



SAWPA

SANTA ANA WATERSHED PROJECT AUTHORITY
11615 Sterling Avenue, Riverside, California 92503 • (951) 354-4220

Meeting Access Via Computer (Zoom):	Meeting Access Via Telephone:
<ul style="list-style-type: none"> https://sawpa.zoom.us/j/88261801261 	<ul style="list-style-type: none"> 1 (669) 900-6833
<ul style="list-style-type: none"> Meeting ID: 882 6180 1261 	<ul style="list-style-type: none"> Meeting ID: 882 6180 1261

This meeting will be conducted in person at the address listed above. As a convenience, members of the public may also participate virtually using one of the options set forth above. Any member of the public may listen to the meeting or make comments to the Commission using the call-in number or Zoom link above. 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.

REGULAR COMMISSION MEETING TUESDAY, JULY 2, 2024 – 9:30 A.M.

AGENDA

1. CALL TO ORDER/PLEDGE OF ALLEGIANCE (Bruce Whitaker, Chair)

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, July 1, 2024. 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: JUNE 18, 20247
Recommendation: Approve as posted.

6. NEW BUSINESS

- A. SAWPA BUILDING – LOBBY REMODEL (SECURITY IMPROVEMENTS) AND ADA UPGRADES PROJECT (CM#2024.36).....11

Presenter: David Ruhl

Recommendation: That the Commission:

1. Direct the General Manager to file a Notice of Exemption for the Lobby Remodel and ADA Upgrades project with the Riverside County Clerk's Office; and
2. Direct the General Manager to issue a Notice Inviting Bids, upon completion of the Final Plans and Specifications, for the Construction of the Lobby Remodel and ADA Upgrades Project.

- B. **LAKE ELSINORE AND CANYON LAKE TMDL TASK FORCE UPDATE (CM#2024.37)27**
Presenter: Rick Whetsel
Recommendation: Receive and file.

7. INFORMATIONAL REPORTS

Recommendation: Receive for information.

- A. **GENERAL MANAGER REPORT63**
Presenter: Jeff Mosher
- B. **COMMUNICATIONS REPORT69**
Presenter: Jeff Mosher
- C. **CHAIR’S COMMENTS/REPORT**
- D. **COMMISSIONERS’ COMMENTS**
- E. **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 June 27, 2024, 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.

2024 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 1/2/24 Commission Workshop [cancelled] 1/16/24 Regular Commission Meeting	February 2/6/24 Commission Workshop 2/20/24 Regular Commission Meeting
March 3/5/24 Commission Workshop [cancelled] 3/19/24 Regular Commission Meeting	April 4/2/24 Commission Workshop 4/16/24 Regular Commission Meeting [cancelled]
May 5/7/24 Commission Workshop [cancelled] 5/21/24 Regular Commission Meeting 5/7 – 5/9/24 ACWA Spring Conference, Sacramento, CA	June 6/4/24 Commission Workshop 6/18/24 Regular Commission Meeting
July 7/2/24 Commission Workshop 7/16/24 Regular Commission Meeting	August 8/6/24 Commission Workshop 8/20/24 Regular Commission Meeting
September 9/3/24 Commission Workshop 9/17/24 Regular Commission Meeting	October 10/1/24 Commission Workshop 10/15/24 Regular Commission Meeting
November 11/5/24 Commission Workshop 11/19/24 Regular Commission Meeting	December 12/3/24 Commission Workshop 12/17/24 Regular Commission Meeting 12/3 – 12/5/24 ACWA Fall Conference, Palm Springs, 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: JULY 2024

DATE	TIME	MEETING DESCRIPTION	LOCATION
7/2/24	10:00 AM	PA 24 Committee Mtg	Hybrid (SAWPA & Virtual/Teleconference)
7/22/24	1:00 PM	Lake Elsinore/Canyon Lake TMDL Task Force Mtg	Virtual/Teleconference
7/24/24	1:00 PM	Basin Monitoring Program Task Force Mtg	Virtual/Teleconference
7/25/24	11:00 AM	OWOW Steering Committee Mtg	Hybrid (SAWPA & Virtual/Teleconference)

MONTH OF: AUGUST 2024

DATE	TIME	MEETING DESCRIPTION	LOCATION
8/6/24	8:30 AM	PA 23 Committee Mtg	Hybrid (SAWPA & Virtual/Teleconference)
8/6/24	10:00 AM	PA 24 Committee Mtg	Hybrid (SAWPA & Virtual/Teleconference)
8/15/24	4:00 PM	LESJWA Board of Directors Mtg	Hybrid (Elsinore Valley MWD, 31315 Chaney Street, 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
JUNE 18, 2024**

COMMISSIONERS PRESENT

Bruce Whitaker, Chair, Orange County Water District
Mike Gardner, Vice Chair, Western Municipal Water District
T. Milford Harrison, Secretary-Treasurer, San Bernardino Valley
Municipal Water District
David J. Slawson, Eastern Municipal Water District
Jasmin A. Hall, Inland Empire Utilities Agency

COMMISSIONERS ABSENT

None

**ALTERNATE COMMISSIONERS
PRESENT; NON-VOTING**

Gil Botello, San Bernardino Valley Municipal Water District
Denis Bilodeau, Orange County Water District

STAFF PRESENT

Jeff Mosher, Karen Williams, Rachel Gray, Shavonne Turner, Rick
Whetsel, Sara Villa, Melissa Bustamonte, Dean Unger, John Leete,
Alison Lewis, Marie Jauregui

OTHERS PRESENT

Andrew Turner, Lagerlof, LLP; Nick Kanetis, Eastern Municipal
Water District; Craig Miller, Western Municipal Water District; Mallory
O'Connor, Western Municipal Water District; Lisa Haney, Orange
County Water District; Beth Olhasso, West Coast Advisors; Michelle
Joy Gold

The Regular Meeting of the Santa Ana Watershed Project Authority Commission was called to order at 9:30 a.m. by Chair Bruce Whitaker on behalf of the Santa Ana Watershed Project Authority, 11615 Sterling Avenue, Riverside, California.

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: JUNE 4, 2024

Recommendation: Approve as posted.

B. TREASURER'S REPORT: MAY 2024

Recommendation: Approve as posted.

C. STATEMENT OF INVESTMENT POLICY (CM#2024.32)

Recommendation: Adopt Resolution No. 2024-6, approving the Statement of Investment Policy and delegate authority to the Chief Financial Officer to invest or reinvest funds consistent with the Statement of Investment Policy.

MOVED, to approve the Consent Calendar as posted.

Result:	Adopted by Roll Call Vote
Motion/Second:	Slawson/Gardner
Ayes:	Gardner, Hall, Harrison, Slawson, Whitaker
Nays:	None
Abstentions:	None
Absent:	None

6. WORKSHOP DISCUSSION AGENDA

A. LEGISLATIVE REPORT

Beth Olhasso of West Coast Advisors provided a presentation on the Sacramento Update. Regarding the Drought/Water Supply Update, things are looking good in the northern part of the State. As of June 16, 2024, Reservoirs Oroville's at 127% Shasta is at 114%, and Folsom at 120%, overall, a lot of water in the system. The big concern is the pumping restrictions in the Delta and keeping San Luis from being able to fill back up, as it is currently at 54%.

All Legislative Bills (Bills) are in the second year of a two-year session, and the second house policy committee deadline is July 3, 2024. Ms. Olhasso highlighted the following priority Bills:

- SB 366 (Caballero) CA Water Plan: Long-term Supply Targets
- AB 460 (Bauer-Kahen) Water Rights
- AB 2079 (Bennett) Groundwater
- SB 1255 (Durazo) Low-Income Rate Assistance
- SB 903 (Skinner) PFAS
- Connection and Capacity Fees Update: SB 1210 (Skinner), SB 937 (Weiner), and AB 1820 (Schiavo)
- POTW Effluent Testing: AB 3073 (Haney) Illicit Substances and SB 1147 (Portantino) Microplastics
- Water Use Efficiency: SB 1110 (Ashby) and SB 1330 (Archuleta)

Regarding the Climate Bond Update, the legislature passed a budget last week that was only a two-party agreement between the Senate and the Assembly. The Governor did not sign off on this so before the fiscal year ends (June 30, 2024), the final negotiations on the budget are currently being made prior to the legislature's recess (July 3, 2024). Ms. Olhasso noted there are three Bonds that are high priority, Education Bond is number one for both the Senate and Assembly, the Climate Bond at number two, and the Housing Bond at number three. There are negotiations currently taking place on three versions of the budget for the Climate Bond, a \$10 billion, \$8 billion, and \$6 billion version. It was noted that if the Climate Bond does not get through the November ballot, it could be two years (2026) for the next opportunity due to it having to go through a general election.

Ms. Olhasso emphasized that there is a huge budget deficit and unfortunately, the Watershed Climate Resilience Programs, PFAS, and Recycled Water funding have been cut, but are still under negotiation with Legislature and the Governor. The Urban Water Use Efficiency regulations draft was released June 14, 2024, and is anticipated to be adopted in the late July early August timeframe. In addition, the Department of Water Resources (DWR) released Cost Benefit analysis Delta Conveyance stating that there would be billions of dollars in benefits to communities across the State. There is a CA Air Resources Board Workshop scheduled June 20, 2024, regarding the requirements for Advanced Clean Fleets.

This item is to receive and file; no action was taken on agenda item no. 6.A.

7. NEW BUSINESS

A. AERIAL IMAGERY ANALYSIS OF ARUNDO DONAX IN THE SANTA ANA RIVER WATERSHED (CM#2024.33)

Rick Whetsel provided a presentation on the Aerial Imagery Analysis of Arundo Donax (Arundo) in the Santa Ana River Watershed (SARW) Status Update, contained in the agenda packet on pages 47-63. SAWPA staff is implementing an aerial imagery analysis project to identify invasive species within the riparian corridors of the SARW and to support the collective development of a strategy to prioritize removal projects and track the progress of Arundo eradication.

Arundo in the watershed consumes up to 12,000-36,000 AFY of water based on 600-1800 acres of Arundo in the watershed. Removing an acre of this species throughout the Santa Ana River riparian corridor and its tributaries saves 20-acre feet of water per year.

The project objective is a watershed-wide mapping of Arundo within riparian areas and apply a high resolution 3-inch, 4 band aerial imagery for the SARW and employ ESRI's ArcGIS Deep Learning Tools to develop a process using GIS-based decision tools for identifying locations, prioritizing projects, and tracking progress of removal activities. Deep Learning is a type of machine learning that involves teaching a computer to recognize patterns. The computer model learns from training samples and scans the image to identify similar features.

The benefits to the member agencies and other interested parties for the removal of Arundo includes:

- Increase local water supply resilience,
- Restoration of the natural habitat,
- Support Habitat Conservation Plan (HCP) permitting requirements (Orange County Water District and San Bernardino Valley Municipal Water District),
- Reduce the ignition source for fires,
- Support regional collaboration for invasive species removal, and
- Support grant funding opportunities for removal projects.

Interested parties to this planning project include:

- SAWPA Member Agencies,
- Resource Conservation Districts,
- Watershed stakeholders (county flood control and parks districts),
- U.S. Army Corps of Engineers and other federal agencies, and
- Community-based organizations.

Mr. Whetsel noted that there is a total of three phases anticipated to be done and Phase 1 is completed. He referenced page 59 of the agenda packet and provided the Phase 1 Project Area results. A total project area of 6,419 acres contains 240 acres of Arundo with model accuracy of 83%. Commissioner Gardner emphasized the importance of doing an analysis upstream. If the goal is to eradicate Arundo, you must start upstream in the headwaters and work your way downstream due to one plant can infest the entire river.

This item is to receive and file; no action was taken on agenda item no. 7.A.

8. INFORMATIONAL REPORTS

Recommendation: Receive for Information.

