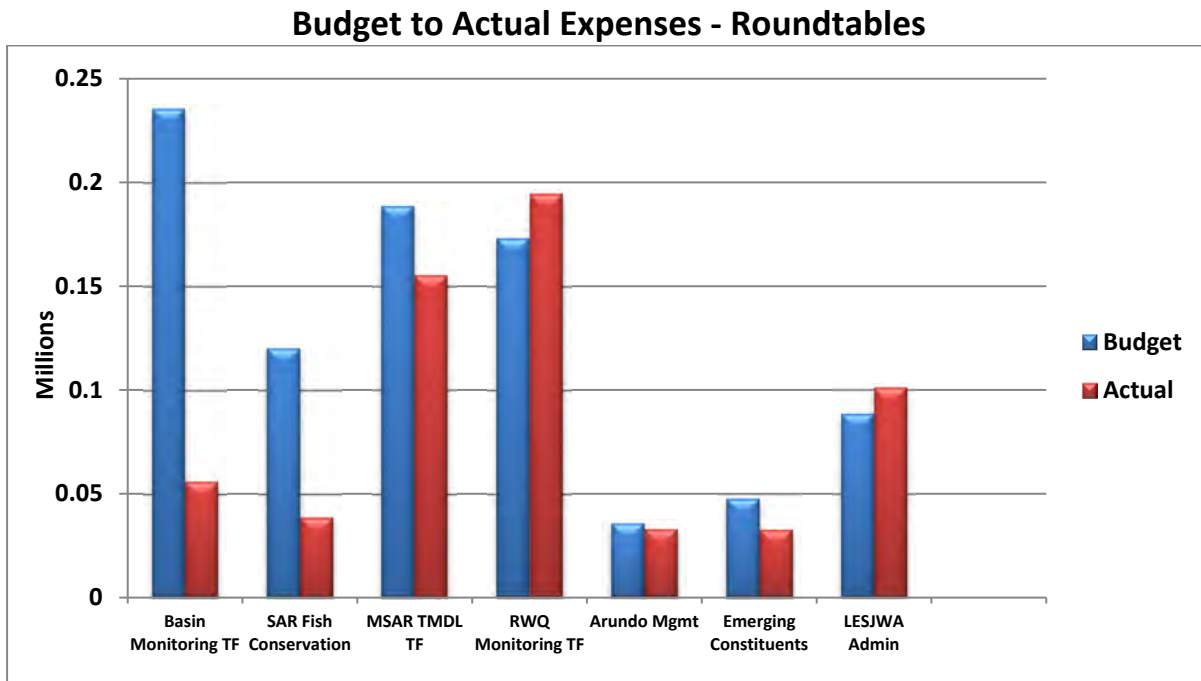
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**Santa Ana Watershed Project Authority
PA26 - Roundtable Fund - Financial Report
November 2024**

Staff comments provided on the last page are an integral part of this report.

Overview	This report highlights the agency's key financial indicators for the Fiscal Year-to-Date (FYTD) through November 2024 unless otherwise noted.
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Budget to Actual Expenses - Roundtables				 Favorable
	Annual Budget	FYTD Budget	FYTD Actual	Favorable (Unfavorable) Variance
Basin Monitoring TF	\$565,988	\$235,828	\$56,044	\$179,784
SAR Fish Conservation	288,541	120,225	38,653	81,572
MSAR TMDL TF	284,664	188,796	155,300	33,496
RWQ Monitoring TF	415,702	173,209	194,767	(21,558)
Arundo Mgmt.	85,780	35,742	32,953	2,789
Emerging Constituents	114,303	47,626	32,562	15,064
LESJWA Admin	198,285	88,452	101,069	(12,617)
Total	\$1,953,263	\$889,878	\$611,348	\$278,532



