



**REGULAR MEETING  
OF THE  
CACHUMA OPERATION AND MAINTENANCE BOARD**

**Monday, April 24, 2023  
1:00 P.M.**

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**HOW TO OBSERVE THE MEETING**

Join by Teleconference or Attend in Person

*COMB follows Centers for Disease Control and Prevention (CDC), California Department of Public Health (CDPH) and local public health guidelines with respect to COVID-19 protocols and masking requirements, based on local conditions and needs. COMB will have available masks for use during public meetings.*

Members of the public may observe the meeting electronically as set forth below.

**Join via Video Conference**

<https://us02web.zoom.us/j/81169752498?pwd=YTlvV2d4Q0VNahpTTGxxZzFZV1VNQT09>

Passcode: 604023

**Join via Teleconference**

US: +1 669 900 6833    Webinar ID: 811 6975 2498    Passcode: 604023

**HOW TO MAKE A PUBLIC COMMENT**

Any member of the public may address the Board on any subject within the jurisdiction of the Board of Directors. The total time for this item will be limited by the President of the Board. The Board is not responsible for the content or accuracy of statements made by members of the public. No action will be taken by the Board on any Public Comment item.

**In person:** Those observing the meeting in person may make comments during designated public comment periods.

**By Video:** Those observing the meeting by video may make comments during designated public comment periods using the “raise hand” feature. Commenters will be required to unmute their respective microphone when providing comments.

**By Telephone:** Those observing the meeting by telephone may make comments during the designated public comment periods by pressing \*9 on the key pad to indicate such interest. Commenters will be prompted to press \*6 to unmute their respective telephone when called upon to speak.

**AMERICANS WITH DISABILITIES ACT**

In compliance with the Americans with Disabilities Act, if you need special assistance to review agenda materials or participate in this meeting, please contact the Cachuma Operation and Maintenance Board office at (805) 687-4011 at least 48 hours prior to the meeting to enable the Board to make reasonable arrangements.

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**REGULAR MEETING**  
**OF THE CACHUMA OPERATION AND MAINTENANCE BOARD**  
*held at*  
**3301 Laurel Canyon Road**  
**Santa Barbara, CA 93105**

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**Monday, April 24, 2023**

**1:00 PM**

**AGENDA**

**NOTICE:** This Meeting shall be conducted in-person and through remote access as authorized and in accordance with Government Code section 54953, AB 361 and AB 2449.

1. **CALL TO ORDER, ROLL CALL**
2. **PUBLIC COMMENT** *(Public may address the Board on any subject matter within the Board's jurisdiction. See "Notice to the Public" below.)*
3. **CONSENT AGENDA** *(All items on the Consent Agenda are considered to be routine and will be approved or rejected in a single motion. Any item placed on the Consent Agenda may be removed and placed on the Regular Agenda for discussion and possible action upon the request of any Board Member.)*  
Action: Recommend Approval of Consent Agenda by motion and roll call vote of the Board
  - a. Minutes of March 27, 2023 Regular Board Meeting
  - b. Investment of Funds
    - Financial Reports
    - Investment Reports
  - c. Review of Paid Claims
4. **VERBAL REPORTS FROM BOARD COMMITTEES**  
Receive verbal information regarding the following committee meetings:
  - Operations Committee Meeting – April 21, 2023
5. **FINANCIAL REVIEW – 3<sup>rd</sup> QUARTER FISCAL YEAR 2022-23**  
Action: Receive and file information on the 3<sup>rd</sup> Quarter Fiscal Year 2022-23 Financial Review
6. **NORTH AMERICAN LAKE MANAGEMENT SOCIETY (NALMS) - CONFERENCE PRESENTATION**  
Receive a presentation regarding tiered approaches to water quality monitoring
7. **CONTRACT AMENDMENT – PHASE II WATER QUALITY AND SEDIMENT MANAGEMENT STUDY**  
Action: Recommend approval by motion and roll call vote of the Board

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**8. GENERAL MANAGER REPORT**

Receive information from the General Manager on topics pertaining to COMB, including but not limited to the following:

- Administration
- U.S. Bureau of Reclamation
- Accomplishments/Goals by Division

**9. ENGINEER'S REPORT**

Receive information from the COMB Engineer, including but not limited to the following:

- Climate Conditions
- Water Quality
- January Storm Disaster Recovery
- Ortega Reservoir Cleaning and Repair
- South Coast Conduit Rehabilitation
- Infrastructure Improvement Projects Update

**10. OPERATIONS DIVISION REPORT**

Receive verbal information regarding the Operations Division, including but not limited to the following:

- Lake Cachuma Operations
- Operation and Maintenance Activities

**11. FISHERIES DIVISION REPORT**

Receive information from the Fisheries Division Manager, including, but not limited to the following:

- LSYR Steelhead Monitoring Elements
- Tributary Project Updates
- Surcharge Water Accounting
- Reporting/Outreach/Training

**12. PROGRESS REPORT ON LAKE CACHUMA OAK TREE PROGRAM**

Receive information regarding the Lake Cachuma Oak Tree Program including but not limited to the following:

- Maintenance and Monitoring

**13. MONTHLY CACHUMA PROJECT REPORTS**

Receive information regarding the Cachuma Project, including but not limited to the following:

- a. Cachuma Water Reports
- b. Cachuma Reservoir Current Conditions
- c. Lake Cachuma Quagga Survey

**14. DIRECTORS' REQUESTS FOR AGENDA ITEMS FOR FUTURE MEETING**

**15. [CLOSED SESSION]: CONFERENCE WITH LEGAL COUNSEL: POTENTIAL LITIGATION**

- a. [Government Code Section 54956.9(d)(1)]  
Name of matter: *Kimball-Griffith L.P. v. Brenda Wren Burman, et al.*, Case No. 2:20-cv-10647  
– Request for Declaratory and Injunctive Relief
- b. [Government Code Section 54956.9(d)(1)]  
Potential Litigation: Conference with Legal Counsel

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16. **[CLOSED SESSION]: ANNUAL PERFORMANCE REVIEW**
  - a. [Government Code Section 54957(b)(1)] Title: General Manager
  
17. **[CLOSED SESSION]: CONFERENCE WITH LABOR NEGOTIATORS**
  - a. [Government Code Section 54957.6(a)]  
Agency designated representatives: Board President  
Unrepresented Employee: General Manager
  
18. **RECONVENE INTO OPEN SESSION**
  - [Government Code Section 54957.7]  
Disclosure of actions taken in closed session, as applicable  
[Government Code Section 54957.1]
  
  - 15a. [Government Code Section 54956.9(d)(1)]  
Name of matter: *Kimball-Griffith L.P. v. Brenda Wren Burman, et al.*, Case No. 2:20-cv-10647  
– Request for Declaratory and Injunctive Relief
  
  - 15b. Potential Litigation: Conference with Legal Counsel
  - 16a. Annual Performance Review – General Manager
  - 17a. Conference with Labor Negotiators
  
19. **MODIFICATION OF GENERAL MANAGER’S COMPENSATION**  
Action: At Board discretion, consideration and approval of modification to General Manager compensation
  
20. **MEETING SCHEDULE**
  - **Regular Board Meeting – May 22, 2023 at 1:00 PM**
  - **Board Packages available on COMB website [www.cachuma-board.org](http://www.cachuma-board.org)**
  
21. **COMB ADJOURNMENT**

#### NOTICE TO PUBLIC

**Posting of Agenda:** This agenda was posted at COMB’s offices, located at 3301 Laurel Canyon Road, Santa Barbara, California, 93105 and on COMB’s website, in accordance with Government Code Section 54954.2. The agenda contains a brief general description of each item to be considered by the Governing Board. The Board reserves the right to modify the order in which agenda items are heard. Copies of staff reports or other written documents relating to each item of business are on file at the COMB offices and are available for public inspection during normal business hours. A person with a question concerning any of the agenda items may call COMB’s General Manager at (805) 687-4011.