A. CASH TRANSACTIONS REPORT – APRIL 2024

B. INTER-FUND BORROWING – APRIL 2024 (CM#2024.34)

C. **PERFORMANCE INDICATORS/FINANCIAL REPORTING – APRIL 2024
(CM#2024.35)**

D. **STATE LEGISLATIVE REPORT**

E. **GENERAL MANAGER REPORT**

There were no reports from the General Manager.

F. **CHAIR’S COMMENTS/REPORT**

There were no comments/reports from the Chair.

G. **COMMISSIONERS’ COMMENTS**

There were no Commissioner comments.

H. **COMMISSIONERS’ REQUEST FOR FUTURE AGENDA ITEMS**

There were no requests for future agenda items.

9. **CLOSED SESSION**

There was no Closed Session.

10. **ADJOURNMENT**

There being no further business for review, Chair Bruce Whitaker adjourned the meeting at 10:21 a.m.

Approved at a Regular Meeting of the Santa Ana Watershed Project Authority Commission on Tuesday, July 2, 2024.

Bruce Whitaker, Chair

Attest:

Sara Villa, Clerk of the Board

COMMISSION MEMORANDUM NO. 2024.36

DATE: July 2, 2024

TO: SAWPA Commission

SUBJECT: SAWPA Building – Lobby Remodel (Security Improvements) and ADA Upgrades Project

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

RECOMMENDATION

That the Commission:

1. Direct the General Manager to file a Notice of Exemption for the Lobby Remodel and ADA Upgrades project with the Riverside County Clerk's Office; and
2. Direct the General Manager to issue a Notice Inviting Bids, upon completion of the Final Plans and Specifications, for the Construction of the Lobby Remodel and ADA Upgrades Project.

DISCUSSION

In April 2023, SAWPA issued a Task Order to Gillis + Panichapan to provide architecture and engineering services for alterations to the main lobby of the SAWPA building and required interior and exterior retrofits, including retrofits related to the American with Disability Act (ADA) requirements. Building plans were completed in February 2024 and submitted to the City of Riverside for Plan Review. Comments were provided by the City and plans have been revised to address the comments and resubmitted to the City. It is anticipated that approved plans will be received in July 2024.

Construction Cost Estimate

The project cost estimate for the lobby improvements, including both the internal and external ADA improvements, is estimated at \$519,587. As of April 30, 2024, the Building Reserve Fund has \$620,007 available.

Schedule of Critical Activities	
CEQA Notice of Exemption	July 2, 2024
Commission Approval – Notice Inviting Bids	July 2, 2024
Final Plans and Specifications	August 1, 2024
Issue Notice Inviting Bids	August 5, 2024
Commission Approval – Award Construction Contract	November 5, 2024
Construction	December – March 2025

CEQA Notice of Exemption

The project is categorically exempt from CEQA under the Public Resources Code Section 15301(a).

RESOURCE IMPACTS

Funds are available in the FY 2024 Budget, Building Reserve fund to cover the construction and construction management costs.

Attachments:

1. Notice of Exemption
2. PowerPoint Presentation

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NOTICE OF EXEMPTION-

To: Riverside County Clerk
2724 Gateway Drive
Riverside, CA 9250

From: Santa Ana Watershed Project Authority
(SAWPA)
11615 Sterling Avenue
Riverside, California 92503

Office of Planning and Research
1400 Tenth Street, Room 121
Sacramento, California 95814

Project title: Santa Ana Watershed Project Authority Lobby Remodel and ADA Upgrades

Location: 11615 Sterling Avenue, Riverside, California 92503

Location – Cities: Riverside

Project Location – Counties: Riverside

Description of Nature, Purpose and Beneficiaries of the Project: Renovation of the existing Santa Ana Watershed Project Authority Building Lobby and ADA Upgrades, including addition of a security partition, painting, floor replacement, restroom renovation, and exterior ADA access improvements. .

Name of Lead Agency Approving Project: Santa Ana Watershed Project Authority (SAWPA)

Reasons why project is exempt: This project is categorically exempt from the California Environmental Quality Act (CEQA) because it consists of minor alterations to existing facilities involving negligible expansion of use of the facility beyond that existing at the time of the lead agency's determination (14 California Code of Regulations [CCR], Section 15301(a)). Since this project is 'exempt', no notice is required, nor is a hearing or opportunity to be heard and no findings are required pursuant to 14 California Code of Regulations 15061-15062.

Lead Agency Contact Person: David P. Ruhl, Executive Manager of Engineering and Operations

Area Code/Telephone/Extension: (951) 354-4223

Address: 11615 Sterling Avenue, Riverside, CA 92503 **Email:** druhl@sawpa.gov

Signature: _____ **Date:** _____ **Title:** _____

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SANTA ANA WATERSHED
PROJECT AUTHORITY

SAWPA Building Lobby Remodel (Security Improvements and ADA Upgrades Project)

July 2, 2024
Item No. 6.A
David Ruhl

Executive Manager of Engineering and Operations

Recommendation

- Direct the General Manager to file a Notice of Exemption for the Lobby Remodel and ADA Upgrades Project with the Riverside County Clerk's Office; and
- Direct the General Manager to issue a Notice Inviting Bids, upon completion of the Final Plans and Specifications, for the Construction of the Lobby Remodel and ADA Upgrades Project.

Project Drivers

- Harden the entrance to add a layer of security
- Maintain lobby open during business hours
- Improve functionality and appearance of reception work area
- Improvements consistent with prior Phase 1 and 2
- Provide exterior and interior ADA Upgrades

Proposed Lobby



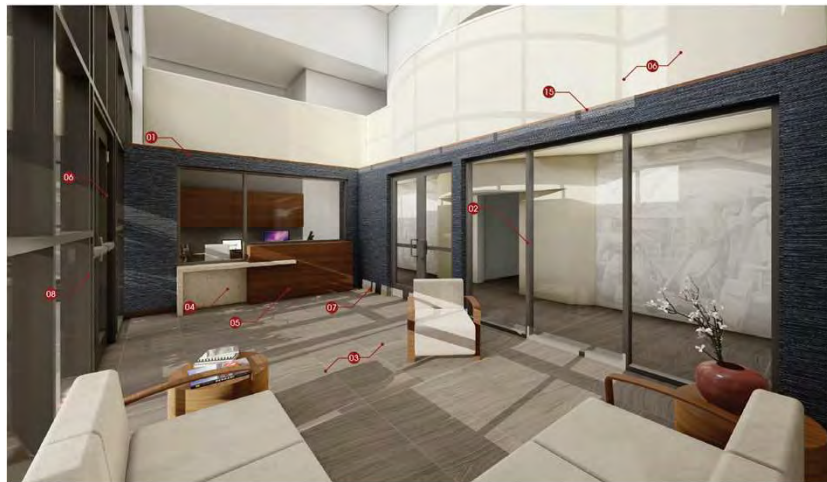


03 DAL TILE - TILE FLOORING
REVOTILE STONE LOOK
GRAPHITE RV61



01 KOROSEAL -
WALLCOVERINGS
INTERLOOM PRUSSIAN -
NM21-19

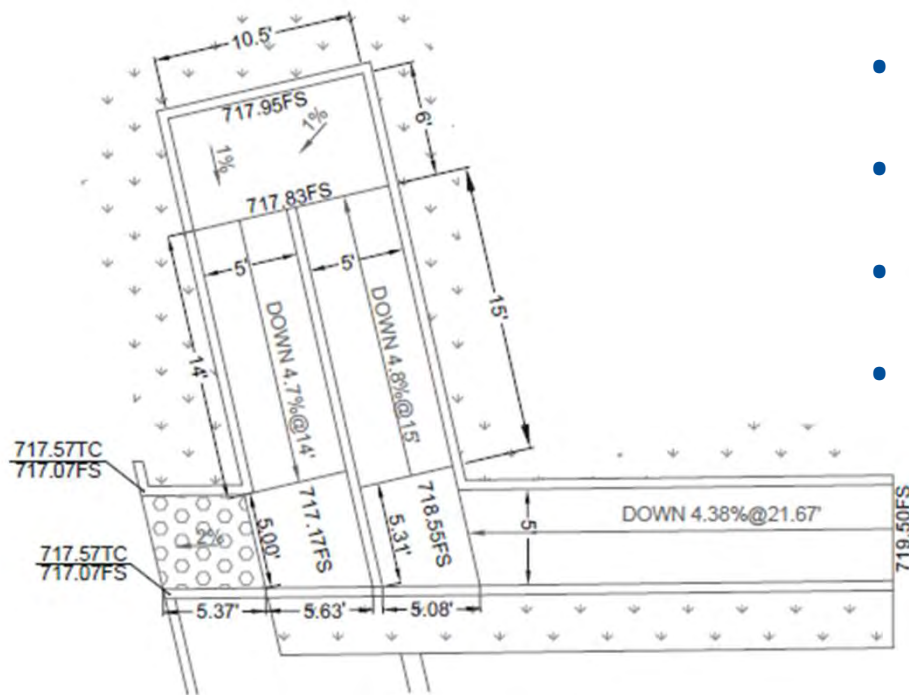
02 CLEAR ADONIZED
STOREFRONT SYSTEM



04 DAL TILE -
ENGINEERED STONE
OQ34 - ROCKY MOUNTAIN

05 WILSONART -
PLASTIC LAMINATE
WALNUT HEIGHTS - 7965

Exterior Entrance Redesign



RAMP DETAILS
SCALE: 1"=5'

- Provides path of travel
- Adds a ramp from the ADA parking
- Preserves 2/3 of the exterior concrete area
- Includes aesthetic features

Estimate of Construction Cost and CEQA

Estimate of construction costs

- Lobby and ADA Improvements \$519,587

As of 4/30/24, the Building Reserve fund has \$620,007 available.

CEQA

- Project is categorically exempt from CEQA under the Public Resources Code Section 15301 (a)

Schedule of Critical Activities

CEQA Notice of Exemption	July 2, 2024
Commission Approval – Notice Inviting Bids	July 2, 2024
Final Plans and Specifications	August 1, 2024
Issue Notice Inviting Bids	August 5, 2024
Commission Approval – Award Construction Contract	November 5, 2024
Construction	Dec 2024 – Mar 2025

Recommendation

- Direct the General Manager to file a Notice of Exemption for the Lobby Remodel and ADA Upgrades Project with the Riverside County Clerk's Office; and
- Direct the General Manager to issue a Notice Inviting Bids, upon completion of the Final Plans and Specifications, for the Construction of the Lobby Remodel and ADA Upgrades Project.

Questions?

Thank You

David Ruhl
Santa Ana Watershed Project Authority
Office (951) 354-4220
druhl@sawpa.org
sawpa.org



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COMMISSION MEMORANDUM NO. 2024.37

DATE: July 2, 2024
TO: SAWPA Commission
SUBJECT: Lake Elsinore and Canyon Lake TMDL Task Force Update
PREPARED BY: Rick Whetsel, Senior Watershed Manager

RECOMMENDATION

Receive and file.

BACKGROUND

The Santa Ana Regional Water Quality Control Board adopted a Total Maximum Daily Load (TMDL) for nutrient discharges to Canyon Lake and Lake Elsinore in 2004. The TMDL became effective when the United States Environmental Protection Agency (EPA) gave it final approval on September 30, 2005.

The TMDL specified numeric targets for DO, Chlorophyll a, Ammonia, Total Phosphorus (TP) and Total Nitrogen (TN) concentrations in both lakes. It also established Load Allocations (LA) and Waste Load Allocations (WLA) to govern the discharge of excess nutrients from non-point sources and point sources, respectively.

In 2005, stakeholders formed the Lake Elsinore & Canyon Lake TMDL Task Force (Task Force). This Task Force, administered by LESJWA provides stakeholders an opportunity to coordinate and share the cost of all implementation efforts. The Task Force is comprised of all the dischargers identified in the TDML, including Municipal Separate Storm Sewer System (MS4) permittees, wastewater treatment plants, agricultural operators, concentrated animal feeding operations (dairies), and a number of other state, federal, or tribal agencies that own land or operate facilities that discharge in the watershed.