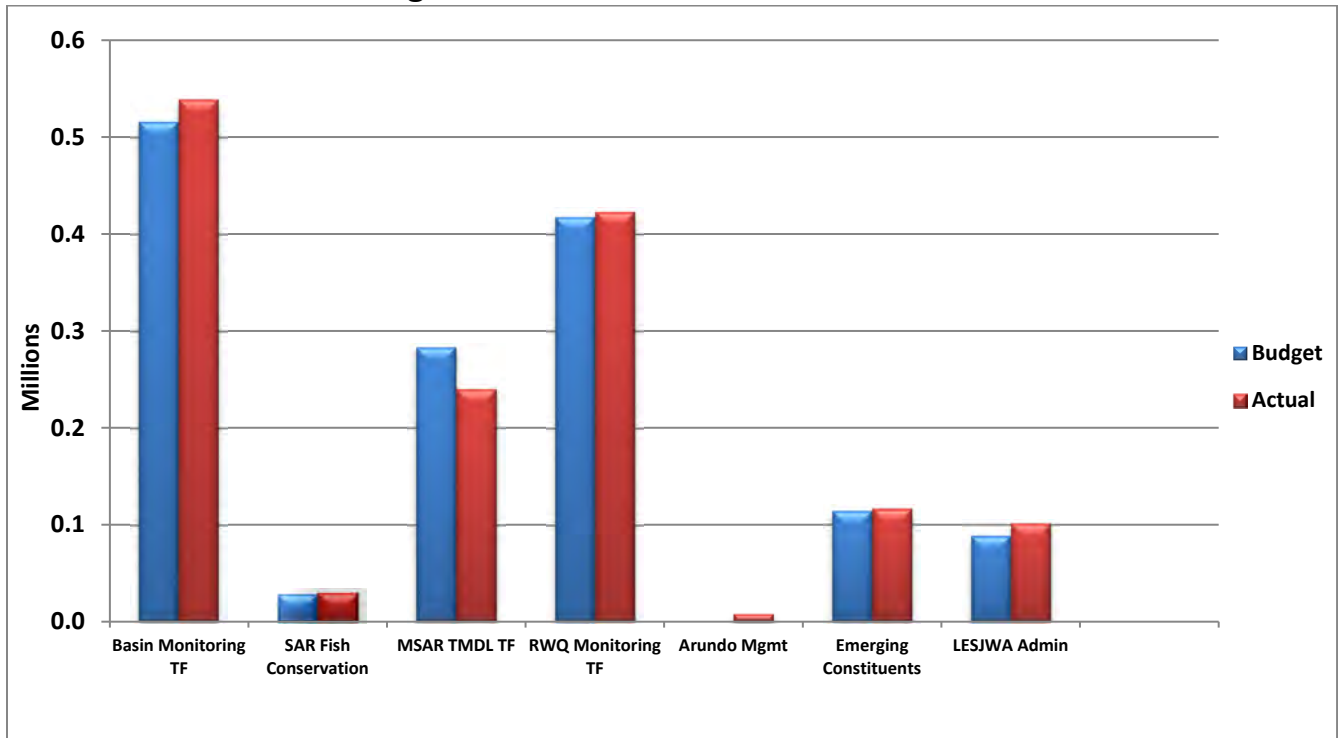
Budget to Actual Revenues - Roundtables



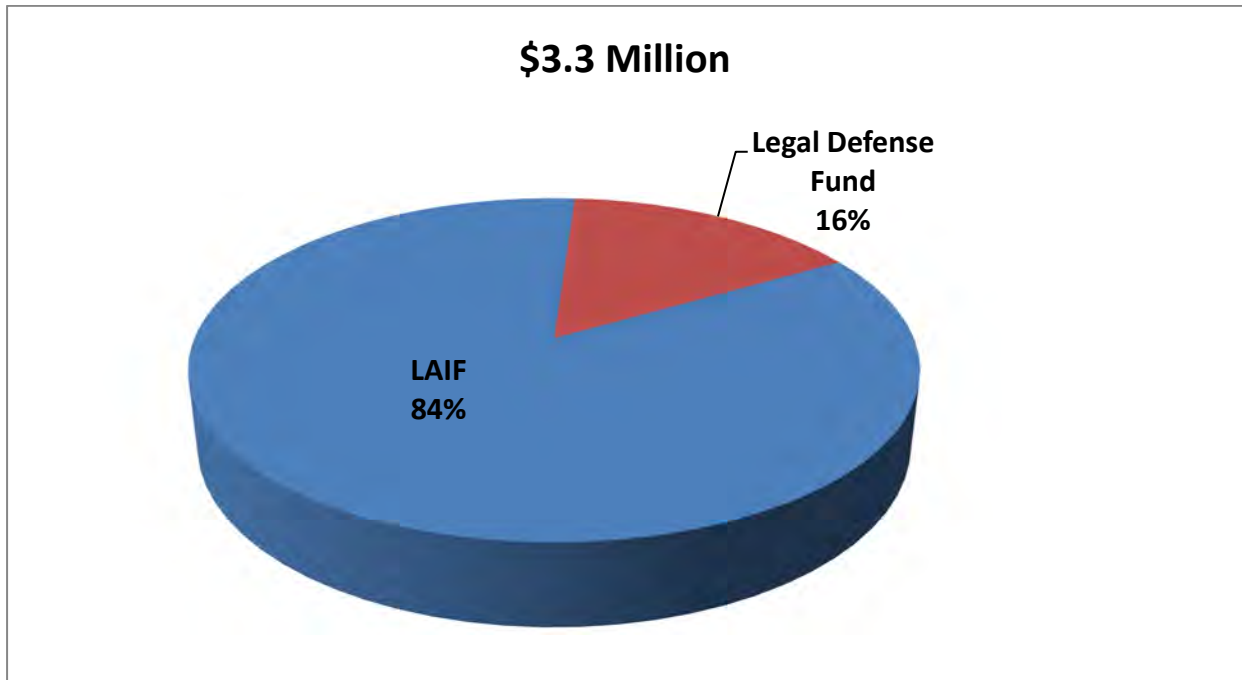
On Track

	Annual Budget	FYTD Budget	FYTD Actual	Favorable (Unfavorable) Variance
Basin Monitoring TF	\$516,000	\$516,000	\$538,969	\$22,969
SAR Fish Conservation	279,000	29,000	30,257	1,257
MSAR TMDL TF	282,820	282,820	239,573	(43,247)
RWQ Monitoring TF	417,625	417,625	422,942	5,317
Arundo Mgmt.	889,800	-	8,039	8,039
Emerging Constituents	114,000	114,000	116,070	2,070
LESJWA Admin	198,285	88,452	101,069	12,617
Total	\$2,697,530	\$1,447,897	\$1,456,919	\$9,022

Budget to Actual Revenues - Roundtables



Total Cash & Investments







Reserve Fund Balance

	Amount
Basin Monitoring Task Force	\$1,100,177
SAR Fish Conservation	102,999
Middle SAR TMDL Task Force	423,252
Regional Water Quality Monitoring Task Force	184,230
Arundo Management & Habitat	748,372
Emerging Constituents Task Force	247,283
Legal Defense Fund	517,714
Total Reserves	\$3,324,027

Legend

Compared to Budget

	Ahead or Favorable	Above +5% Favorable Revenue or Expense Variance
	On Track	+5% to -2% Variance
	Behind	-3% to -5% Variance
	Concern	Below -5% Variance

Staff Comments


For this month's report, the item(s) explained below are either "behind", a "concern", or have changed significantly from the prior month.