**Written materials:** In accordance with Government Code Section 54957.5, written materials relating to an item on this agenda which are distributed to the Governing Board less than 72 hours (for a regular meeting) or 24 hours (for a special meeting) will be made available for public inspection at the COMB offices during normal business hours. The written materials may also be posted on COMB’s website subject to staff’s ability to post the documents before the scheduled meeting.

**Public Comment:** Any member of the public may address the Board on any subject within the jurisdiction of the Board. The total time for this item will be limited by the President of the Board. The Board is not responsible for the content or accuracy of statements made by members of the public. No action will be taken by the Board on any Public Comment item.

**Americans with Disabilities Act:** In compliance with the Americans with Disabilities Act, if you need special assistance to review agenda materials or participate in this meeting, please contact the Cachuma Operation and Maintenance Board office at (805) 687-4011 at least 48 hours prior to the meeting to enable the Board to make reasonable arrangements.

**Note:** If you challenge in court any of the Board’s decisions related to the listed agenda items you may be limited to raising only those issues you or someone else raised at any public hearing described in this notice or in written correspondence to the Governing Board prior to the public hearing.

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**REGULAR MEETING  
OF THE CACHUMA OPERATION AND MAINTENANCE BOARD**  
*held at*  
**3301 Laurel Canyon Road  
Santa Barbara, CA 93105**

**Monday, March 27, 2023  
1:00 PM**

**MINUTES**

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**1. CALL TO ORDER, ROLL CALL**

The regular meeting of the Board of Directors was called to order by President Holcombe at 1:02 PM.

**Directors Present:**

Polly Holcombe, Carpinteria Valley Water District  
Kristen Sneddon, City of Santa Barbara  
Kathleen Werner, Goleta Water District Alternate  
Cori Hayman, Montecito Water District

**General Counsel Present:**

William Carter - Musick, Peeler, Garrett, LLP

**Staff Present:**

Janet Gingras, General Manager  
Edward Lyons, Administrative Manager/CFO  
Joel Degner, Engineer/Operations Division Manager

Elijah Papan, Senior Program Analyst  
Timothy Robinson, Fisheries Division Manager  
Dorothy Turner, Administrative Assistant II

**Others Present:**

Dakota Corey, City of Santa Barbara  
Mark Preston, Resident  
Matthew Scrudato, SBCO Water Agency

Nicolas Turner, Montecito Water District  
Matt Young, SBCO Water Agency

**2. PUBLIC COMMENT**

Mr. Mark Preston posed a question regarding the Emergency Pumping Facility. Ms. Gingras advised that she could respond following the meeting.

**3. CONSENT AGENDA**

- a. Minutes of February 27, 2023 Regular Board Meeting
- b. Investment of Funds
  - Financial Reports
  - Investment Reports
- c. Review of Paid Claims

Ms. Gingras presented the Consent Agenda items, referencing the Minutes of the last meeting and inviting Mr. Lyons to comment upon the Financial Statements and Paid Claims. Mr. Lyons reviewed revenues and pass-through revenues and then directed the Board's attention to the Paid Claims report. He highlighted various expenditures of note, including remittances to Cushman Contracting Corp., State Water Resources Control Board, Flowers & Associates and HDR Engineering.

Director Hayman motioned to approve item 3a only, followed by a second from Director Sneddon. The motion passed with a vote of four in favor and two abstentions.

**Ayes:** Sneddon, Hayman, Holcombe

**Nays:**

**Absent:**

**Abstain:** Werner

Director Hayman provided a second motion to approve items 3b and 3c. Director Sneddon seconded the motion which passed unanimously with a vote of six in favor.

**Ayes:** Sneddon, Hayman, Werner, Holcombe

**Nays:**

**Absent:**

**Abstain:**

#### **4. PURCHASE OF FLEET VEHICLES**

Ms. Gingras introduced this item, seeking board approval for the purchase of two vehicles, a dump truck for the Operations Division and an electric vehicle for the Fisheries Division. Mr. Degner provided background in support of the need for a new dump truck. The proposed vehicle has an added advantage in that it is rated to tow large equipment such as COMB's backhoe. Ms. Gingras advised that COMB has an employee with a Class A driving license, which will be required for towing large equipment. Mr. Robinson noted that COMB has waited a very long time to acquire an electric vehicle due to limited availability. The proposed vehicle, a Ford F-150 Lightning, has a long battery range and includes a charging station. Director Sneddon suggested that a pre-approval process be instituted so that staff can act quickly when opportunities such as these present themselves.

Director Sneddon motioned to approve the vehicle purchases. Director Hayman seconded the motion which carried unanimously with a vote of six in favor.

**Ayes:** Sneddon, Hayman, Werner, Holcombe

**Nays:**

**Absent:**

**Abstain:**

#### **5. RESOLUTION NO. 778 – COMB ANNEX TO THE 2022 SANTA BARBARA COUNTY MULTIJURISDICTIONAL HAZARD MITIGATION PLAN**

Ms. Gingras introduced COMB's annex for inclusion in the 2022 update to the Santa Barbara County Multi-Jurisdictional Hazard Mitigation Plan (MJHMP) and reported that the County consultant has confirmed that CalOES and FEMA have approved the County's plan which now pends for adoption by the Board of Supervisors. She invited Mr. Papen to comment. Mr. Papen noted that an approved MJHMP allows for pursuit of funding opportunities to mitigate future hazards. The update includes greater emphasis on cyber-threats and power outages and provides for mitigation funding under DR-4683, to repair January storm damages. Mr. Papen fielded questions from the Board.

Director Sneddon motioned to approve COMB's annex, followed by a second from Alternate Director Werner. The motion passed with a unanimous vote of six in favor.

**Ayes:** Sneddon, Hayman, Werner, Holcombe  
**Nays:**  
**Absent:**  
**Abstain:**

## 6. GENERAL MANAGER REPORT

- Administration
- Personnel
- Operations Division

Ms. Gingras presented the General Manager report with an update on second period US Bureau of Reclamation water rates, Cachuma Project spill and surplus water, and the pursuit of FEMA reimbursement for the January 2023 Winter Storms and Debris Flow. Additionally, Ms. Gingras, with great pride, listed recent staff certification accomplishments, noting that COMB now has five D3 certified operators. Finally, she reported the successful South Coast Conduit shutdown in the Carpinteria Reach.

## 7. ENGINEER'S REPORT

- Climate Conditions
- Water Quality
- January Storm Disaster Recovery
- South Coast Conduit Rehabilitation
- Infrastructure Improvement Projects Update

Mr. Degner presented the Engineer's report and noted it had been an incredible year of critical projects completed. He commented that 2022-23 is likely ranked as the fourth wettest year in Cachuma Project history. He discussed the South Coast Conduit shutdown in the Carpinteria Reach, noting that it was the most complicated shutdown that Mr. Degner has overseen. This shutdown, which fulfilled a long-standing Category 1 Bureau recommendation, had been many years in the planning due to its complexity. He noted that the Lillingston project is deferred to next year while other projects are proceeding well. Mr. Degner's report was received with compliments and thanks.