To date, LESJWA staff continues to administer the work of the Task Force and its consultants to implement work tasks as required by Regional Board to achieve compliance with the Lake Elsinore and Canyon Lake TMDLs. Regular work funded and implemented by the task force includes:

- LESJWA staff time to administer the Task Force
- Regulatory Advisor, Tess Dunham, Kahn, Soares & Conway
- Annual watershed and lake monitoring and compliance reporting
- Semi-annual alum applications to Canyon Lake with the last application occurring the week of May 18, 2023
- Periodic fishery management studies

Currently, the Task Force and its consultants are working to complete an update to the TMDL Staff Report/TMDL Revision Technical Report (TMDL Revision Technical Report) for Lake Elsinore, Canyon Lake, and the San Jacinto River Watershed. This report contains all the required elements for revision of the 2004 TMDLs, including revised Numeric Targets for both Lakes and reflects further updated land use and possible further reductions of nutrients discharged to the Lakes.

RESOURCE IMPACTS

None.

Attachments:

1. PowerPoint Presentation

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Lake Elsinore & Canyon Lake TMDL Task Force Status Update

Commission Meeting
Item No. 6.B
Rick Whetsel
Senior Watershed Manager
July 2, 2024

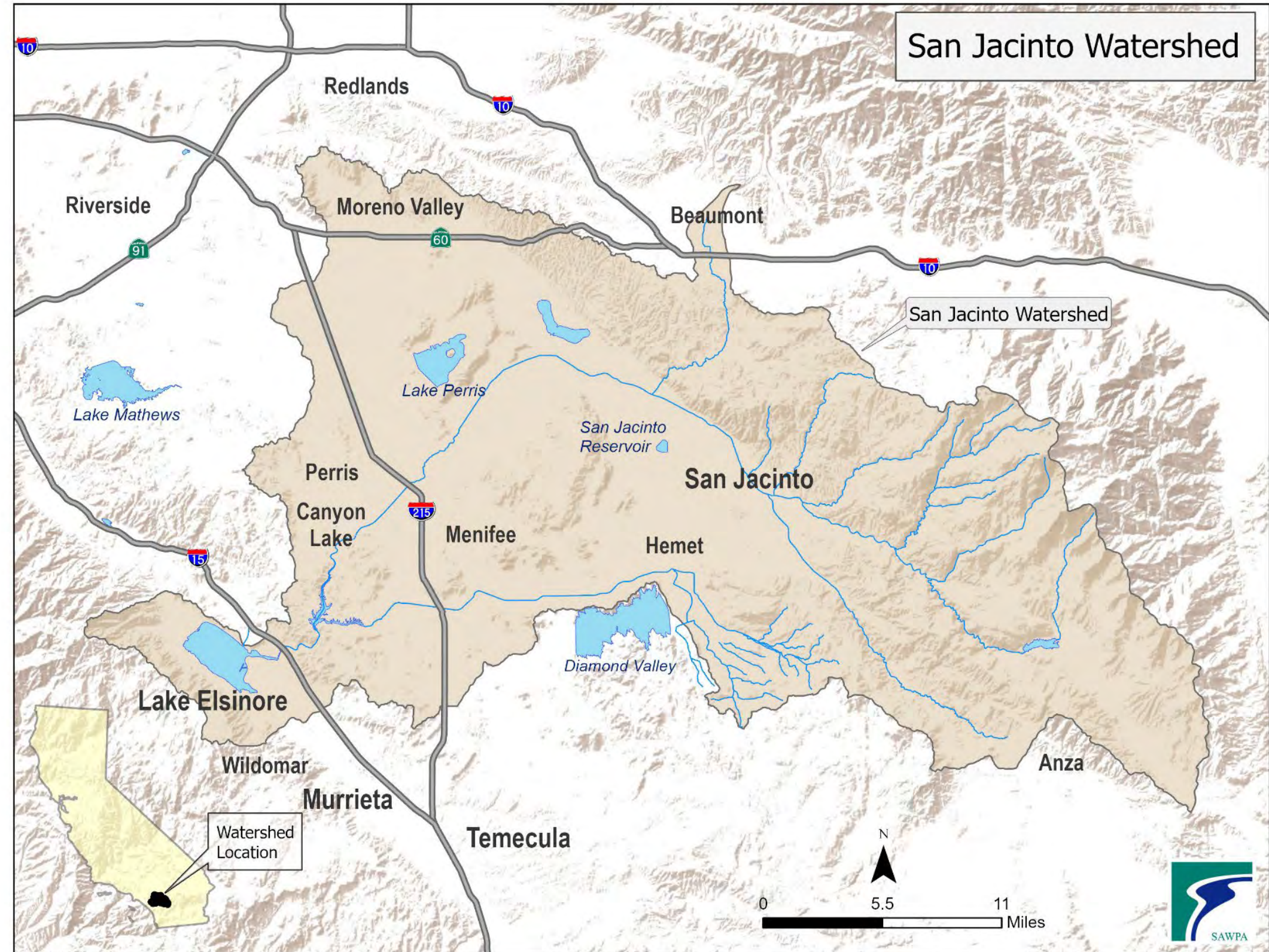
Agenda

- Background on LESJWA
- Lake Elsinore and Canyon Lake Water Quality
- Lake Elsinore and Canyon Lake TMDLs (2004)
- TMDL Events / Implementation Activities
- 2024 Updates to TMDLs



Lake Elsinore and San Jacinto Watersheds Authority (LESJWA)

- LESJWA is a Joint Powers Authority
- Five member agencies:
 - Elsinore Valley Municipal Water District
 - City of Lake Elsinore
 - City of Canyon Lake
 - County of Riverside
 - SAWPA (also LESJWA administrator)
- LESJWA goals:
 - Support projects to improve water quality at Lake Elsinore, Canyon Lake, and the San Jacinto River Watershed.
 - Secure reliable funding to operate and maintain water quality improvement projects
 - Administer the Lake Elsinore and Canyon Lake TMDL Task Force.





Canyon
Lake

Lake
Elsinore

Google earth

© 2017 Google

lat 33.681316° lon 117.305024° elev 1744 ft eye alt 10.01 mi

Lake Elsinore and Canyon Lake Basin Plan Objectives and Impairments

LAKES AND RESERVOIRS	BENEFICIAL USE																	
	MUN	AGR	IND	PROC	GWR	NAV	POW	REC1	REC2	COMM	WARM	LWRM	COLD	BIOL	WILD	RARE	SPWN	EST
Peters Canyon, Rattlesnake, Sand Canyon, and Siphon Reservoirs	+	X						X ⁴	X		X				X	X		
SAN JACINTO RIVER BASIN																		
Canyon Lake (Railroad Canyon Reservoir)	X	X			X			X	X	X	X				X			
Elsinore, Lake	+							X	X	X	X				X	X		
Fulmor, Lake	X	X						X	X		X		X		X			
Hemet, Lake	X	X			X		X	X	X	X	X		X		X	X	X	
Mystic Lake	I							I	I		I			X	X	X		
Perris, Lake	X	X	X	X	X			X	X	X	X		X		X	X		

X Existing or Potential Beneficial Use
I Intermittent Beneficial Use
+ Excepted from MUN (see text)

⁴ Access prohibited per agency/company with jurisdiction

Lake Elsinore

- Nutrients (N, P)
- Low Dissolved Oxygen
- PCBs
- DDT
- Toxicity

Canyon Lake

- Nutrients (N, P)

Lake Elsinore and Canyon Lake WQ Problems

- Algal blooms
- Fish kills

Cause of WQ Problems

- Excessive phosphorus and nitrogen (nutrients)
- Depletion of oxygen

Sources of Nutrients

- Urban, agriculture, erosion, septic systems
- Nutrient loading occurs during large storm events



Impairments Triggered Need for TMDLs

Purpose and Goal of TMDLs

- Attain and maintain applicable water quality standards
- Account for seasonal variations
- Pollutant by pollutant basis

Implementation of TMDLs

- Identification of actions/activities (i.e., tasks)
- Numeric targets
- Incorporated into discharge permits

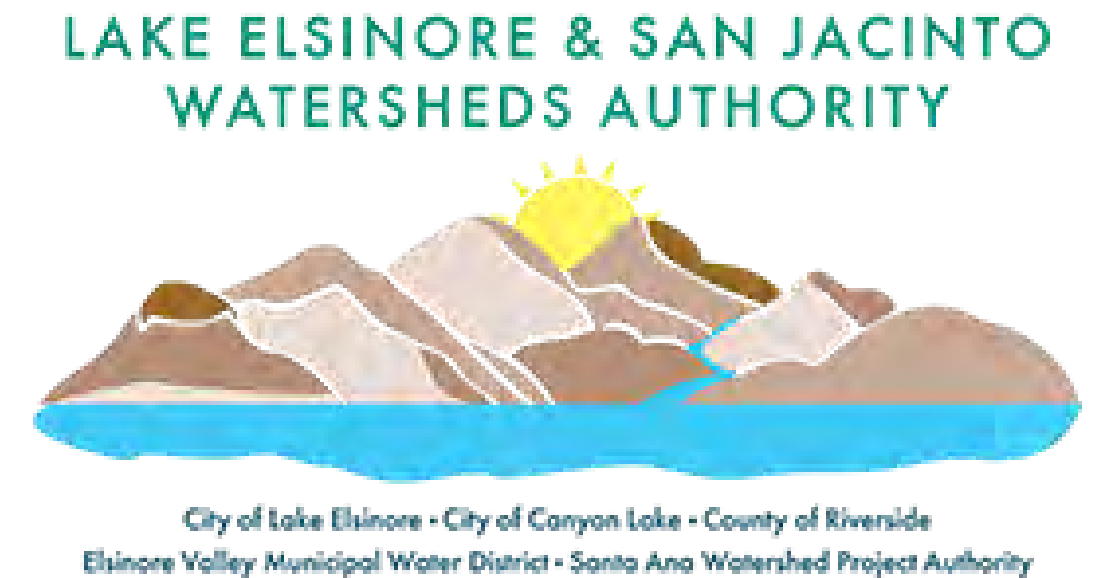
The 2004 TMDLs

Total Loads, Targets & Load Allocations

Lake Elsinore and Canyon Lake TMDL Task Force

- Water Quality Control Plan for the Santa Ana River Basin amended to include nutrient TMDLs for Canyon Lake and Lake Elsinore (2004)
 - DO, Chlorophyll a, Ammonia, Total Phosphorus (TP) and Total Nitrogen (TN)
 - Load Allocations (LA) and Waste Load Allocations (WLA) for discharge (non-point sources and point sources)
 - Implementation Plan (activities to meet water quality standards)
- Lake Elsinore & Canyon Lake TMDL Task Force formed by stakeholders (2005)
- LESJWA administers Task Force
 - Coordinate costs of all implementation efforts.
 - Implement TMDL Implementation Plan
 - Reviews TMDL Basin Plan Amendment

} Task Force Agreement



TMDL Water Quality Objectives

Indicator	Lake Elsinore (by 2020)	Canyon Lake
Total Phosphorous	Annual average of <0.1 mg/L	Same (by 2020)
Total Nitrogen	Annual average of <0.75 mg/L	Same (by 2020)
Ammonia Nitrogen	Acute and Chronic calculated levels	Same (by 2020)
Chlorophyll-a	Summer avg <25 ug/L	Same (by 2020)
Dissolved Oxygen	>5 mg/L 1 meter above lake bottom	Daily avg in hypolimnion of >5 mg/L by 2015

Wasteload Allocations: Canyon Lake

Canyon Lake Nutrient TMDL	Final Total Phosphorus Load Allocation (kg/yr) ^{b, c}	Final Total Nitrogen Load Allocation (kg/yr) ^{b, c}
TMDL	8,691	37,735
Wasteload Allocations (WLA)	486	6,248
Supplemental Water	48	366
Urban	306	3,974
CAFO	132	1,908
Load Allocations (LA)	8,205	31,487
Internal Sediment	4,625	13,549
Atmospheric Deposition	221	1,918
Agriculture	1,183	7,583
Open/Forest	2,037	3,587
Septic Systems	139	4,850

^a TMDL allocations for Canyon Lake apply to those land uses located upstream of Canyon Lake

^b Final allocation compliance to be achieved as soon as possible, but no later than December 31, 2020

^c TMDL and allocations specified as 10-year running average

Wasteload Allocations: Lake Elsinore

Lake Elsinore Nutrient TMDL	Final Total Phosphorus Load Allocation (kg/yr) ^{b, c}	Final Total Nitrogen Load Allocation (kg/yr) ^{b, c}
TMDL	28,584	239,025
Wasteload Allocations (WLA)	3,845	7,791
Supplemental Water ^d	3,721	7,442
Urban	124	349
CAFO	0	0
Load Allocations (LA)	21,969	210,461
Internal Sediment	21,554	197,370
Atmospheric Deposition	108	11,702
Agriculture	60	213
Open/Forest	178	567
Septic Systems	69	608
Canyon Lake Watershed ^e	2,770	20,774

^a The Lake Elsinore TMDL allocations for urban, agriculture, open/forest, septic systems and CAFOs only apply to those land uses located downstream of Canyon Lake.