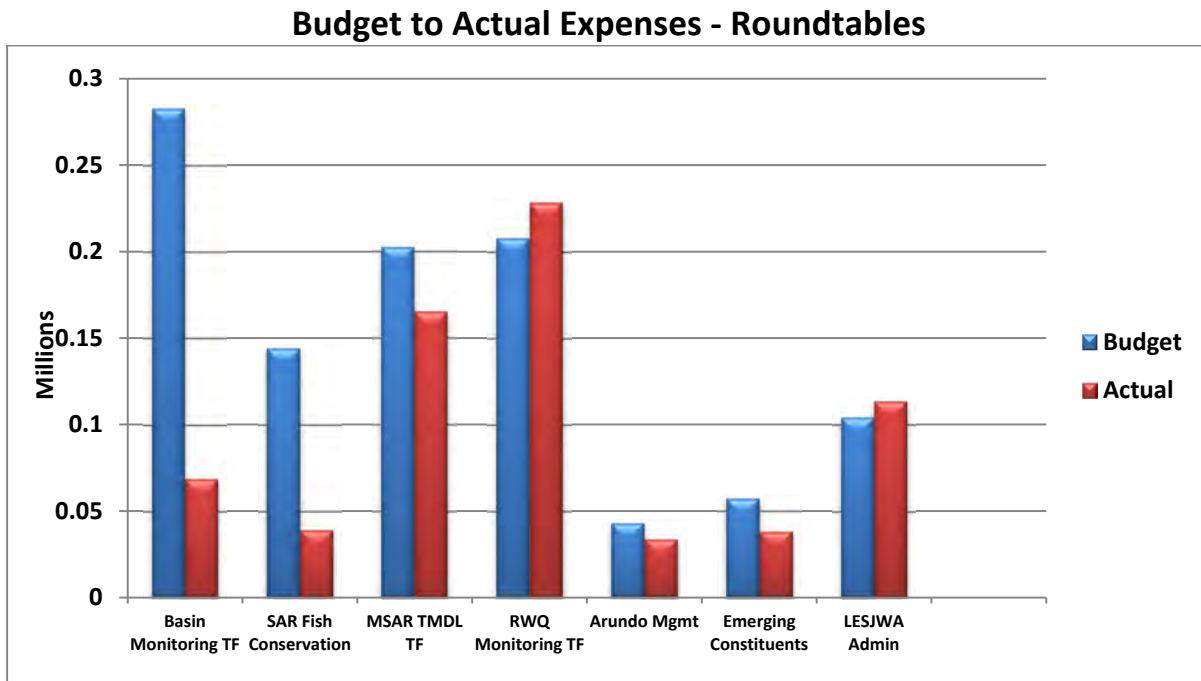
- 1) Expenses and revenues are favorable to the budget.

**Santa Ana Watershed Project Authority
PA26 - Roundtable Fund - Financial Report
December 2024**

Staff comments provided on the last page are an integral part of this report.

Overview	This report highlights the agency's key financial indicators for the Fiscal Year-to-Date (FYTD) through December 2024 unless otherwise noted.
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Budget to Actual Expenses - Roundtables				 Favorable
	Annual Budget	FYTD Budget	FYTD Actual	Favorable (Unfavorable) Variance
Basin Monitoring TF	\$565,988	\$282,994	\$68,759	\$214,235
SAR Fish Conservation	288,541	144,271	39,130	105,141
MSAR TMDL TF	284,664	202,492	165,251	37,241
RWQ Monitoring TF	415,702	207,851	228,492	(20,641)
Arundo Mgmt.	85,780	42,890	33,744	9,146
Emerging Constituents	114,303	57,152	38,002	19,150
LESJWA Admin	198,285	104,142	113,533	(9,391)
Total	\$1,953,263	\$1,041,792	\$686,911	\$354,881