## 8. OPERATIONS DIVISION REPORT

- Lake Cachuma Operations
- Operation and Maintenance Activities

Mr. Degner presented the Operations Division report and acknowledged the cooperation of Carpinteria staff during the recent shutdown related to the South Coast Conduit AVAR/Blow Off project. He also mentioned that the shutdown included repair of the worst structure on the conduit, which staff had previously been unable to touch. Mr. Degner advised that staff was preparing to clean Ortega reservoir to facilitate its subsequent repairs. He fielded questions from the Board.

## 9. FISHERIES DIVISION REPORT

- LSYR Steelhead Monitoring Elements
- Tributary Project Updates
- Surcharge Water Accounting
- Reporting/Outreach/Training

Mr. Robinson presented the Fisheries Division report noting that target flows continue to be met and the upper release point at Hilton Creek is still operating on gravity flow. Staff continues routine monitoring efforts. Mr. Robinson reported that trapping will not proceed until COMB acquires both a CESA permit and a Scientific Collection permit. With respect to storm damages, Mr. Robinson advised that eleven fish passages need some form of repair. He is navigating both State and Federal repair funding paths. Finally, Mr. Robinson noted that all fish related accounts are fully charged for the first time since 2011 and will remain so until the spill ceases.

## 10. PROGRESS REPORT ON LAKE CACHUMA OAK TREE PROGRAM

- Maintenance and Monitoring

Mr. Robinson presented the Oak Tree report noting that a wind event at the dam had blown down some trees that had to be shored up. He reported that the annual inventory continues and that the parking lot at Live Oak was being repaired by a contractor hired by County Parks. He fielded questions from the Board.

## 11. MONTHLY CACHUMA PROJECT REPORTS

- a. Cachuma Water Reports
- b. Cachuma Reservoir Current Conditions
- c. Lake Cachuma Quagga Survey

Ms. Gingras presented the Cachuma Project reports and provided details of water balances, carryover losses and mid-year water allocations.

## 12. DIRECTORS' REQUESTS FOR AGENDA ITEMS FOR FUTURE MEETING

There were no requests from Directors for future agenda items.

## 13. [CLOSED SESSION]: CONFERENCE WITH LEGAL COUNSEL: POTENTIAL LITIGATION

- a. [Government Code Section 54956.9(d)(1)]  
Name of matter: *Kimball-Griffith L.P. v. Brenda Wren Burman, et al.*, Case No. 2:20-cv-10647  
– Request for Declaratory and Injunctive Relief
- b. [Government Code Section 54956.9(d)(1)]  
Name of matter: *Stephen Timothy Buynak, Jr. and Gloria Ann Buynak, as Trustees of the Buynak 1991 Family Revocable Trust v. United States Department of the Interior, et al.*, Case No. 2:22-cv-07271 – Complaint For Injunctive and Declaratory Relief to Enforce Plaintiffs' Riparian Water Rights
- c. [Government Code Section 54956.9(d)(1)]  
Potential Litigation: Conference with Legal Counsel

The Board adjourned to Closed Session at 3:18 PM.

## 14. RECONVENE INTO OPEN SESSION

- [Government Code Section 54957.7]  
Disclosure of actions taken in closed session, as applicable  
[Government Code Section 54957.1]

- 13a. [Government Code Section 54956.9(d)(1)]  
Name of matter: *Kimball-Griffith L.P. v. Brenda Wren Burman, et al.*, Case No. 2:20-cv-10647  
– Request for Declaratory and Injunctive Relief
  
- 13b. [Government Code Section 54956.9(d)(1)]  
Name of matter: *Stephen Timothy Buynak, Jr. and Gloria Ann Buynak, as Trustees of the Buynak 1991 Family Revocable Trust v. United States Department of the Interior, et al.*, Case No. 2:22-cv-07271 – Complaint For Injunctive and Declaratory Relief to Enforce Plaintiffs’ Riparian Water Rights
  
- 13c. Potential Litigation: Conference with Legal Counsel

The Board reconvened into Open Session at 4:34 PM. There was no reportable action for items 13a through 13c.

**15. MEETING SCHEDULE**

- **Regular Board Meeting – April 24, 2023 at 1:00 PM**
- **Board Packages available on COMB website [www.cachuma-board.org](http://www.cachuma-board.org)**

**16. COMB ADJOURNMENT**

There being no further business, the meeting was adjourned at 4:35 PM.

Respectfully submitted,

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Janet Gingras, Secretary of the Board

	<i>Approved</i>
√	<i>Unapproved</i>

**APPROVED:**

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Polly Holcombe, President of the Board

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**Cachuma Operation & Maintenance Board**  
**Statement of Net Position**  
As of March 31, 2023  
**UNAUDITED**

March 31, 2023

**ASSETS**

**Current Assets**

**Checking/Savings**

**Trust Funds**

1210 · Warren Act Trust Fund	\$	328,658.66
1220 · Renewal Fund		41,122.33

<b>Total Trust Funds</b>		\$ 369,780.99
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1050 · General Fund		297,063.96
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1100 · Revolving Fund		294,345.25
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<b>Total Checking/Savings</b>		<u>961,190.20</u>
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**Accounts Receivable**

1301 · Accounts Receivable		1,570.00
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1320 · Quarterly Assessments Receivable		1,085,656.00
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<b>Total Accounts Receivable</b>		<u>1,087,226.00</u>
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**Other Current Assets**

1010 · Petty Cash		500.00
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1200 · LAIF		523,791.68
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1311 · Cachuma Entitlement Receivable		147,233.44
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1303 · Bradbury SOD Act Assessments Receivable		220,819.00
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1304 · Lauro Dam SOD Assessments Receivable		33,776.14
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1305 · Accrued Interest Receivable		2,152.92
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1400 · Prepaid Insurance		11,512.72
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1900 · Deposits		5,868.34
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<b>Total Other Current Assets</b>		<u>945,654.24</u>
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<b>Total Current Assets</b>		<u>2,994,070.44</u>
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**Fixed Assets**

1500 · Vehicles		514,898.60
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1505 · Office Furniture & Equipment		258,022.85
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1510 · Mobile Offices		424,910.38
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1515 · Field Equipment		546,703.62
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1525 · Paving		38,351.00
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1530 · Construction in Progress		258,766.83
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1550 · Accumulated Depreciation		(1,084,071.34)
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<b>Total Fixed Assets</b>		<u>957,581.94</u>
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**Other Assets**

1910 · Long Term Bradbury SOD Act Assessments Receivable		3,836,553.07
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1920 · Long Term Lauro SOD Act Assessments Receivable		705,536.76
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1922 · Deferred Outflow of Resources (GASB 68)		479,670.00
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1923 · Deferred Outflow (GASB 75)		761,719.00
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<b>Total Other Assets</b>		<u>5,783,478.83</u>
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<b>TOTAL ASSETS</b>		<u><u>\$ 9,735,131.21</u></u>
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**Cachuma Operation & Maintenance Board**  
**Statement of Net Position**  
As of March 31, 2023  
**UNAUDITED**