^b Final allocation compliance to be achieved as soon as possible, but no later than December 31, 2020.

^c TMDL and allocations specified as 10-year running average.

^d WLA for supplemental water should be met as soon as possible as a 5 year running average.

^e Allocation for Canyon Lake overflows.

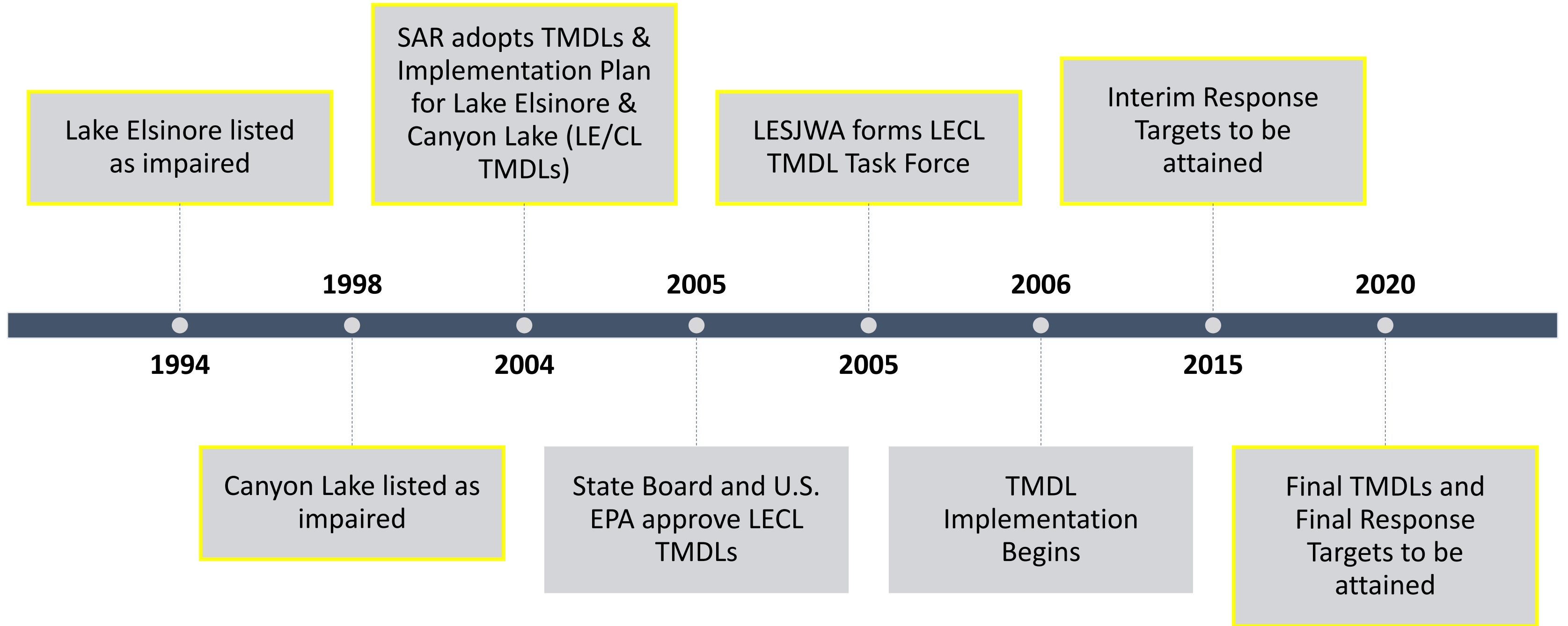
Task Force Members for LECL TMDL Task Force

- Riverside County
- Riverside County Flood Control and Water Conservation District
- City of Beaumont
- City of Canyon Lake
- City of Hemet
- City of Lake Elsinore
- City of Moreno Valley
- City of Murrieta
- City of Menifee
- City of San Jacinto
- City of Riverside
- City of Perris
- City of Wildomar
- Caltrans
- CA Dept. of Fish and Wildlife
- Elsinore Valley Municipal Water District
- March Air Force Reserve JPA
- March Air Force Base
- Eastern Municipal Water District
- San Jacinto Ag Operators
- San Jacinto Dairy Operators

2004 TMDL Key Events

Timelines for TMDL compliance,
implementation and related activities

Timeline TMDL Key Events



Key Implementation Actions

Projects/Studies

- Recycled water to Lake Elsinore (2002)
- Carp Removal Program (2002-2008)
- Lake Elsinore Aeration & Mixing System (LEAMS) (2008)
- Application of Alum to Canyon Lake (2013)
- Draft Technical TMDL Report (2018)
- Ag Surface Runoff Water Quality Index (2019)
- Comprehensive Fish Survey Study (2020)

Regulatory

MS4 Permit included TMDLs (2010)

Nutrient Reduction Plan Implementation (2013/4)

Agricultural Nutrient Management Program (AgNMP)
submitted to Reg Board (2013)

Conditional Waiver for Agricultural Operations adopted (2013/6)

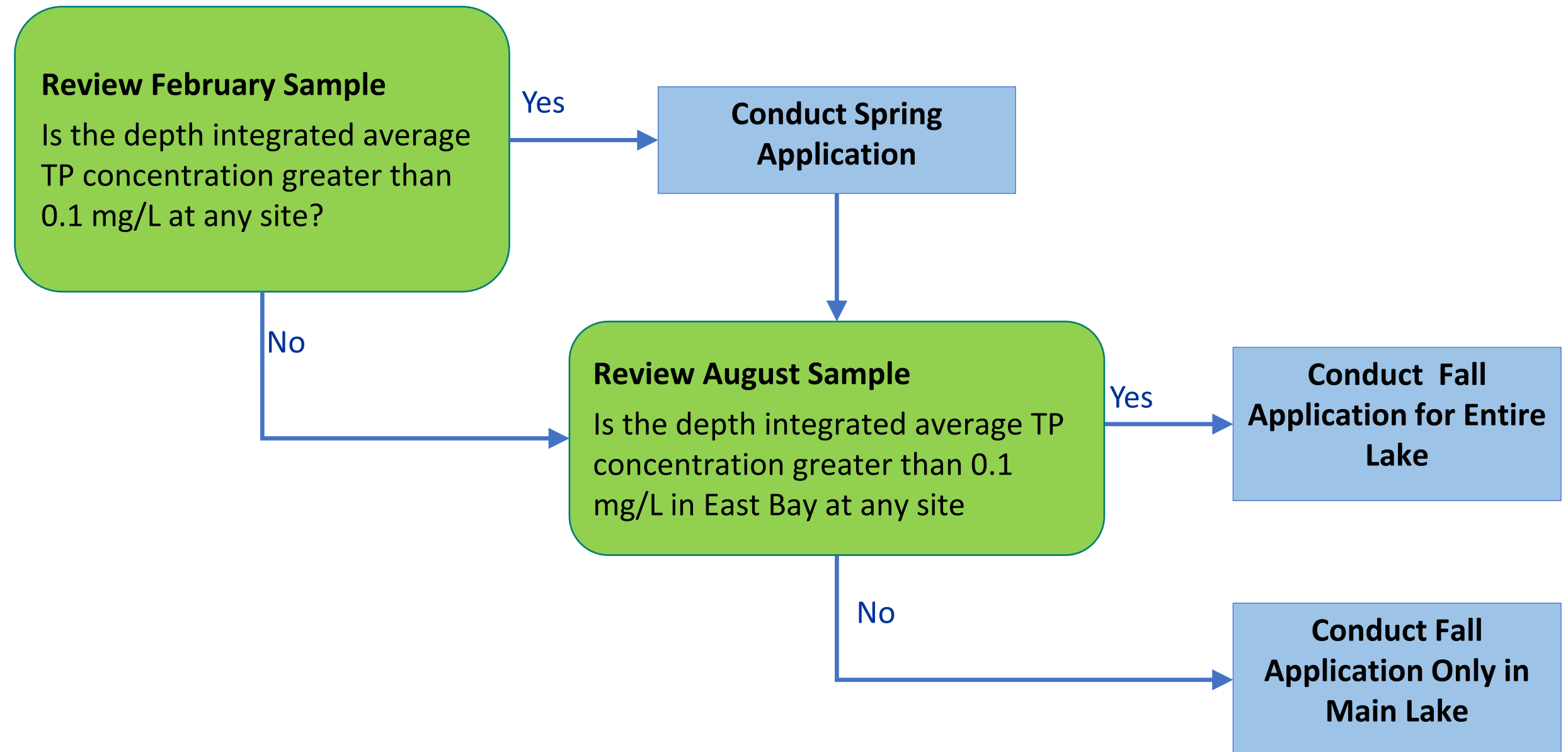
Compliance Assessment Report submitted to SAR (2020)

Task Force Investments

Activity	Estimated Annual Cost	Estimated One Time Cost
Administration/Regulatory Facilitation	\$145,000	N/A
Monitoring & Reporting	\$235,000	N/A
Canyon Lake Alum Applications	\$240,000	\$120,000 per event
LEAMS Operations & Offsets	\$125,000	N/A
2018 Draft TMDL Technical Report	N/A	\$875,000 - \$1,000,000
2019-2020 Fisheries Study	N/A	\$200,000