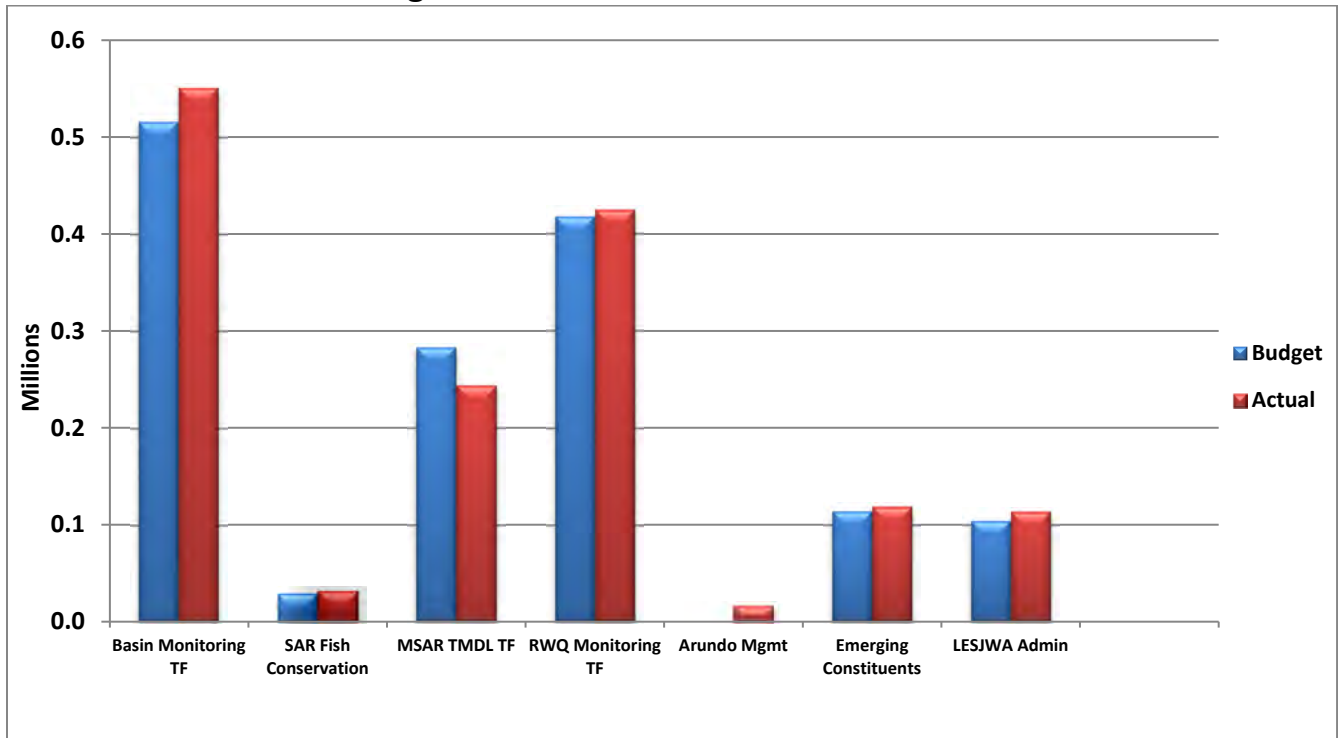
Budget to Actual Revenues - Roundtables



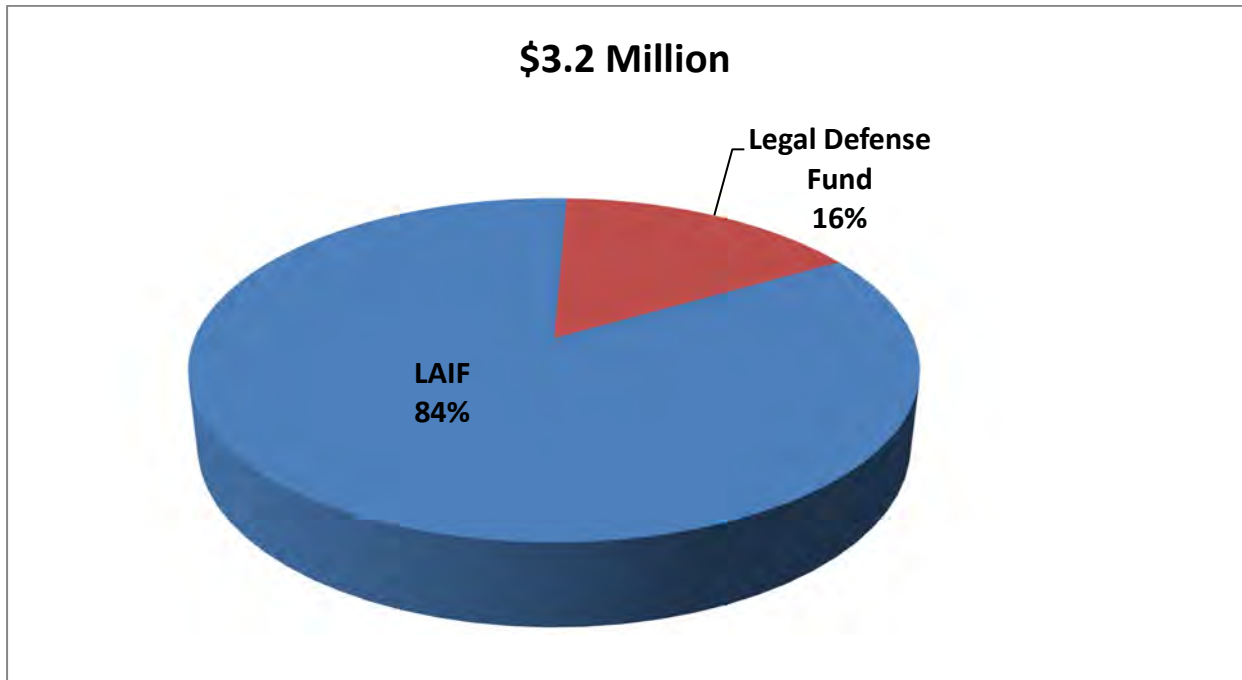
Favorable

	Annual Budget	FYTD Budget	FYTD Actual	Favorable (Unfavorable) Variance
Basin Monitoring TF	\$516,000	\$516,000	\$551,169	\$35,169
SAR Fish Conservation	279,000	29,000	31,456	2,456
MSAR TMDL TF	282,820	282,820	243,640	(39,180)
RWQ Monitoring TF	417,625	417,625	424,550	6,925
Arundo Mgmt.	889,800	-	16,264	16,264
Emerging Constituents	114,000	114,000	118,827	4,827
LESJWA Admin	198,285	104,143	113,533	9,390
Total	\$2,697,530	\$1,463,588	\$1,499,439	\$35,851

Budget to Actual Revenues - Roundtables



Total Cash & Investments



Reserve Fund Balance

	Amount
Basin Monitoring Task Force	\$1,093,497
SAR Fish Conservation	102,439
Middle SAR TMDL Task Force	413,867
Regional Water Quality Monitoring Task Force	148,127
Arundo Management & Habitat	726,661
Emerging Constituents Task Force	243,078
Legal Defense Fund	519,612
Total Reserves	\$3,247,281

Legend

Compared to Budget



Ahead or Favorable

Above +5% Favorable Revenue or Expense Variance



On Track

+5% to -2% Variance



Behind

-3% to -5% Variance



Concern

Below -5% Variance

Staff Comments

For this month's report, the item(s) explained below are either "behind", a "concern", or have changed significantly from the prior month.

- 1) Expenses and revenues are favorable to the budget.