March 31, 2023

**LIABILITIES & EQUITY**

**Liabilities**

**Current Liabilities**

**Accounts Payable**

2200 · Accounts Payable \$ 21,918.91

**Total Accounts Payable** 21,918.91

**Other Current Liabilities**

2505 · Accrued Wages 26,770.37

2550 · Vacation/Sick 223,146.58

2561 · Bradbury Dam SOD Act 220,818.99

2563 · Lauro Dam SOD Act 33,776.14

2565 · Accrued Interest SOD Act 40,842.00

2590 · Deferred Revenue 369,780.99

**Total Other Current Liabilities** 915,135.07

**Total Current Liabilities** 937,053.98

**Long Term Liabilities**

2602 · Long Term SOD Act Liability-Bradbury 3,836,543.07

2603 · Long Term SOD Act Liability - Lauro 705,536.76

2604 · OPEB Long Term Liability 3,357,104.00

2610 · Net Pension Liability (GASB 68) 1,162,437.00

2611 · Deferred Inflow of Resources (GASB 68) 1,102,745.00

2612 · Deferred Inflow of Resources (GASB 75) 1,140,861.00

**Total Long Term Liabilities** 11,305,226.83

**Total Liabilities** 12,242,280.81

**Net Position**

3000 · Opening Balance Net Position (5,296,580.05)

3901 · Retained Net Assets 1,764,686.65

**Net Income** 1,024,743.80

**Total Net Position** (2,507,149.60)

**TOTAL LIABILITIES & NET POSITION** \$ **9,735,131.21**



**Cachuma Operation & Maintenance Board**  
**Statement of Revenues and Expenditures (Unaudited)**  
 Budget vs. Actuals July 2022 - June 2023

	Fisheries				Operations				TOTAL			
	Jul '22 - Mar 23	Budget	\$ Over Budget	% of Budget	Jul '22 - Mar 23	Budget	\$ Over Budget	% of Budget	Jul '22 - Mar 23	Budget	\$ Over Budget	% of Budget
<b>Revenue</b>												
<b>3000 REVENUE</b>												
3001 · O&M Budget (Qtrly Assessments)	\$ 1,153,196.00	\$ 1,153,196.00	\$ -	100.0%	\$ 4,951,331.00	\$ 4,951,331.00	\$ -	100.0%	\$ 6,104,527.00	\$ 6,104,527.00	\$ -	100.0%
3006 · Warren Act	52,843.06	118,293.00	-65,449.94	44.67%	0.00				52,843.06	118,293.00	-65,449.94	44.67%
3007 · Renewal Fund	14,162.87	155,723.00	-141,560.13	9.1%	0.00				14,162.87	155,723.00	-141,560.13	9.1%
3010 · Interest Income	0.00				16,230.35	0.00	16,230.35	100.0%	16,230.35	0.00	16,230.35	100.0%
3014 · Non-Member Agency Revenue	30,000.00	0.00	30,000.00	100.0%	0.00				30,000.00	0.00	30,000.00	100.0%
3020 · Misc Income	0.00				17,198.17	0.00	17,198.17	100.0%	17,198.17	0.00	17,198.17	100.0%
3021 · Grant Income	2,690.43				442.00	0.00	3,132.43	100.0%	3,132.43	0.00	3,132.43	100.0%
3035 · Cachuma Project Betterment Fund	100,000.00	90,000.00	10,000.00	111.11%	0.00				100,000.00	90,000.00	10,000.00	111.11%
3044 · DWR Drought Relief Grant	0.00				1,140,123.40	2,250,000.00	-1,109,876.60	50.67%	1,140,123.40	2,250,000.00	-1,109,876.60	50.67%
3045 · USBR WaterSmart Grant	0.00				743,950.00	750,000.00	-6,050.00	99.19%	743,950.00	750,000.00	-6,050.00	99.19%
3046 · CVWD Cooperative Agrmnt Funding	0.00				0.00	550,000.00	-550,000.00	0.0%	0.00	550,000.00	-550,000.00	0.0%
<b>Total 3000 REVENUE</b>	<b>\$ 1,352,892.36</b>	<b>\$ 1,517,212.00</b>	<b>\$ (164,319.64)</b>	<b>89.17%</b>	<b>\$ 6,869,274.92</b>	<b>\$ 8,501,331.00</b>	<b>\$ (1,632,056.08)</b>	<b>80.8%</b>	<b>\$ 8,222,167.28</b>	<b>\$ 10,018,543.00</b>	<b>\$ (1,796,375.72)</b>	<b>82.07%</b>
<b>Expense</b>												
3100 · LABOR - OPERATIONS	\$ -	\$ -	\$ -	0.0%	\$ 716,370.84	\$ 1,090,525.00	\$ (374,154.16)	65.69%	\$ 716,370.84	\$ 1,090,525.00	\$ (374,154.16)	65.69%
<b>3200 VEH &amp; EQUIPMENT</b>												
3201 · Vehicle/Equip Mtce	0.00				28,748.81	40,000.00	-11,251.19	71.87%	28,748.81	40,000.00	-11,251.19	71.87%
3202 · Fixed Capital	0.00				117,138.31	150,000.00	-32,861.69	78.09%	117,138.31	150,000.00	-32,861.69	78.09%
3203 · Equipment Rental	0.00				0.00	5,000.00	-5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
3204 · Miscellaneous	0.00				7,042.96	10,000.00	-2,957.04	70.43%	7,042.96	10,000.00	-2,957.04	70.43%
<b>Total 3200 VEH &amp; EQUIPMENT</b>	<b>0.00</b>				<b>152,930.08</b>	<b>205,000.00</b>	<b>-52,069.92</b>	<b>74.6%</b>	<b>152,930.08</b>	<b>205,000.00</b>	<b>-52,069.92</b>	<b>74.6%</b>
<b>3300 · CONTRACT LABOR</b>												
3301 · Conduit, Meter, Valve & Misc	0.00				6,888.93	20,000.00	-13,111.07	34.45%	6,888.93	20,000.00	-13,111.07	34.45%
3302 · Buildings & Roads	0.00				6,681.96	20,000.00	-13,318.04	33.41%	6,681.96	20,000.00	-13,318.04	33.41%
3303 · Reservoirs	0.00				16,657.40	60,000.00	-43,342.60	27.76%	16,657.40	60,000.00	-43,342.60	27.76%
3304 · Engineering, Misc Services	0.00				0.00	30,000.00	-30,000.00	0.0%	0.00	30,000.00	-30,000.00	0.0%
<b>Total 3300 · CONTRACT LABOR</b>	<b>0.00</b>				<b>30,228.29</b>	<b>130,000.00</b>	<b>-99,771.71</b>	<b>23.25%</b>	<b>30,228.29</b>	<b>130,000.00</b>	<b>-99,771.71</b>	<b>23.25%</b>
<b>3400 · MATERIALS &amp; SUPPLIES</b>												
3401 · Conduit, Meter, Valve & Misc	0.00				45,657.41	65,000.00	-19,342.59	70.24%	45,657.41	65,000.00	-19,342.59	70.24%
3402 · Buildings & Roads	0.00				693.10	15,000.00	-14,306.90	4.62%	693.10	15,000.00	-14,306.90	4.62%
3403 · Reservoirs	0.00				3,007.11	5,000.00	-1,992.89	60.14%	3,007.11	5,000.00	-1,992.89	60.14%
<b>Total 3400 · MATERIALS &amp; SUPPLIES</b>	<b>0.00</b>				<b>49,357.62</b>	<b>85,000.00</b>	<b>-35,642.38</b>	<b>58.07%</b>	<b>49,357.62</b>	<b>85,000.00</b>	<b>-35,642.38</b>	<b>58.07%</b>
<b>3500 · OTHER EXPENSES</b>												
3501 · Utilities	0.00				5,168.82	7,000.00	-1,831.18	73.84%	5,168.82	7,000.00	-1,831.18	73.84%
3502 · Uniforms	0.00				344.79	5,750.00	-5,405.21	6.0%	344.79	5,750.00	-5,405.21	6.0%
3503 · Communications	0.00				7,973.75	15,800.00	-7,826.25	50.47%	7,973.75	15,800.00	-7,826.25	50.47%
3504 · USA & Other Services	0.00				4,294.85	7,250.00	-2,955.15	59.24%	4,294.85	7,250.00	-2,955.15	59.24%
3505 · Miscellaneous	0.00				7,805.84	12,000.00	-4,194.16	65.05%	7,805.84	12,000.00	-4,194.16	65.05%
3506 · Training	0.00				2,718.93	3,000.00	-281.07	90.63%	2,718.93	3,000.00	-281.07	90.63%
3507 · Permits	0.00				15,622.17	0.00	15,622.17	100.0%	15,622.17	0.00	15,622.17	100.0%
<b>Total 3500 · OTHER EXPENSES</b>	<b>0.00</b>				<b>43,929.15</b>	<b>50,800.00</b>	<b>-6,870.85</b>	<b>86.48%</b>	<b>43,929.15</b>	<b>50,800.00</b>	<b>-6,870.85</b>	<b>86.48%</b>