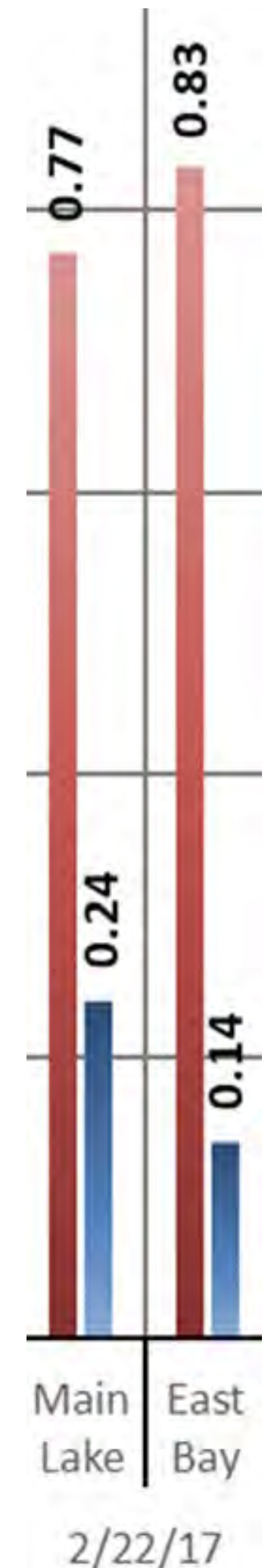
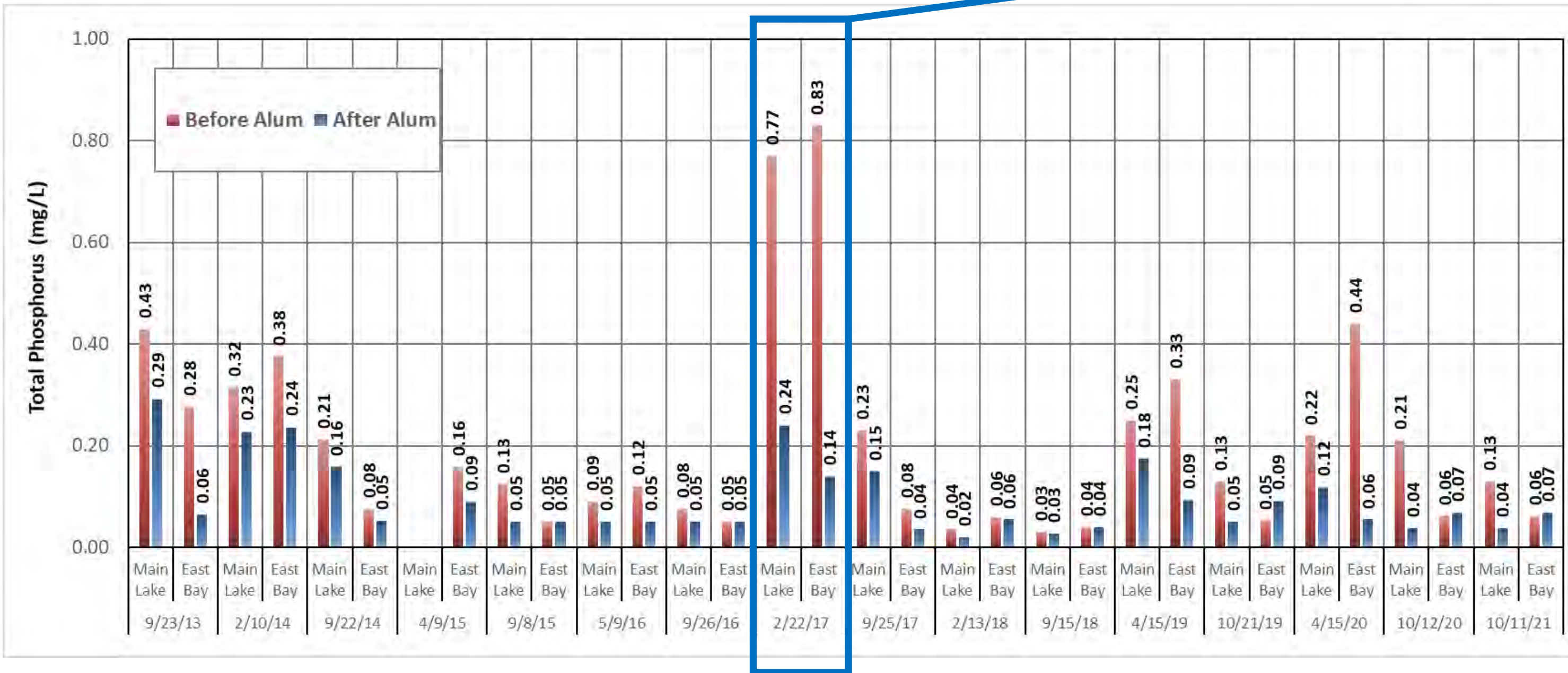
Routine Alum Application in Canyon Lake

- Alum binds to phosphorous removing it from the water column
- Alum applied lake-wide semi-annually in spring and fall seasons



Effectiveness of Alum Applications

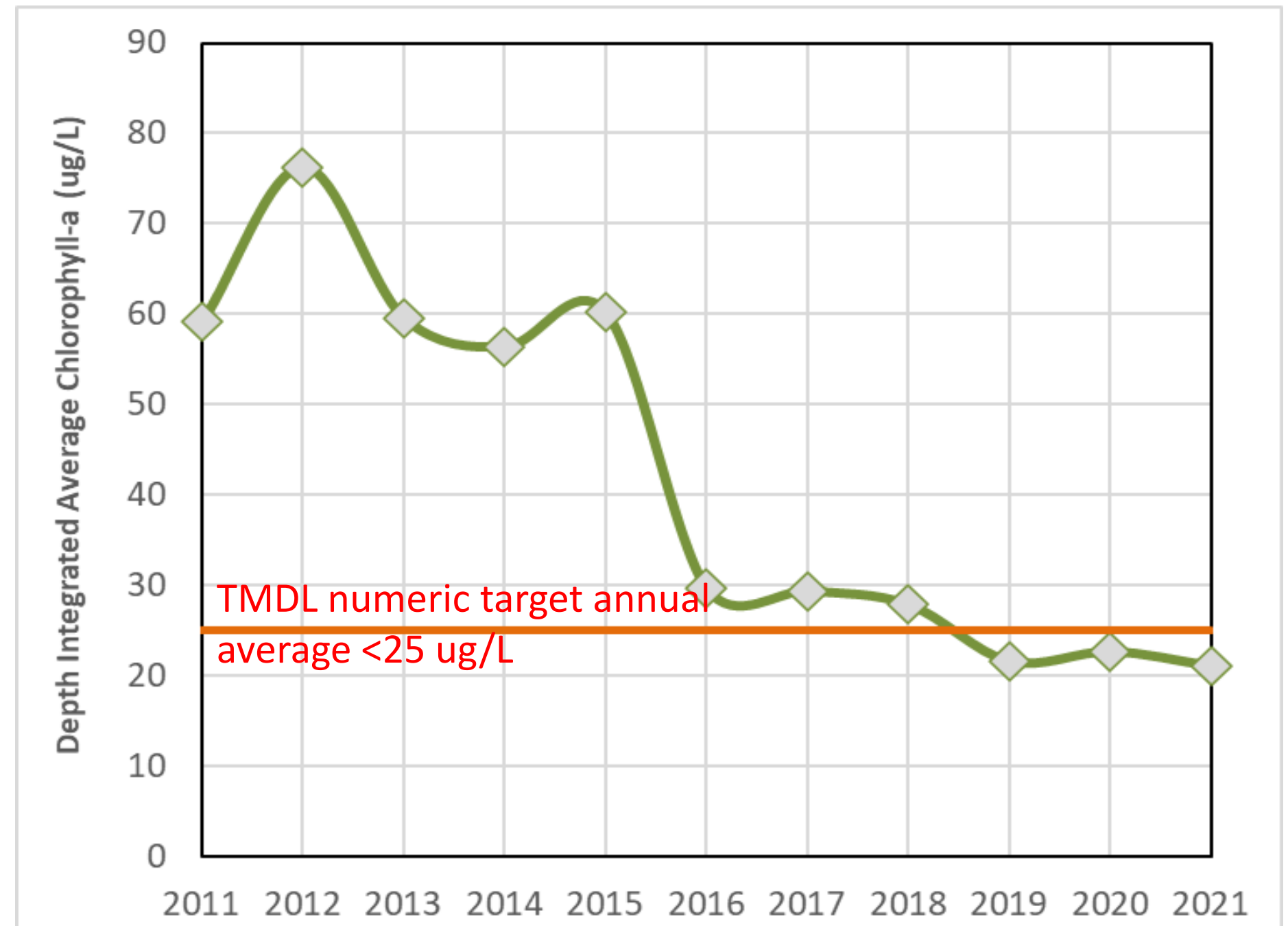
- Monitoring data in Canyon Lake since 2013 show consistent reductions in **Total Phosphorus (TP)**



Note: before and after alum sampling dates 8 weeks apart

Effectiveness of Alum Applications

- Routine, low-dose, alum additions in Canyon Lake
- Improved water quality that is meeting 2004 TMDL numeric targets for algae



Overflows to Lake Elsinore

Alum in Canyon Lake causes notable reduction in TP load to Lake Elsinore

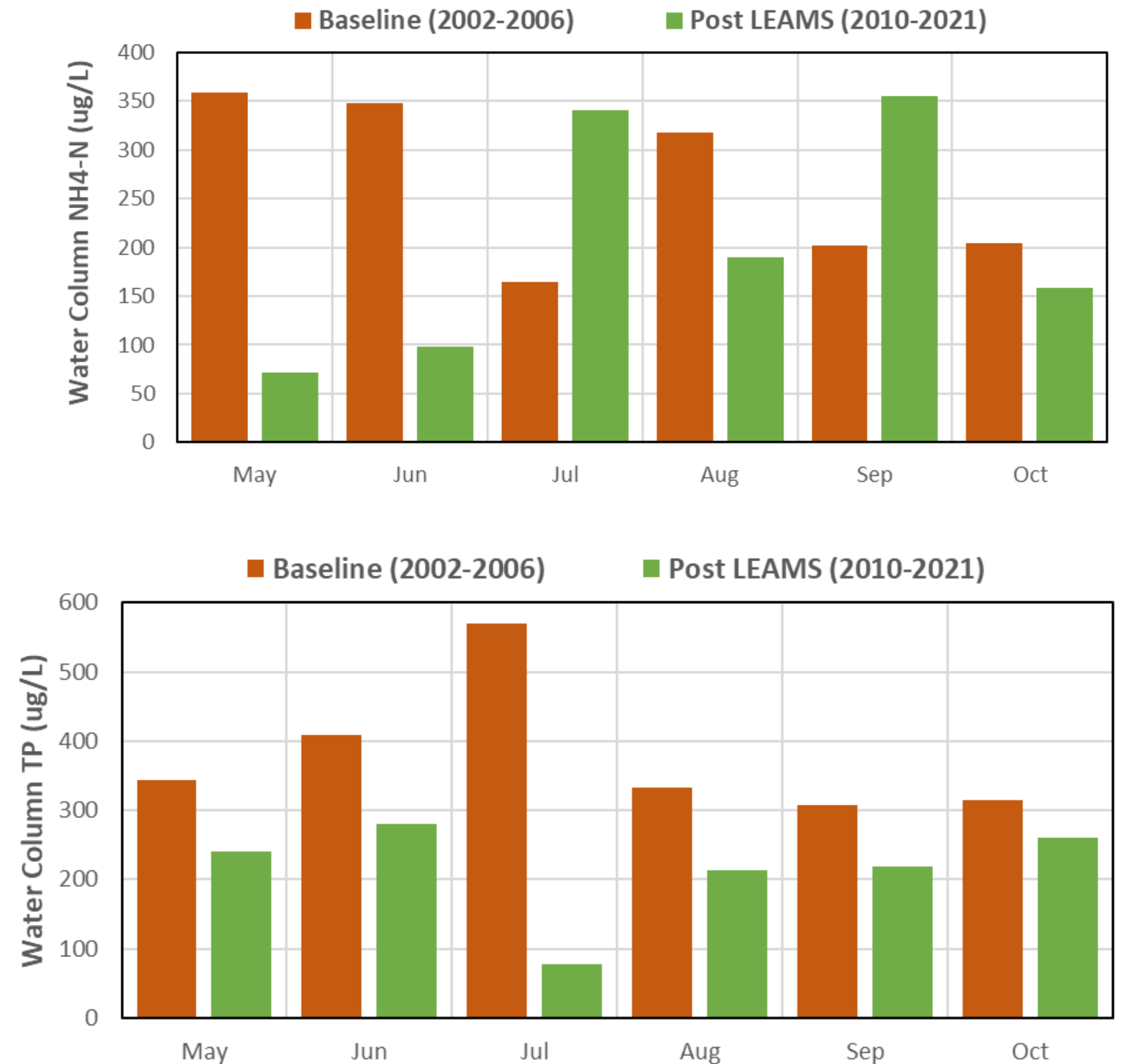
Average Wet Weather Nutrients in Overflows to Lake Elsinore	TP (mg/L)	TN (mg/L)
Before Canyon Lake Alum	0.58	1.92
After Canyon Lake Alum	0.27	1.93



Photo from Wood, 2021 Annual Monitoring Program Report, March 10-15, 2021

Lake Elsinore Project Implementation

- Ongoing project implementation including LEAMS, fishery management, and reclaimed water addition
- Monthly effectiveness monitoring comparing nutrients in-lake during baseline (2002-2006) to post project period (2010-2021)
- Results during May-Oct period of LEAMS operation
- Data showed the lake produced sufficient oxygen during the winter months.