February 10, 2025

To: Santa Ana Watershed Project Authority

From: Michael Boccadoro
Beth Olhasso

RE: January Report

Overview:

Weeks of no precipitation in Northern California, and months of no precipitation in Southern California, seems to be coming to an end with strong storms hitting both ends of the state. Electronic snow survey data shows the statewide snowpack down from 131 percent of average for this time of year at the end of December, to 81 percent of normal at the beginning of February, with just 56 percent of April 1 averages on the ground. As the snow is melting, much is making its way into storage, allowing reservoirs to increase capacity over the past month, with Oroville even opening its spillway. Lake Oroville is sitting at 84 percent capacity, 136 percent of normal; Lake Shasta is sitting at 88 percent of capacity, 130 percent of average; and with the pumps running full throttle, San Luis Reservoir is at 78 percent of capacity, 102 percent average for this time of year.

The California Water Commission has released their 2025 Strategic Plan. They plan to focus on five main initiatives: Implement the Water Storage Investment Program (WSIP) to Achieve Public Benefits; Support Smart Water Management through Outreach, Engagement, and a Commitment to Equity; Utilize Public Forum to Explore Pressing Water Management Issues; Advise the Department of Water Resources (DWR) to Support Implementation of DWR's Strategic Plan; and Exercise Statutory Authorities to Ensure Transparency, Accountability, and Sound Public Processes.

Prior to the end of the Biden Administration, the California Air Resources Board withdrew their request for Clean Air Act waiver for the state's Advanced Clean Fleets regulations. Though CARB has recently said that they believe they have the authority to implement and enforce the state and local government clean fleets rule. They plan to release further rules for state and local governments in March.

The Governor released his \$322.2 billion 2025-26 State Budget. The budget was proposed to be balanced, but with new state spending on wildfire recovery, it is unclear how the budget will end up come final adoption. The \$2.5 billion the Governor has proposed for wildfire recovery is proposed to come out of the Emergency Fund, not the General Fund. The governor also proposed about \$1 billion in Proposition 4 allocations for water projects.

Legislators are back in Sacramento. There is a slow trickle of bills so far, but 2025 looks to be a busy year legislatively for water, wastewater, and recycled water. Legislation is expected on low-income rate assistance, recycled water, biosolids, PFAS, floodflows and, very recently, ensuring adequate water flows during fire events.

Santa Ana Watershed Project Authority Status Report – January 2025

Water Supply Conditions

Recent precipitation in Northern California is a welcome sight for water managers, after a month-long dry spell. Statewide snowpack shrank by over half in a month, sitting at just 65 percent of average for this time of year before a recent storm increased the snowpack to 81 percent of normal. The runoff is, however, getting captured. Lake Oroville is at 136 percent of average, 84 percent capacity; Shasta is at 130 percent average, 88 percent capacity; San Luis Reservoir is at 102 percent average, and 78 percent capacity. As could be expected, drought conditions are spreading throughout the state. Hopefully the storm forecasted for Southern CA will help ease some of the drought conditions.

January 21, 2025



January 23, 2024



California Water Commission Releases 2025 Strategic Plan

The California Water Commission's 2025 Strategic Plan outlines five key goals to guide its efforts over the next five years:

1. **Implement the Water Storage Investment Program (WSIP) to Achieve Public Benefits:** The Commission aims to effectively manage the WSIP, ensuring that funded projects deliver anticipated public benefits, such as enhanced water supply reliability and ecosystem improvements.
2. **Support Smart Water Management through Outreach, Engagement, and a Commitment to Equity:** Emphasizing inclusive engagement, the Commission plans to proactively involve diverse and underrepresented communities in water management discussions, integrating equity considerations into all aspects of its work.

3. **Utilize Public Forum to Explore Pressing Water Management Issues:** Leveraging its role as a public forum, the Commission intends to facilitate discussions on critical water challenges, providing a platform for diverse perspectives and collaborative problem-solving.
4. **Advise the Department of Water Resources (DWR) to Support Implementation of DWR’s Strategic Plan:** The Commission will offer guidance to the DWR, aligning its advisory role to support the execution of DWR's strategic objectives and initiatives.
5. **Exercise Statutory Authorities to Ensure Transparency, Accountability, and Sound Public Processes:** Committed to good governance, the Commission plans to uphold transparency and accountability in its operations, ensuring that public processes are conducted with integrity and openness.

CARB Withdraws Waiver Request for Advanced Clean Fleets Rule

As discussed in previous reports, California Air Resources Board (CARB) had asked U.S. EPA for waivers under the Clean Air Act (CAA) to approve several regulations including the Advanced Clean Fleets (ACF), which would require agencies to transition to electric trucks and vehicles.

In the waning days of the Biden Administration, CARB decided to pull their waiver request. While the Biden Administration was likely eager to approve such a request, many believe that CARB and EPA didn’t have enough time to build a case that would stand up in court. Unwilling to lose a court challenge, CARB thought retreat was best.

Prevailing wisdom knows that California and CARB aren’t likely to walk away from their clean transportation and greenhouse gas emissions reductions goals. While official plans haven’t been announced, the CARB board did say that they believe they have the authority and to plan to “implement and enforce” state and local government fleet regulations. They are moving forward with a plan to be released in March. Statewide associations are working to coordinate a response and action plan.

SWRCB Initiates Urban Stormwater Policy Process

Building on the SWRCB Strategy to Optimize Resource Management for Stormwater (STORMS) project, the State Board aims to establish a State Policy for Water Quality Control for Urban Stormwater Infiltration. The Policy will:

- Encourage urban stormwater infiltration to enhance groundwater recharge and local water supply resilience.
- Provide greater protection for surface water quality.
- Promote multi-benefit community projects.
- Prohibit infiltration in conditions where groundwater beneficial uses may be impacted.

The goal of the Policy is to

- Offer science-based guidance on best practices for urban stormwater infiltration.
- Ensure protection of groundwater quality and beneficial uses.
- Identify data gaps and outline next steps to address them.
- Protect surface water quality by diverting stormwater runoff for infiltration.
- Resolve regulatory inconsistencies in permits and local ordinances, reducing confusion about implementation.