**Cachuma Operation & Maintenance Board**  
**Statement of Revenues and Expenditures (Unaudited)**  
 Budget vs. Actuals July 2022 - June 2023

	Fisheries				Operations				TOTAL			
	Jul '22 - Mar 23	Budget	\$ Over Budget	% of Budget	Jul '22 - Mar 23	Budget	\$ Over Budget	% of Budget	Jul '22 - Mar 23	Budget	\$ Over Budget	% of Budget
4100 · LABOR - FISHERIES	547,589.56	785,564.00	-237,974.44	69.71%	0.00				547,589.56	785,564.00	-237,974.44	69.71%
4200 · VEHICLES & EQUIP - FISHERIES												
4270 · Vehicle/Equip Mtce	19,180.99	30,000.00	-10,819.01	63.94%	0.00				19,180.99	30,000.00	-10,819.01	63.94%
4280 · Fixed Capital	97,393.73	90,000.00	7,393.73	108.22%	0.00				97,393.73	90,000.00	7,393.73	108.22%
4290 · Miscellaneous	0.00	2,500.00	-2,500.00	0.0%	0.00				0.00	2,500.00	-2,500.00	0.0%
Total 4200 · VEHICLES & EQUIP - FISHERIES	116,574.72	122,500.00	-5,925.28	95.16%	0.00				116,574.72	122,500.00	-5,925.28	95.16%
4220 · CONTRACT LABOR - FISHERIES												
4221 · Meters & Valves	0.00	3,000.00	-3,000.00	0.0%	0.00				0.00	3,000.00	-3,000.00	0.0%
4222 · Fish Projects Maintenance	4,921.00	11,100.00	-6,179.00	44.33%	0.00				4,921.00	11,100.00	-6,179.00	44.33%
Total 4220 · CONTRACT LABOR - FISHERIES	4,921.00	14,100.00	-9,179.00	34.9%	0.00				4,921.00	14,100.00	-9,179.00	34.9%
4300 · MATERIALS/SUPPLIES - FISHERIES												
4390 · Miscellaneous	4,079.99	7,000.00	-2,920.01	58.29%	0.00				4,079.99	7,000.00	-2,920.01	58.29%
Total 4300 · MATERIALS/SUPPLIES - FISHERIES	4,079.99	7,000.00	-2,920.01	58.29%	0.00				4,079.99	7,000.00	-2,920.01	58.29%
4500 · OTHER EXPENSES - FISHERIES												
4502 · Uniforms	810.76	5,000.00	-4,189.24	16.22%	0.00				810.76	5,000.00	-4,189.24	16.22%
Total 4500 · OTHER EXPENSES - FISHERIES	810.76	5,000.00	-4,189.24	16.22%	0.00				810.76	5,000.00	-4,189.24	16.22%
4999 · GENERAL & ADMINISTRATIVE												
5000 · Director Fees	0.00				4,396.60	12,400.00	-8,003.40	35.46%	4,396.60	12,400.00	-8,003.40	35.46%
5001 · Director Mileage	0.00				28.35	600.00	-571.65	4.73%	28.35	600.00	-571.65	4.73%
5100 · Legal	0.00				59,585.29	75,000.00	-15,414.71	79.45%	59,585.29	75,000.00	-15,414.71	79.45%
5101 · Audit	0.00				14,774.51	22,750.00	-7,975.49	64.94%	14,774.51	22,750.00	-7,975.49	64.94%
5150 · Unemployment Tax	0.00				0.00	5,000.00	-5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
5200 · Liability Insurance	0.00				38,021.94	33,326.00	4,695.94	114.09%	38,021.94	33,326.00	4,695.94	114.09%
5310 · Postage/Office Exp	0.00				4,880.50	6,000.00	-1,119.50	81.34%	4,880.50	6,000.00	-1,119.50	81.34%
5311 · Office Equip/Leases	0.00				5,304.23	13,440.00	-8,135.77	39.47%	5,304.23	13,440.00	-8,135.77	39.47%
5312 · Misc Admin Expenses	0.00				10,641.24	14,000.00	-3,358.76	76.01%	10,641.24	14,000.00	-3,358.76	76.01%
5313 · Communications	0.00				6,357.05	9,500.00	-3,142.95	66.92%	6,357.05	9,500.00	-3,142.95	66.92%
5314 · Utilities	0.00				6,869.10	9,737.00	-2,867.90	70.55%	6,869.10	9,737.00	-2,867.90	70.55%
5315 · Membership Dues	0.00				11,717.70	11,450.00	267.70	102.34%	11,717.70	11,450.00	267.70	102.34%
5316 · Admin Fixed Assets	0.00				3,551.83	8,000.00	-4,448.17	44.4%	3,551.83	8,000.00	-4,448.17	44.4%
5318 · Computer Consultant	0.00				14,372.21	25,000.00	-10,627.79	57.49%	14,372.21	25,000.00	-10,627.79	57.49%
5325 · Emp Training/Subscriptions	0.00				0.00	2,000.00	-2,000.00	0.0%	0.00	2,000.00	-2,000.00	0.0%
5330 · Admin Travel/Conferences	0.00				2,815.73	2,000.00	815.73	140.79%	2,815.73	2,000.00	815.73	140.79%
5331 · Public Information	0.00				1,853.76	3,500.00	-1,646.24	52.97%	1,853.76	3,500.00	-1,646.24	52.97%
Total 4999 · GENERAL & ADMINISTRATIVE	0.00				185,170.04	253,703.00	-68,532.96	72.99%	185,170.04	253,703.00	-68,532.96	72.99%
5299 · ADMIN LABOR	0.00				410,851.55	631,303.00	-220,451.45	65.08%	410,851.55	631,303.00	-220,451.45	65.08%
5400 · GENERAL & ADMIN - FISHERIES												
5407 · Legal - FD	4,784.00	25,000.00	-20,216.00	19.14%	0.00				4,784.00	25,000.00	-20,216.00	19.14%
5410 · Postage / Office Supplies	2,684.94	4,000.00	-1,315.06	67.12%	0.00				2,684.94	4,000.00	-1,315.06	67.12%
5411 · Office Equipment / Leases	2,784.05	8,533.00	-5,748.95	32.63%	0.00				2,784.05	8,533.00	-5,748.95	32.63%
5412 · Misc. Admin Expense	3,864.04	7,500.00	-3,635.96	51.52%	0.00				3,864.04	7,500.00	-3,635.96	51.52%
5413 · Communications	3,423.03	4,455.00	-1,031.97	76.84%	0.00				3,423.03	4,455.00	-1,031.97	76.84%
5414 · Utilities	3,698.76	5,243.00	-1,544.24	70.55%	0.00				3,698.76	5,243.00	-1,544.24	70.55%
5415 · Membership Dues	6,547.30	7,200.00	-652.70	90.94%	0.00				6,547.30	7,200.00	-652.70	90.94%
5416 · Admin Fixed Assets	1,912.53	3,000.00	-1,087.47	63.75%	0.00				1,912.53	3,000.00	-1,087.47	63.75%
5418 · Computer Consultant	7,738.88	15,000.00	-7,261.12	51.59%	0.00				7,738.88	15,000.00	-7,261.12	51.59%
5425 · Employee Education/Subscription	250.00	2,500.00	-2,250.00	10.0%	0.00				250.00	2,500.00	-2,250.00	10.0%
5426 · Director Fees	2,367.40	6,700.00	-4,332.60	35.33%	0.00				2,367.40	6,700.00	-4,332.60	35.33%