2020 TMDL Compliance

TMDL	Final Total Phosphorus TMDL (kg/yr)^{a, b}	Final Total Nitrogen TMDL (kg/yr)^{a, b}
Canyon Lake	8,691	37,735
Lake Elsinore	28,584	230,025

^a Final compliance to be achieved as soon as possible, but no later than December 31, 2020

^b TMDL specified as 10-year running average

In 2020, Stakeholders as a collective met the overall TMDL Allocations



But, Compliance with 2004 TMDL Is Not Enough

TMDL needs to be revised
based on 20-years of new
data & knowledge gained.

Goals of Revised TMDL

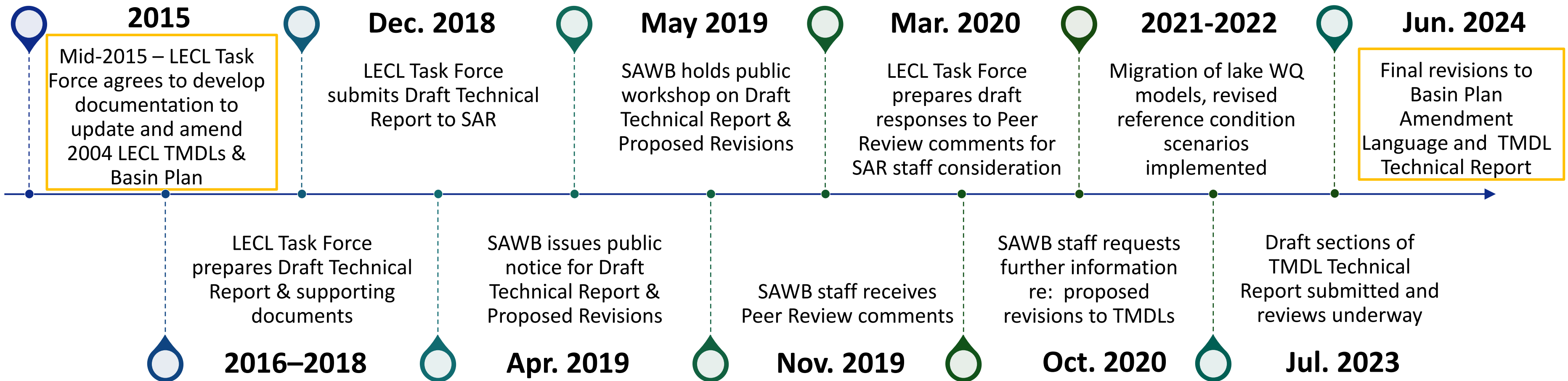
Goal 1 – Identify and manage **controllable watershed sources of nutrients** that flow into Canyon Lake and Lake Elsinore

Goal 2 – Identify long-lasting **in-lake controls** that address sediment fluxes and dissolved oxygen levels for protection of aquatic life & recreational beneficial uses

Goal 3 – Identify **appropriate water quality criteria** for protecting beneficial uses in two dynamic lake systems

Goal 4 – Provide controllable sources with a **reasonable, feasible and practical pathway** for meeting appropriate water quality criteria

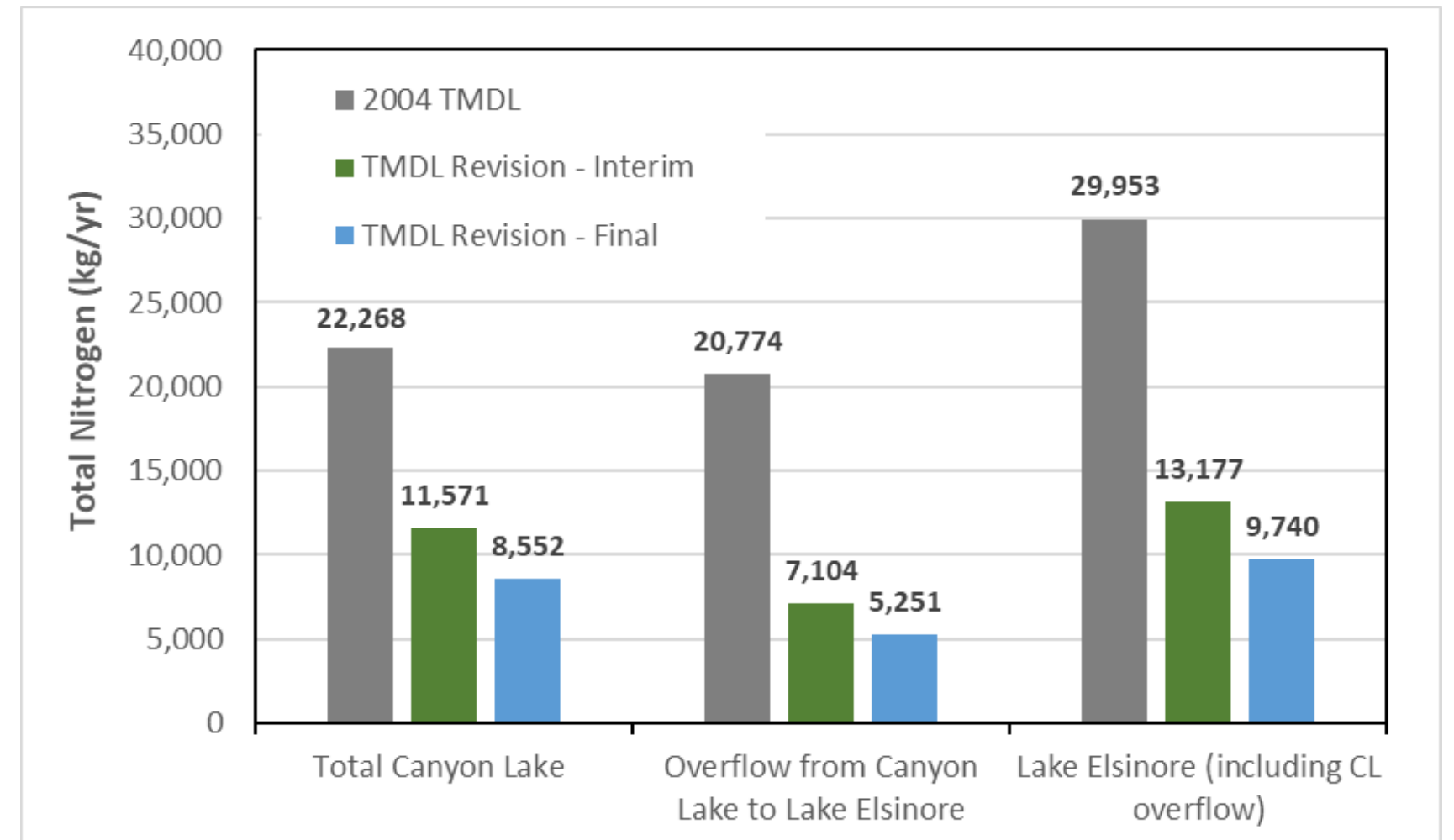
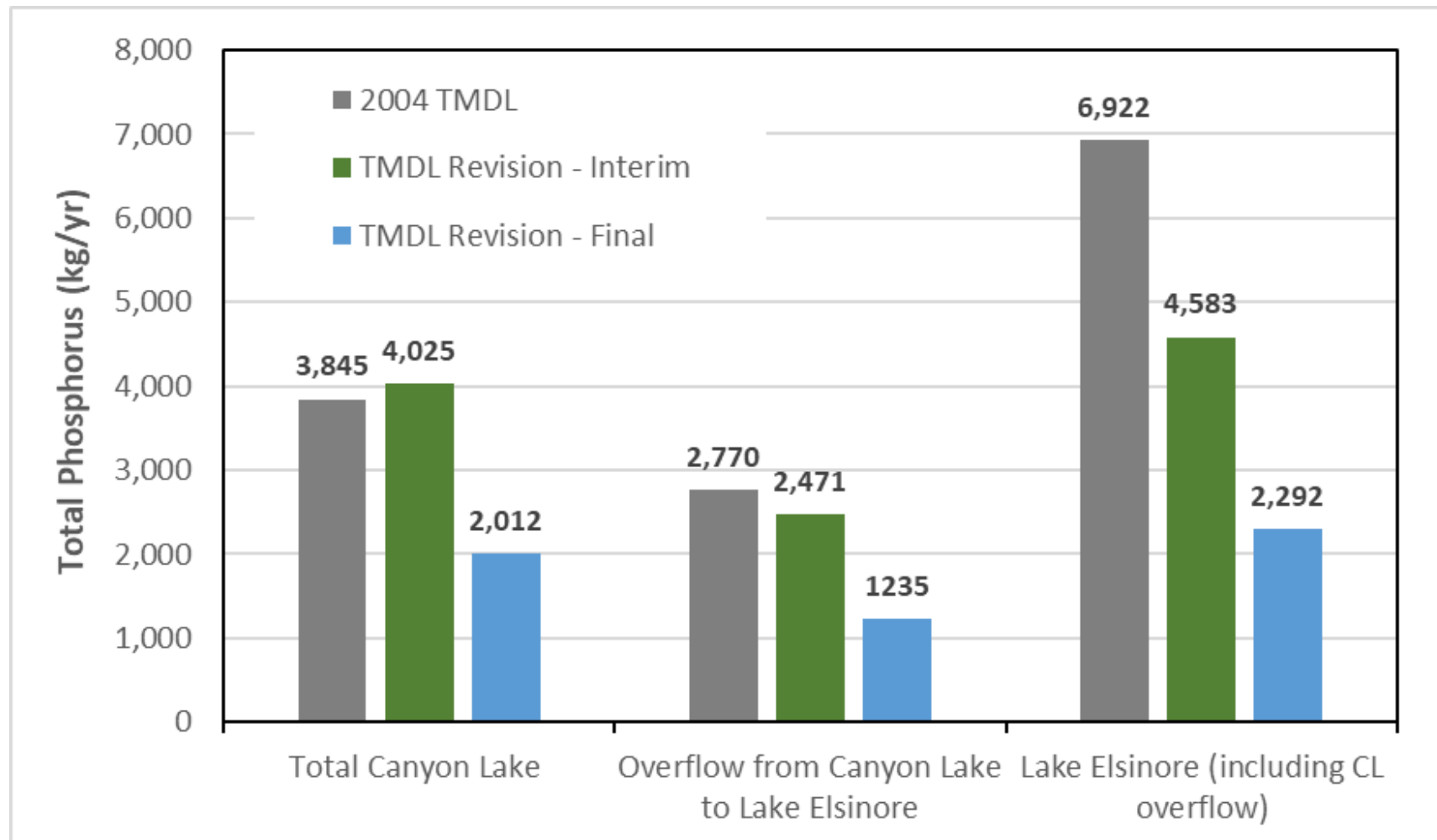
Timeline of TMDL Update