There will be a series of workshops (mostly virtual) in February to hear the staff proposal.

Governor Proposes 2025-26 Budget

On January 10, Governor Newsom released his proposed 2025-26 Budget. The \$322.2 billion budget is proposed to be “balanced.” The budget includes about \$1 billion from Proposition 4 in categories such as water recycling, integrated regional water management.

The budget was crafted before the wildfires in Los Angeles. While the Special Session emergency wildfire recovery measures do not appear to affect general fund or bond spending, it is unclear if any measures proposed by legislators could have a significant impact on the budget. The Legislature has yet to publicly discuss any potential impacts if the state has to play a financial role to cover losses from the catastrophic wildfires.

The long budget process will start in sub committees in February/March and continue through the July 1 start of the fiscal year.

Legislative Update

Legislators have returned to Sacramento to start the first year of the 2025-26 legislative session. Committee memberships have been announced and bills have started to get introduced.

Key Committee Leadership:

Key Committee Leadership

Senate Natural Resources and Water:

Monique Limón (D-Santa Barbara), Chair

Kelly Seyarto (R-Murrieta), Vice-Chair

Senate Environmental Quality:

Catherine Blakespear (D-Encinitas), Chair

Senate Budget Subcommittee #2 on Resources, Environmental Protection and Energy

Benjamin Allen (D-Santa Monica), Chair

Assembly Water, Parks & Wildlife

Diane Papan (D-San Mateo), Chair

Assembly Environmental Safety & Toxic Materials

Damon Connolly (D-Marin), Chair

Assembly Budget Sub Committee 4 on Resources, Transportation and Climate Change

Steve Bennett (D-Oxnard), Chair

2025 looks to be a busy year for the water, wastewater, and recycled water community in terms of legislation.

Low-Income Rate Assistance: The environmental community is likely to re-introduce some form of SB 1255 (Durazo) that would have required establishment of low-income rate assistance programs at all retail water agencies. To counter this move, the California Municipal Utilities Association is planning to introduce their own proposal for low-income rate assistance.

Water Supply: California Municipal Utilities Association and Western Municipal Water District have reintroduced SB 366 (Caballero), their legislation to add new requirements into the CA Water Plan to set volumetric targets for new water supply as **SB 72**. They believe they have removed the concerns of the SWRCB, which was the reason the bill was vetoed last session.

Recycled Water: WaterReuse CA is working with Senator Jerry McNerney (D, Pleasanton) on SB 31, legislation to make some long-overdue updates to Title 22 of the CA Code of Regulations. SAWPA member agencies have been instrumental in helping develop the legislation that would, among other things, codify how an “unauthorized discharge” of recycled water is treated by Regional Boards.

Biosolids: There is speculation of an effort to address PFAS in biosolids by the environmental community. Through CASA, SAWPA member agencies are coordinating a response

PFAS: The CA Association of Sanitation Agencies is going to reintroduce their PFAS source control bill that would ban the use of any intentionally added PFAS to products. The bill hit a roadblock with the CA Manufacturers and Technology Association who worked to load costs into the bill to get it held in Appropriations Committee.

There is also an effort by the CA League of Cities, and co-sponsored by ACWA, to create a PFAS mitigation fund, though no funding source has been identified.

Floodflows: It is very likely Senator Caballero will reintroduce a version of SB 1390, especially after the emphasis the Governor put on capturing floodflow diversions for groundwater recharge at his recent press conference in Colusa County.

Of course, there will be any number of other issues that get introduced before the February 21 bill introduction deadline. WCA will work with SAWPA staff and member agencies to identify key measures for board consideration.

Water Supplies for Wildfire Fighting: There has been significant discussion about water system design and if municipal water systems should be better engineered to tackle the types of wildfire/wind scenarios that were present in early January. Assemblymember Bennett has introduced a bill that pertains only to Ventura County, but it is rumored that he is also going to introduce a bill that would have statewide impacts.

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General Manager's Report

February 2025



Western Water Tour at SAWPA

This past month, staff hosted Western Water Leaders: Follow the Drops Tour. Western Water brought a group of community leaders to learn about different parts of the treatment process. The tour ended with a presentation by General Manager Jeff Mosher on Cloud Seeding.

The 9th Annual Holiday Posada Event

SAWPA staff attended the 9th Annual Holiday Posada held by Riverside Community Health Foundation in Patterson Park in Eastside Riverside for our WECAN program. Approximately 200 residents visited our booth to learn about lawn turf removal and replacement with a custom landscape comprised of drought-tolerant, California friendly native plants.



Reach IV-D Updates

This past month, Engineering and Operations continued to monitor the contractor for Lennar Homes and Jurupa Valley. The Lennar Homes contractor is installing storm drains, water, and sewer lines adjacent to Brine Line in Rialto. The Jurupa Valley contractor is resurfacing streets. CCTV inspections continue to ensure uninterrupted service.

Security Enhancement Updates

IT Staff is working with Operations to gather quotes and information for installing new security cameras for the parking lot. This investment is an important step in enhancing our current security measures to ensure that SAWPA resources and staff are protected.



Santa Ana River Science Symposium Presentation

SAWPA staff presented at the annual Santa Ana River Science Symposium hosted by San Bernardino Valley Municipal Water District. The presentation focused on SAWPA and the Inland Empire Resource Conservation District's (IERCD) partnership to implement the Arundo Donax Removal in the Santa Ana River Basin Headwaters Project. IERCD has done 10,000+ acres of surveys to determine the most upstream occurrences of Arundo in the Watershed.