Item #3b

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**Cachuma Operation & Maintenance Board**  
**Statement of Revenues and Expenditures (Unaudited)**  
 Budget vs. Actuals July 2022 - June 2023

	Fisheries				Operations				TOTAL			
	Jul '22 - Mar 23	Budget	\$ Over Budget	% of Budget	Jul '22 - Mar 23	Budget	\$ Over Budget	% of Budget	Jul '22 - Mar 23	Budget	\$ Over Budget	% of Budget
5427 · Director Mileage	15.26	300.00	-284.74	5.09%	0.00				15.26	300.00	-284.74	5.09%
5430 · Travel	3,796.32	2,500.00	1,296.32	151.85%	0.00				3,796.32	2,500.00	1,296.32	151.85%
5431 · Public Information	998.18	1,500.00	-501.82	66.55%	0.00				998.18	1,500.00	-501.82	66.55%
5441 · Audit	7,955.49	12,250.00	-4,294.51	64.94%	0.00				7,955.49	12,250.00	-4,294.51	64.94%
5443 · Liab & Property Ins	20,473.34	17,745.00	2,728.34	115.38%	0.00				20,473.34	17,745.00	2,728.34	115.38%
<b>Total 5400 · GENERAL &amp; ADMIN - FISHERIES</b>	<b>73,293.52</b>	<b>123,426.00</b>	<b>-50,132.48</b>	<b>59.38%</b>	<b>0.00</b>				<b>73,293.52</b>	<b>123,426.00</b>	<b>-50,132.48</b>	<b>59.38%</b>
5499 · ADMIN LABOR-FISHERIES	168,734.13	274,622.00	-105,887.87	61.44%	0.00				168,734.13	274,622.00	-105,887.87	61.44%
5510 · Integrated Reg. Water Mgt Plan	0.00				744.03	5,000.00	-4,255.97	14.88%	744.03	5,000.00	-4,255.97	14.88%
<b>6199 · SPECIAL PROJECTS</b>												
6097 · GIS and Mapping	0.00				14,387.96	10,000.00	4,387.96	143.88%	14,387.96	10,000.00	4,387.96	143.88%
6105 · ROW Management Program	0.00				0.00	20,000.00	-20,000.00	0.0%	0.00	20,000.00	-20,000.00	0.0%
6110 · SCADA Improvements & Support	0.00				3,968.65	35,000.00	-31,031.35	11.34%	3,968.65	35,000.00	-31,031.35	11.34%
6115 · COMB Blding Improvemnts & Maint	0.00				21,113.68	45,000.00	-23,886.32	46.92%	21,113.68	45,000.00	-23,886.32	46.92%
6125 · 2023 Winter Storm Repairs	0.00				18,810.20	0.00	18,810.20	100.0%	18,810.20	0.00	18,810.20	100.0%
6138 · Cachuma Watershed Mgmt Study	0.00				10,868.55	50,000.00	-39,131.45	21.74%	10,868.55	50,000.00	-39,131.45	21.74%
<b>Total 6199 · SPECIAL PROJECTS</b>	<b>0.00</b>				<b>69,149.04</b>	<b>160,000.00</b>	<b>-90,850.96</b>	<b>43.22%</b>	<b>69,149.04</b>	<b>160,000.00</b>	<b>-90,850.96</b>	<b>43.22%</b>
<b>6000 · INFRASTRUCTURE IMPROVEMENT PROJ</b>												
6096 · SCC Structure Rehabilitation	0.00				36,319.65	440,000.00	-403,680.35	8.25%	36,319.65	440,000.00	-403,680.35	8.25%
6120 · Lake Cachuma Secured Pipeline	0.00				4,470,569.95	4,400,000.00	70,569.95	101.6%	4,470,569.95	4,400,000.00	70,569.95	101.6%
6136 · SCC Isolation Valve Evaluation	0.00				46,255.50	500,000.00	-453,744.50	9.25%	46,255.50	500,000.00	-453,744.50	9.25%
6137 · SCC Lower Reach Lateral Structu	0.00				0.00	550,000.00	-550,000.00	0.0%	0.00	550,000.00	-550,000.00	0.0%
<b>Total 6000 · INFRASTRUCTURE IMPROVEMENT PROJ</b>	<b>0.00</b>				<b>4,553,145.10</b>	<b>5,890,000.00</b>	<b>-1,336,854.90</b>	<b>77.3%</b>	<b>4,553,145.10</b>	<b>5,890,000.00</b>	<b>-1,336,854.90</b>	<b>77.3%</b>
<b>6200 · PROGRAM SUPPORT SERVICES</b>												
6201 · FMP Implementation	692.10	42,000.00	-41,307.90	1.65%	0.00				692.10	42,000.00	-41,307.90	1.65%
6202 · GIS and Mapping	7,568.51	10,000.00	-2,431.49	75.69%	0.00				7,568.51	10,000.00	-2,431.49	75.69%
6205 · USGS Stream Gauge Program	52,770.00	105,000.00	-52,230.00	50.26%	0.00				52,770.00	105,000.00	-52,230.00	50.26%
6225 · 2023 Winter Storm Repairs	4,222.97	0.00	4,222.97	100.0%	0.00				4,222.97	0.00	4,222.97	100.0%
<b>Total 6200 · PROGRAM SUPPORT SERVICES</b>	<b>65,253.58</b>	<b>157,000.00</b>	<b>-91,746.42</b>	<b>41.56%</b>	<b>0.00</b>				<b>65,253.58</b>	<b>157,000.00</b>	<b>-91,746.42</b>	<b>41.56%</b>
<b>6300 · HABITAT IMPROVEMENT PROJECTS</b>												
6207 · Oak Tree Restoration Program	1,071.48	18,000.00	-16,928.52	5.95%	0.00				1,071.48	18,000.00	-16,928.52	5.95%
6303 · Tributary Projects Support	3,219.00	10,000.00	-6,781.00	32.19%	0.00				3,219.00	10,000.00	-6,781.00	32.19%
<b>Total 6300 · HABITAT IMPROVEMENT PROJECTS</b>	<b>4,290.48</b>	<b>28,000.00</b>	<b>-23,709.52</b>	<b>15.32%</b>	<b>0.00</b>				<b>4,290.48</b>	<b>28,000.00</b>	<b>-23,709.52</b>	<b>15.32%</b>
<b>Total Expense</b>	<b>\$ 985,547.74</b>	<b>\$ 1,517,212.00</b>	<b>\$ (531,664.26)</b>	<b>64.96%</b>	<b>\$ 6,211,875.74</b>	<b>\$ 8,501,331.00</b>	<b>\$ (2,289,455.26)</b>	<b>73.07%</b>	<b>\$ 7,197,423.48</b>	<b>\$ 10,018,543.00</b>	<b>\$ (2,821,119.52)</b>	<b>71.84%</b>
<b>Net Surplus / Deficit</b>	<b>\$ 367,344.62</b>	<b>\$ -</b>	<b>\$ 367,344.62</b>	<b>100.0%</b>	<b>\$ 657,399.18</b>	<b>\$ -</b>	<b>\$ 657,399.18</b>	<b>100.0%</b>	<b>\$ 1,024,743.80</b>	<b>\$ -</b>	<b>\$ 1,024,743.80</b>	<b>100.0%</b>