General Approach in the Draft Revised TMDL

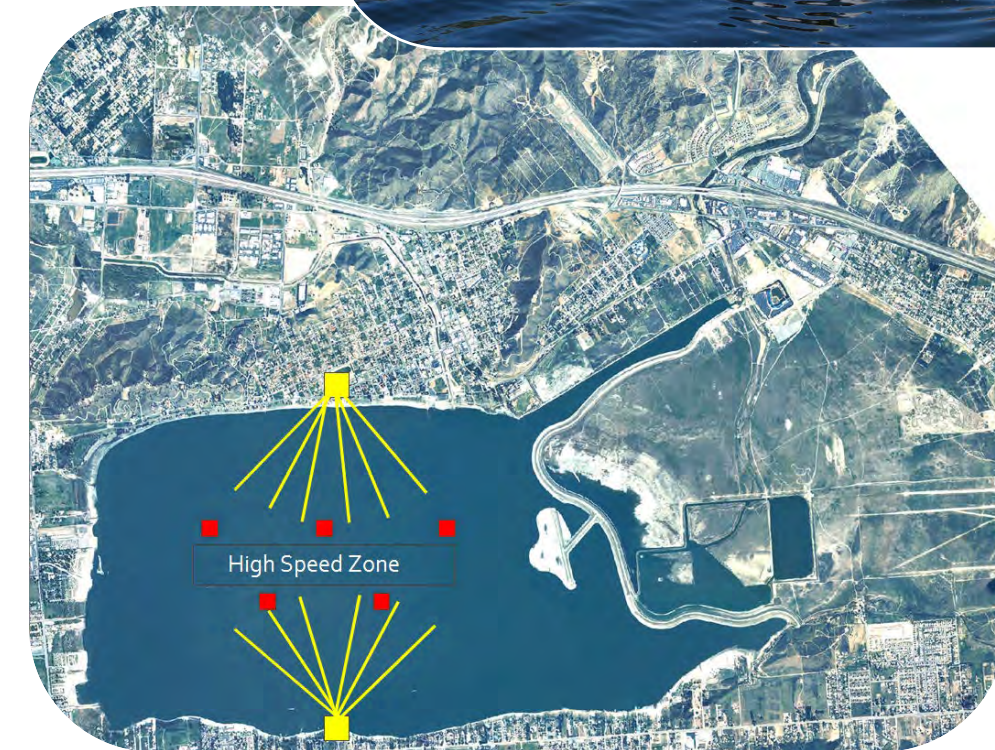
- Numeric targets (chlorophyll a, dissolved oxygen, ammonia) expressed as cumulative distribution frequencies (CDFs)
- Waste load and load allocations for Total N and Total P based on reaching the reference condition
 - That is, natural occurring levels of Total N and P that would enter the lakes from the upper watershed)
- Reference condition defined as being the median and 25th percentiles of TP and TN data at Cranston Guard Station

Revised TMDL Targets



Draft Plan for Meeting the Interim TMDLs (Phase 2 – Years 1 through 20)

- Evaluate existing In-Lake Water Quality Controls
- Implement Preferred Options
- Special studies
 - Lake bottom sediment sampling
 - Cyanobacteria in Lake Elsinore
 - Fisheries Management
- Evaluate Final TMDLs/Revise if appropriate
- Update and continue monitoring plan



Draft Plan for Meeting the Final TMDLs (Phase 3 – Years 21 through 30)

- Evaluate In-Lake Water Quality Controls
- Implement new or revised controls, if necessary
- Identify additional load reductions necessary to meet Final TMDLs, and implement
- Special Studies
 - Lake bottom sediment sampling
 - Fisheries Management



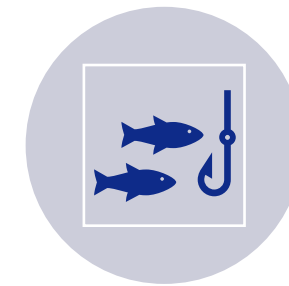
Task Force Efforts Provide Significant Benefits for LESJWA



Conducts comprehensive watershed and in-lake monitoring



Conducts special studies to better understand lake dynamics



Conducts special studies to evaluate fisheries resources



Provides resources for implementation of in-lake controls through use of offset credits



Evaluates impacts of watershed and in-lake controls



Uses best available science to identify appropriate water quality criteria for controlling nutrient impacts in the lakes



Works closely with Santa Ana Water Board to address nutrient impairments by updating TMDLs



Collaborative Process including watershed stakeholders



Cost savings to individual stakeholders

Timeline for Revised TMDL and Next Steps





Questions?

Thank You

Rick Whetsel
Santa Ana Watershed Project Authority
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rwhetsel@sawpa.gov
sawpa.gov





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1 Phase I of the Arundo Identification Project Successfully Completed

Phase I of the Arundo Identification Project Successfully Completed

SAWPA has utilized Deep Learning Artificial Intelligence to estimate 240 acres of invasive Arundo in the Santa Ana River Channel, between Prado and La Cadena. This project highlights the extent of the Arundo problem and will inform future removal efforts. The next phases will focus on the Upper Watershed (Riverside and San Bernardino Counties) and the Lower Watershed (Orange County). Additionally, SAWPA's abstract was accepted to present this project at this year's CA Water Data Summit in August in San Diego, California.

2 SAWPA's General Manager Presents at CASA/CWEA Partnering for Impact Workshop

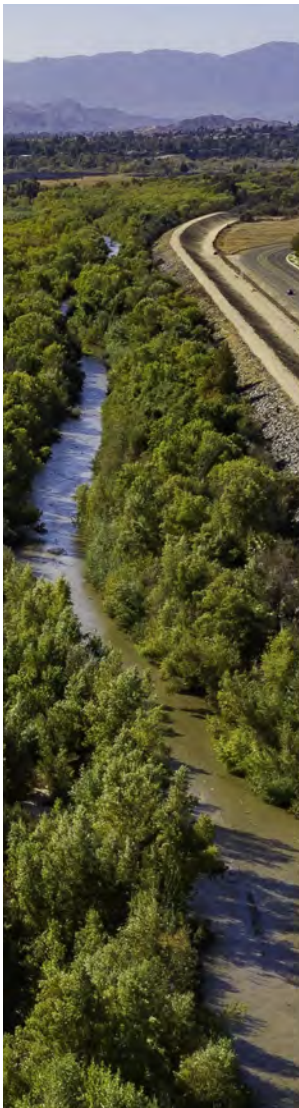
SAWPA's General Manager Presents at CASA/CWEA Partnering for Impact Workshop

SAWPA's General Manager, Jeff Mosher, recently presented at the CASA/CWEA Partnering for Impact Workshop in early June. His presentation focused on planning for resilience in water reclamation and PFAS management. The workshop provided guidance and insights for advancing sustainable water management practices.

3 SAWPA Team Attends the 33rd Annual WRCOG General Assembly

SAWPA Team Attends the 33rd Annual WRCOG General Assembly

SAWPA staff attended the 2024 WRCOG General Assembly on June 20 at Pechanga Casino in Temecula, California! SAWPA Commissioner Jasmin A. Hall was present alongside the team, participating in discussions and networking with regional leaders. The event provided an opportunity for SAWPA to engage with key stakeholders and stay informed about regional initiatives and collaborative efforts.



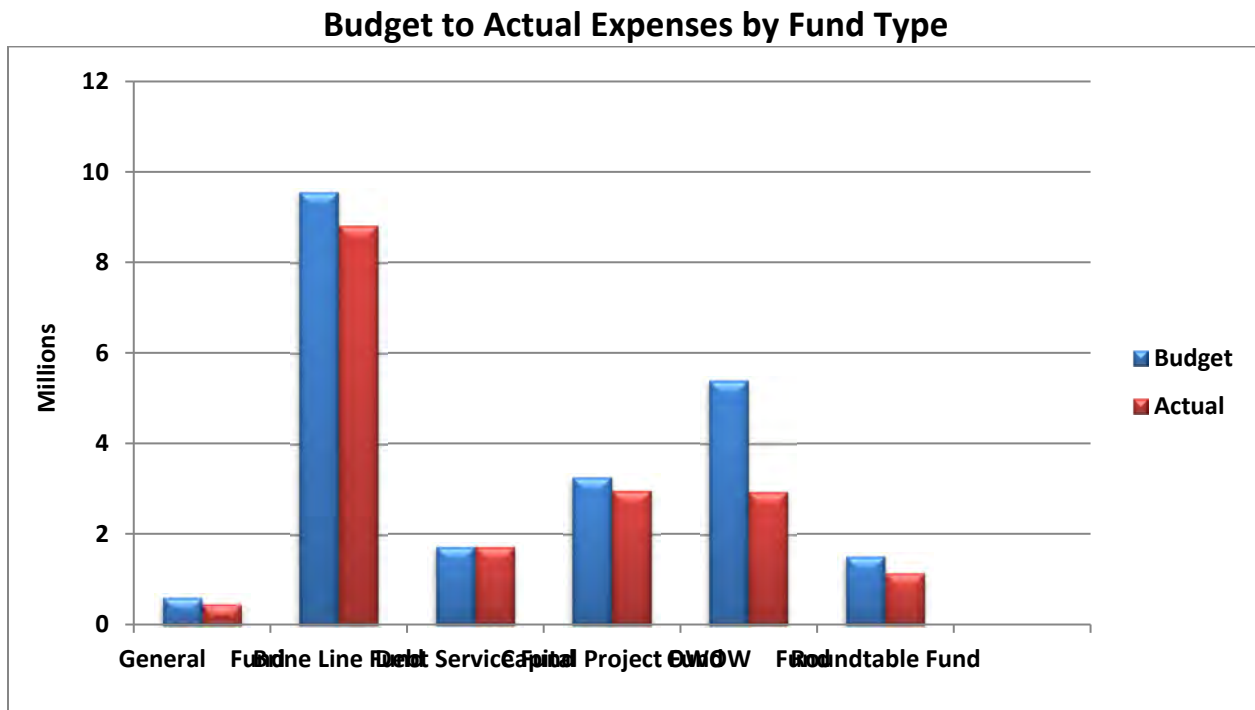
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Santa Ana Watershed Project Authority Executive Financial Information Report April 2024

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) April 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	\$696,275	\$596,895	\$457,888	\$139,008
Brine Line Enterprise	11,022,144	9,556,006	8,824,633	731,373
Debt Service Fund	1,709,476	1,709,476	1,709,476	-
Capital Project Fund	3,893,137	3,244,281	2,955,726	288,555
OWOW Fund	6,469,335	5,391,114	2,939,979	2,451,135
Roundtable Fund	1,764,355	1,490,990	1,131,126	359,864
Total	\$25,554,722	\$21,988,763	\$18,018,828	\$3,969,935