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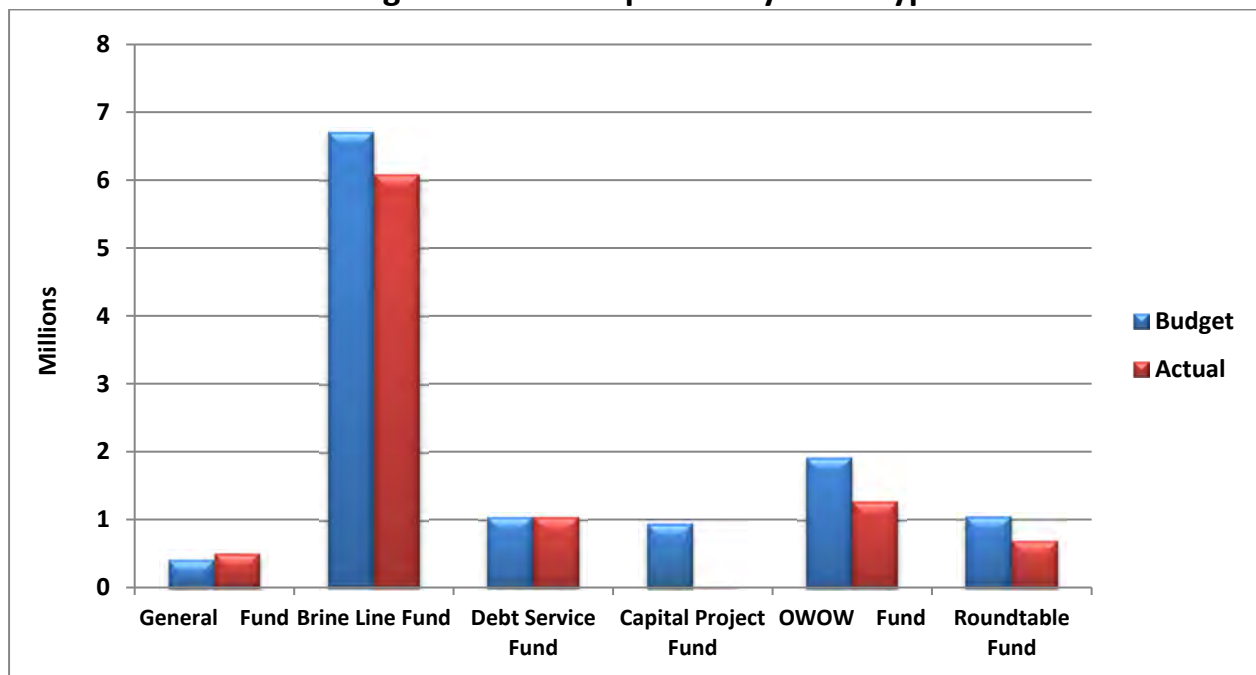
**Santa Ana Watershed Project Authority
Executive Financial Information Report
December 2024**

Staff comments provided on the last page are an integral part of this report.

Overview	This report highlights the agency's key financial indicators for the Fiscal Year-to-Date (FYTD) December 2024 unless otherwise noted.
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Budget to Actual Expenses by Fund Type	✔ Favorable			
	Annual Budget	FYTD Budget	FYTD Actual	Favorable (Unfavorable) Variance
General Fund	\$712,910	\$406,455	\$493,903	(\$87,448)
Brine Line Enterprise	11,368,636	6,712,214	6,087,453	624,761
Debt Service Fund	1,709,476	1,044,273	1,044,273	-
Capital Project Fund	1,870,013	935,007	13,865	921,142
OWOW Fund	4,229,319	1,914,663	1,274,638	640,025
Roundtable Fund	1,953,263	1,041,792	686,911	354,881
Total	\$21,843,617	\$12,054,404	\$9,601,043	\$2,453,361