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# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	April 24, 2023
Submitted by:	Janet Gingras

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**SUBJECT:** Investment Report – March 31, 2023

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### **RECOMMENDATION**

The Board of Directors receive and file the Cachuma Operation & Maintenance Board Investment Report as of March 31, 2023.

### **DISCUSSION**

Cash and investment programs are maintained in accordance with California Government Code Section 53600 et seq. and COMB's adopted investment policy. These policies ensure proper control and safeguards are maintained throughout the financial transaction process. Pursuant to State law, the COMB Board adopts a detailed investment policy through a Board resolution on an annual basis.

Reports on COMB's investment portfolio and cash position are developed and presented to the COMB Board on a monthly basis, in conformity with the California Government Code.

#### Unrestricted Cash

Unrestricted cash exceeding current operating needs is invested in LAIF to generate interest income. The average effective yield rate, as of March 2023, is reported at 2.831%.

See Table 1 below for a summary of balances held in unrestricted accounts.

Table 1			
Unrestricted Reserve Funds			
Local Agency Investment Fund (LAIF)			
	2/28/2023	\$	1,358,791.68
(+) Deposits/Credits			-
(-) Checks/Withdrawals			(835,000.00)
Statement Balance	3/31/2023	\$	523,791.68

#### Restricted Cash


The Cachuma Project Warren Act Trust Fund (Trust Fund) and Cachuma Project Master Contract Renewal Fund (Renewal Fund) are two separate funds that have been established through contracts with the U.S. Bureau of Reclamation (Reclamation). The Trust Fund and the Renewal Fund require annual and five-year plans which are used to inform the Funds Committee in making decisions on expenditures for betterment of the Cachuma Project.

See Table 2 below for a summary of balances held in restricted accounts.

Table 2			
Restricted Reserve Funds			
American Riviera Bank Renewal Account			
Previous Balance	2/28/2023	\$	41,122.30
(+) Deposits/Credits			-
(-) Checks/Withdrawals			-
Statement Balance	3/31/2023	\$	41,122.30
American Riviera Bank Warren Act Trust Fund			
Previous Balance	2/28/2023	\$	328,658.66
(+) Deposits/Credits			-
(-) Checks/Withdrawals			-
Statement Balance	3/31/2023	\$	328,658.66

**STATEMENT**

The above statement of investment activity for the month of March 2023, complies with legal requirements for investment policy of government agencies, AB 1073. I hereby certify that it constitutes a complete and accurate summary of all American Riviera Bank and LAIF investments of this agency for the period indicated.