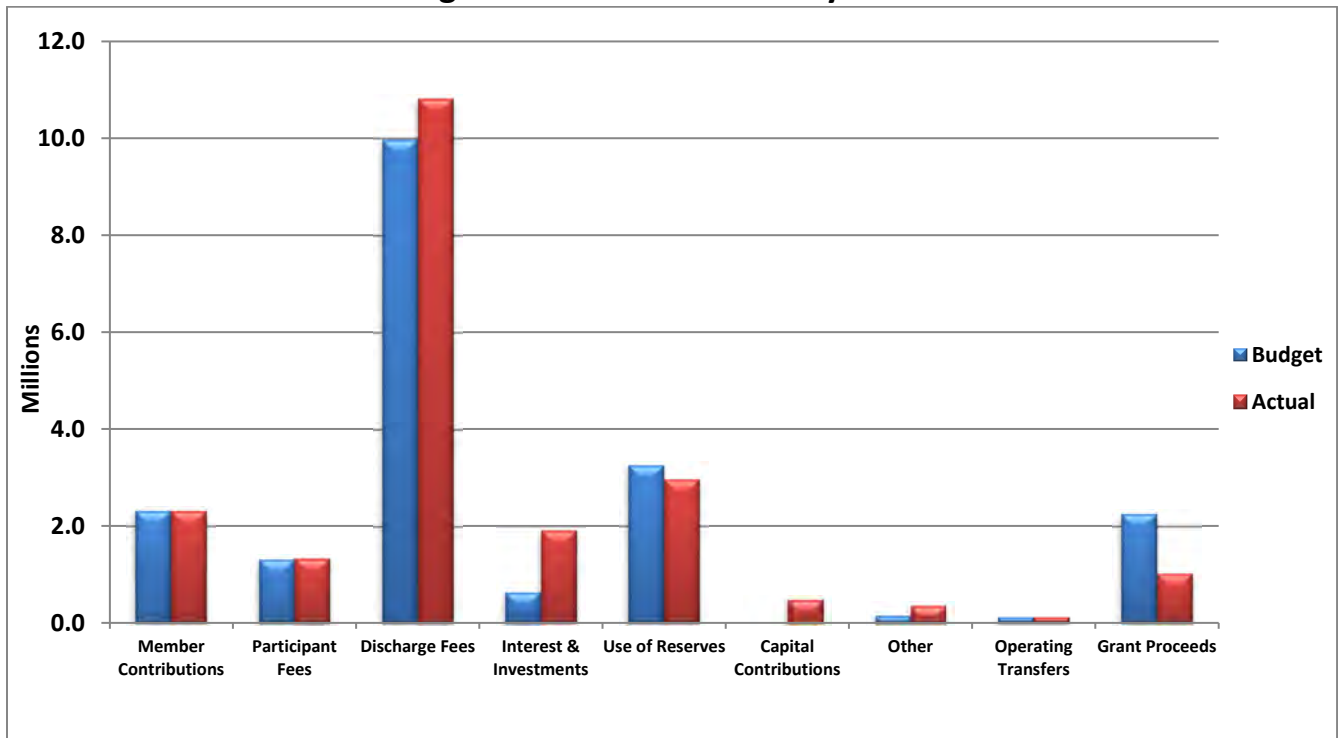
Budget to Actual Revenues by Source



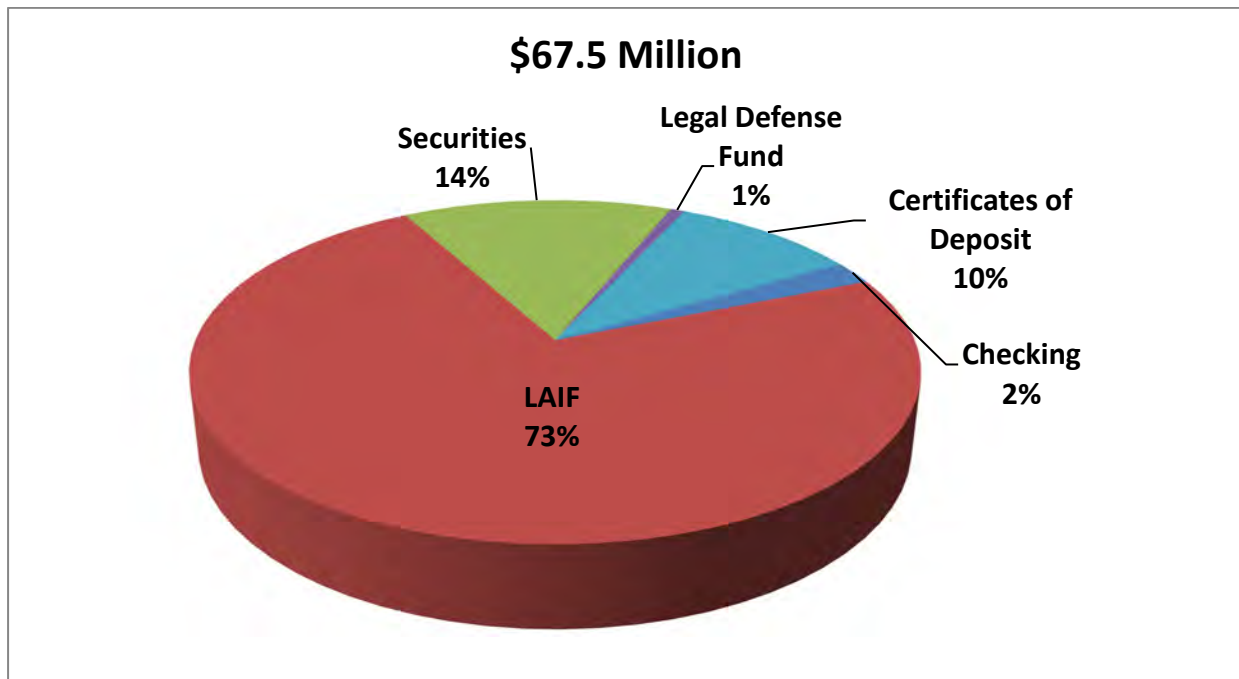
Favorable

	Annual Budget	FYTD Budget	FYTD Actual	Favorable (Unfavorable) Variance
Member Contributions	\$2,308,275	\$2,308,275	\$2,308,275	\$-
Participant Fees	1,301,678	1,301,678	1,322,726	21,048
Discharge Fees	11,961,620	9,968,017	10,816,244	848,227
Interest & Investments	770,000	641,667	1,907,382	1,265,715
Use of Reserves	3,893,137	3,244,281	2,955,726	(288,555)
Capital Contributions	-	-	475,081	475,081
Other	185,857	154,881	340,247	185,365
Operating Transfers	124,165	124,165	124,165	-
Grant Proceeds	3,357,148	2,254,707	1,026,905	(1,227,802)
Total	\$23,901,880	\$19,997,671	\$21,276,751	\$1,279,080

Budget to Actual Revenues by Source



Total Cash & Investments







Reserve Fund Balance

	Amount
General Fund	\$1,824,595
Building Fund	620,007
OWOW Fund	1,751,490
Roundtable Fund	2,815,865
Debt Retirement	2,979,538
Pipeline Replacement & Capital Investment	33,560,659
OC San Pipeline Rehabilitation	2,849,924
Pipeline Capacity Management	12,671,389
OC San Future Treatment & Disposal Capacity	1,940,031
Brine Line Operating Reserve	2,240,462
Brine Line Operating Cash	4,295,641
Total Reserves	\$67,549,601

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.

Revenues are 6.4% above budget and expenses are 18.1% below budget. It is anticipated that they both will be on track with the budget by the end of the year.



SAWPA Communications Report

Date: July 2, 2024
To: Commission
From: Melissa Bustamonte
Subject: Communications Highlights – June 1, 2024 – June 30, 2024

Communications

- Staff updated all outreach materials for SAWPA’s renaming of the Santa Ana River Watershed Weather Modification Pilot Program to the Santa Ana River Watershed Cloud Seeding Pilot Program. Updated materials include the project [webpage](#), fact sheet, FAQ, and brochure. In addition, staff updated the original public outreach email from weathermodification@sawpa.gov, to cloudseeding@sawpa.gov. The name update is to prevent potential confusion among the general public.
- New and improved signage for SAWPA’s Urban Garden is underway. The Communications staff has finalized the artwork, and installation is anticipated this summer.



SANTA ANA WATERSHED
PROJECT AUTHORITY

SAWPA's
Urban
Garden



Dive into SAWPA's Water Use Efficiency efforts by scanning the QR code or visiting sawpa.gov.

Our Windmill

Discover the connection between energy and water management at SAWPA's Urban Garden, where our windmill represents renewable and sustainable energy practices. Energy is a key component in water treatment and distribution, and utilizing natural water flow for energy generation showcases a sustainable approach.

Today, SAWPA's windmill stands as symbol of resilience and integrated planning, demonstrating our commitment to creating projects that offer multiple benefits throughout the Santa Ana River Watershed.



SANTA ANA WATERSHED
PROJECT AUTHORITY
SAWPA's
Urban
Garden



Dive into SAWPA's
Water Use Efficiency
efforts by scanning
the QR code or
visiting sawpa.gov.

Water-Wise Landscaping

Designing a water-wise landscape starts with reimagining how you use your lawn. Limit turf to functional areas only and use a weather-based drip irrigation system for efficient watering. These small changes can conserve water and reduce maintenance, making a big impact on your outdoor space.

Pro tip: Incorporate a variety of water-wise plants and California natives, such as succulents, lavender, and California poppies, to create a beautiful, drought-tolerant landscape that conserves water and thrives in our climate.



SANTA ANA WATERSHED
PROJECT AUTHORITY
SAWPA's
Urban
Garden



Dive into SAWPA's
Water Use Efficiency
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Benefits of Low Water-Use Plants

Saves up to 50% more water than traditional landscaping!

Creates a habitat for birds, bees, butterflies, and other pollinators, supporting a healthy ecosystem.

Many low water-use plants naturally resist pests.

Low water-use plants are low maintenance.

These eco-friendly plants reduce runoff and help preserve our natural water resources.

Together, let's make water conservation a way of life.

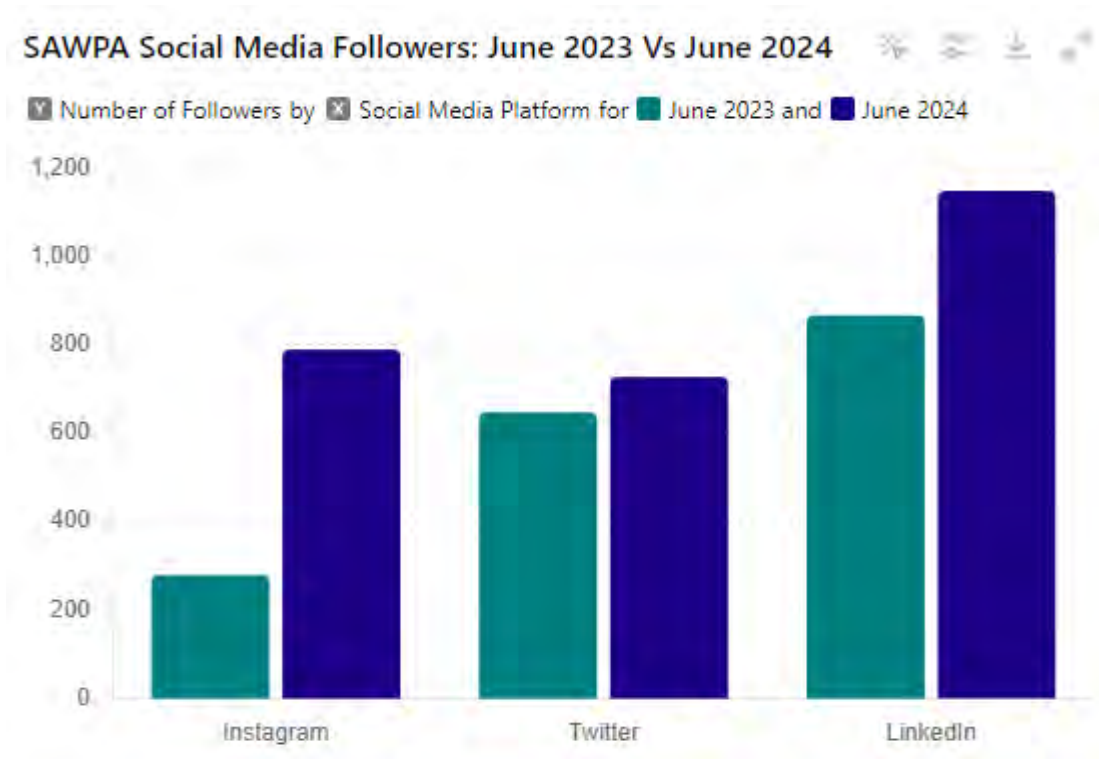


SANTA ANA WATERSHED
PROJECT AUTHORITY
SAWPA's
Urban
Garden



Dive into SAWPA's
Water Use Efficiency
efforts by scanning
the QR code or
visiting sawpa.gov.

- Staff has provided a comparison of SAWPA's social media following from 2023 to 2024. The results show significant growth across platforms: Instagram followers increased from 279 to 789, a 182.80% increase; Twitter followers grew from 647 to 727, a 12.36% increase; and LinkedIn followers rose from 866 to 1,148, a 3.56% increase.



- SAWPA's [website](#) received 212,336 visits from June 2023 to June 2024.

Top 5 pages visited:

1. Cloud Seeding Pilot Program	151,301 page views
2. SAWPA Homepage	21,910 page views
3. Public Notifications – Notice of Intention	8,997 page views
4. About SAWPA	2,689 page views
5. SAWPA Calendar	2,266 page views

- Staff attended the 33rd Annual WRCOG General Assembly on June 20.
- Staff attended the following webinars:
 - PRSA-IE: Brand Journalism: The Purpose, Passion & Power of Storytelling in PR
 - WaterReuse Communications Collaborative Group: The Science of Communication

- Updates were posted to the Authority's social media channels. Follow SAWPA on social media:
 - X: https://twitter.com/SAWPA_Water
 - Instagram: https://www.instagram.com/sawpa_water/
 - LinkedIn: <http://www.linkedin.com/company/santa-ana-watershed-project-authority>
 - YouTube: <https://www.youtube.com/@SAWPATUBE>