Budget to Actual Expenses by Fund Type



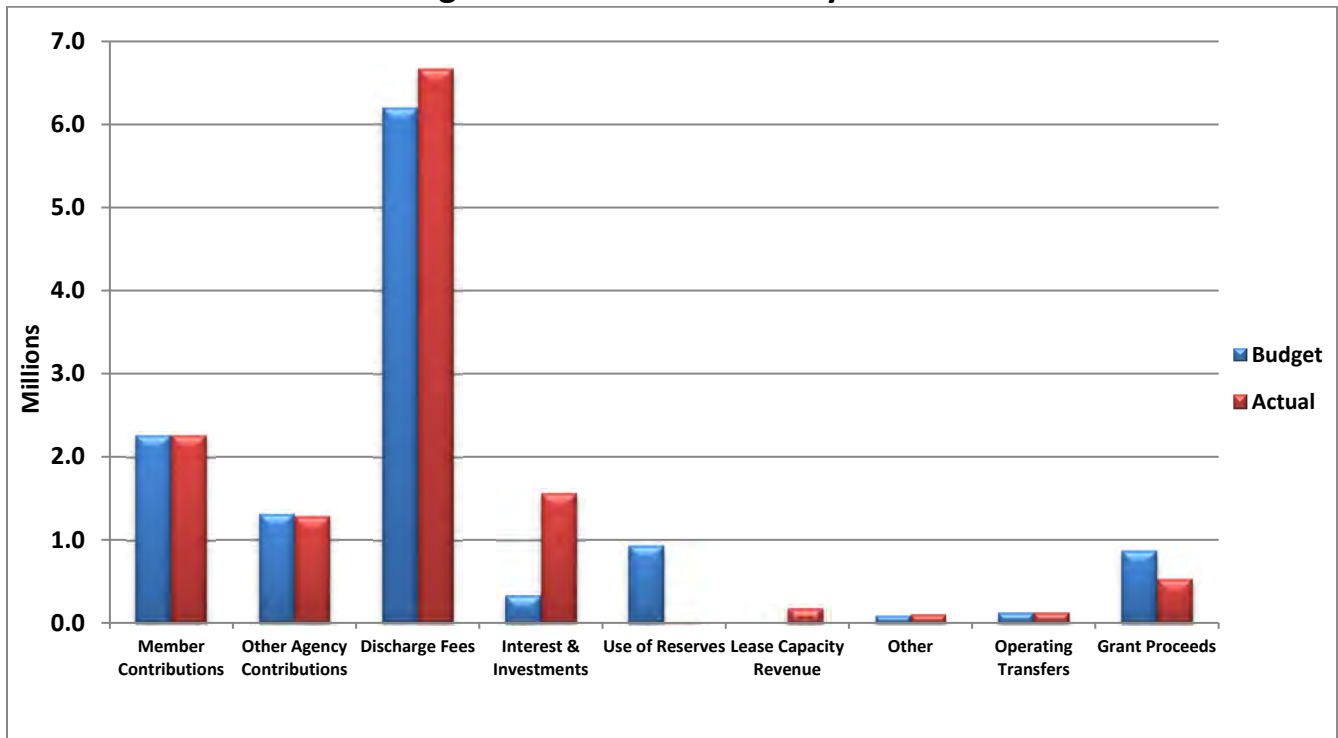
Budget to Actual Revenues by Source



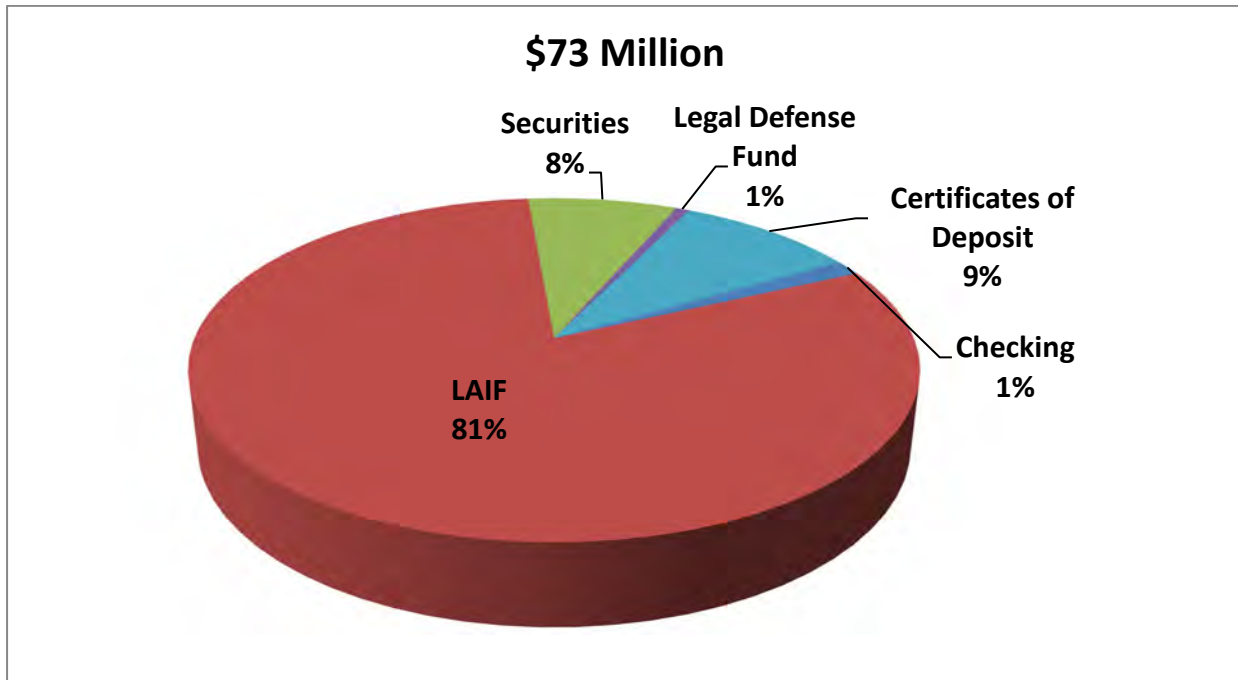
On Track

	Annual Budget	FYTD Budget	FYTD Actual	Favorable (Unfavorable) Variance
Member Contributions	\$2,261,410	\$2,261,410	\$2,261,410	\$-
Other Agency Contributions	1,324,212	1,308,025	1,279,264	(28,761)
Discharge Fees	12,405,112	6,197,157	6,664,490	467,333
Interest & Investments	673,000	336,500	1,561,844	1,225,344
Use of Reserves	1,870,013	935,007	13,865	(921,142)
Lease Capacity Revenue	-	-	174,543	174,543
Other	1,078,085	94,143	104,708	10,565
Operating Transfers	120,320	120,320	120,320	-
Grant Proceeds	2,359,785	871,080	533,948	(337,132)
Total	\$22,091,937	\$12,123,642	\$12,714,392	\$590,750

Budget to Actual Revenues by Source



Total Cash & Investments







Reserve Fund Balance

	Amount
General Fund	\$1,765,293
Building Fund	786,011
OWOW Fund	2,223,866
Roundtable Fund	3,247,281
Debt Retirement	3,043,856
Pipeline Replacement & Capital Investment	37,229,471
OC San Pipeline Rehabilitation	3,068,481
Pipeline Capacity Management	12,944,921
OC San Future Treatment & Disposal Capacity	1,981,909
Brine Line Operating Reserve	2,312,437
Brine Line Operating Cash	4,367,742
Total Reserves	\$72,971,268

Legend

Compared to Budget

	Ahead or Favorable	Above +5% Favorable Revenue or Expense Variance
	On Track	+5% to -2% Variance
	Behind	-3% to -5% Variance
	Concern	Below -5% Variance

Staff Comments

For this month's report, the item(s) explained below are either "behind", a "concern", or have changed significantly from the prior month.

Both expenses and revenues are favorable.