  
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 Secretary

## Cachuma Operation &amp; Maintenance Board

**Paid Claims**  
As of March 31, 2023

Date	Num	Name	Memo	Amount
<b>1050 - General Fund</b>				
03/06/2023	29939	Association of Ca Water Agencies/JPIA	April 2023 Health Benefits Premium	-28,096.60
03/06/2023	29940	Big Brand Tire Company	2015 Chevy Silverado 1500 - Replace Tires	-1,146.44
03/06/2023	29941	Big Brand Tire Company	2019 Ford F150 - Replace Tires	-1,331.29
03/06/2023	29942	City of Santa-Barbara	Trash & Recycling February 2023	-322.23
03/06/2023	29943	Cori Hayman	Director Meeting Fees February 2023	-150.00
03/06/2023	29944	Cox Communications Santa Barbara	Business Internet March 2023	-195.44
03/06/2023	29945	Cushman Contracting Corp.	EPFP Pumping System - Pay Req 106	-3,500.00
03/06/2023	29946	Dal Pozzo Tire Corp.	Big Tex Trailer - Replace Tires	-645.55
03/06/2023	29947	ECHO Communications	Message Service March 2023	-87.00
03/06/2023	29948	Famcon Pipe & Supply	Materials (Ops)	-877.61
03/06/2023	29949	Frontier Communications	Phone Service - North Portal	-64.30
03/06/2023	29950	Frontier Communications	Phone Service - Main Office Land Lines	-100.26
03/06/2023	29951	Harrison Hardware	Supplies (Fisheries)	-504.41
03/06/2023	29952	Kristen Sneddon	Director Meeting Fees February 2023	-150.00
03/06/2023	29953	Lauren W. Hanson	Director Meeting Fees February 2023	-300.00
03/06/2023	29954	MarBorg Industries	Portable Facilities	-423.76
03/06/2023	29955	Milpas Rental	Equipment Rental (Ops)	-77.22
03/06/2023	29956	Paychex, Inc. (Payroll)	Payroll & Payroll Tax Services 2/17/23 & 3/3/23	-226.80
03/06/2023	29957	Polly Holcombe	Director Meeting Fees February 2023	-256.00
03/06/2023	29958	Reese Water & Land Surveying Services	Surveying Services	-12,700.00
03/06/2023	29959	Southern California Edison	Electricity - Main Office & Outlying Stations	-1,631.75
03/06/2023	29960	Specialty Tool, LTD	Equipment (Ops)	-207.68
03/06/2023	29961	Staples Business Credit	Office Supplies (Ops & Fisheries)	-185.60
03/06/2023	29962	Superior Machine, LLC	Flat Face Blind Flange Machining	-2,500.00
03/06/2023	29963	Underground Service Alert of So. Calif.	Ticket Charges & Database Fee	-172.75
03/06/2023	29964	WEX Fleet Universal	Fleet Fuel February 2023	-4,458.72
03/06/2023	29965	Zac Gonzalez Landscaping & Tree Care	Landscape Maintenance February 2023	-480.00
03/14/2023	29966	American Riviera Bank - Card Service	Website, Acrobat, Certificate, KPSI Level Transducer (Ops & Fisheries)	-3,325.86
03/14/2023	29967	AT&T	Long Distance Service 01/28/23-02/27/23	-38.83
03/14/2023	29968	Belzona California, Inc.	Conduit Materials (Ops)	-2,429.21
03/14/2023	29969	Coastal Copy, LP	Copier Maintenance - Kyocera Taskalffs 3253ci & 6054ci	-138.54
03/14/2023	29970	Cushman Contracting Corp.	EPF Secured Pipeline - Retention for Construction Services	-215,832.23
03/14/2023	29971	Famcon Pipe & Supply	Materials (Ops)	-5,181.94
03/14/2023	29972	HACH Company	Water Treatment Supplies (Ops)	-160.63
03/14/2023	29973	McMaster-Carr Supply Co.	Materials (Ops)	-189.38
03/14/2023	29974	Peter Lapidus Construction, Inc.	2023 Winter Storm Emergency Repairs - Backhoe Transport (Ops)	-577.20
03/14/2023	29975	Rayne of Santa Barbara Inc	March RO Rental	-33.00
03/14/2023	29976	Santa Barbara News Press	Publication of Hearing Ordinance No. 4	-122.50
03/14/2023	29977	SWRCB - DWOCP	Johnson, Kevin D3 Certificate Fee	-90.00
03/14/2023	29978	Tri-Co Reprographics	Secured Pipeline Project - As-Built Drawings	-47.60
03/14/2023	29979	Verizon Wireless	Cellular Service - Wireless Modems (Ops)	-266.17
03/20/2023	29980	Advanced Cable Systems	COMB Building Maintenance - Repair	-157.50
03/20/2023	29981	Aqua-Flo Supply	Supplies (Ops)	-151.56
03/20/2023	29982	Carpinteria Valley Lumber Company	Supplies (Ops)	-116.85
03/20/2023	29983	County of Santa-Barbara	Waste Disposal Fee (Ops)	-95.89
03/20/2023	29984	County of Santa Barbara Water Agency Dept	IRWM Share of Cost 7/1/22-12/31/22	-744.03
03/20/2023	29985	Department of Pesticide Regulation	QAC Certificate Renewal - Gooding, Jake T.	-30.00
03/20/2023	29986	Eurofins Eaton Analytical, LLC	Lake Cachuma Water Quality Sampling	-510.00
03/20/2023	29987	Farwest Corrosion Control Co.	Conduit Supplies	-228.45
03/20/2023	29988	Geosyntec Consultants	Lake Cachuma Water Quality & Sediment Study - Professional Services	-3,390.76
03/20/2023	29989	Impulse Advanced Communications	Phone Service - Main Office	-873.57
03/20/2023	29990	LoopUp, LLC	Conference Calls February 2023	-26.62
03/20/2023	29991	Musick, Peeler & Garrett LLP	General Counsel February 2023 (Ops & Fisheries)	-16,843.20
03/20/2023	29992	Northern Safety Co. Inc.	Materials (Ops)	-97.00
03/20/2023	29993	Otis Elevator Company	North Portal Elevator Maintenance 4/1/23-9/30/23	-3,228.48
03/20/2023	29994	SB Home Improvement Center	Supplies (Ops)	-114.33
03/20/2023	29995	Turenchalk Network Services, Inc.	Acer Aspire Laptop - Board Room	-672.36
03/20/2023	29996	Turenchalk Network Services, Inc.	Network Support February 2023 (Ops & Fisheries)	-2,514.08
03/20/2023	29997	Verizon Wireless	Operations Cell Phones & iPads	-380.15
03/27/2023	29998	All Around Landscape Supply	Supplies (Ops)	-77.73
03/27/2023	29999	American Riviera Bank - Card Service	Website, Acrobat, Owl Conference Cameras, Supplies (Ops & Fisheries)	-3,799.50
03/27/2023	30000	Bureau of Reclamation	USBR 2022-23 Water Rates 2nd Period Obligation 4/1/23-10/1/23	-1,337,112.82
03/27/2023	30001	Carpinteria Valley Lumber Company	Supplies (Ops)	-129.45
03/27/2023	30002	Commerce Truck Equipment Sales LLC	2023 Ford F750 270 HP Dump Truck	-117,138.31

**Cachuma Operation & Maintenance Board**

**Paid Claims  
As of March 31, 2023**

<b>Date</b>	<b>Num</b>	<b>Name</b>	<b>Memo</b>	<b>Amount</b>
03/27/2023	30003	Cushman Contracting Corp.	EPFP Pumping System - Pay Req 107	-3,500.00
03/27/2023	30004	Flowers & Associates, Inc.	2023 Winter Storm Emergency Repairs - Engineering Services	-1,983.00
03/27/2023	30005	Flowers & Associates, Inc.	EPF Secured Pipeline Project - Construction Management	-166.00
03/27/2023	30006	Northern Safety Co. Inc.	Personal Protective Equipment (Ops)	-536.37
03/27/2023	30007	PG&E	Electricity - North Portal	-341.41
03/27/2023	30008	Santa Maria Ford Lincoln	2023 Ford F150 Lightning	-97,393.73
03/27/2023	30009	Sparkletts	Operations Safety	-78.90
03/27/2023	30010	Spatial Wave	GIS & Mapping - Field Mapplet Software Maintenance April-June 2023 (Ops)	-925.00
03/27/2023	30011	Specialty Tool, LTD	Supplies (Ops)	-220.80
03/27/2023	30012	The Gas Company	Natural Gas - Main Office	-53.94
03/27/2023	30013	Wells Fargo Vendor Fin Serv	Copier Lease - Kyocera Taskalfa 3253ci	-123.98
03/27/2023	30014	Winema Industrial & Safety Supply	Equipment Repair - Ventis MX4 Gas Detectors	-496.30
03/29/2023	30015	Cori Hayman	Director Meeting Fees March 2023	-163.10
03/29/2023	30016	Farm Supply Company	2023 Winter Storm Emergency Repairs - Quiota Creek Repair Supplies (Fisheries)	-790.81
03/29/2023	30017	FP Mailing Solutions	Postage Meter Quarterly Rental (Ops & Fisheries)	-195.75
03/29/2023	30018	Frontier Communications	Phone Service - Main Office Land Lines	-100.26
03/29/2023	30019	Frontier Communications	Phone Service - North Portal	-64.30
03/29/2023	30020	Harrison Hardware	Supplies (Fisheries)	-4.30
03/29/2023	30021	Kathleen Werner	Director Meeting Fees March 2023	-156.55
03/29/2023	30022	Kristen Sneddon	Director Meeting Fees March 2023	-155.43
03/29/2023	30023	O'Reilly Automotive, Inc.	Automotive Supplies (Ops)	-163.26
03/29/2023	30024	Polly Holcombe	Director Meeting Fees March 2023	-146.53
03/29/2023	30025	Staples Business Credit	Office Supplies (Ops & Fisheries)	-292.74
Total 1050 - General Fund				<u>-1,885,709.60</u>
<b>TOTAL</b>				<b><u>-1,885,709.60</u></b>

**APPROVALS**

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# CACHUMA OPERATION & MAINTENANCE BOARD

## Operations Committee Meeting

*held at*

**3301 Laurel Canyon Road  
Santa Barbara CA 93105**

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**Friday, April 21, 2023**

**10:00 AM**

### AGENDA

*Chair: Director Sneddon*

*Member: Director Holcombe*

**NOTICE:** This Meeting shall be conducted in-person and through remote access as authorized and in accordance with Government Code section 54953, AB 361 and AB 2449.

1. Call to Order
2. Public Comment (*Public may address the Committee on any subject matter on the agenda and within the Committee's jurisdiction*)
3. Proposed 4<sup>th</sup> Amendment to the 2021-2025 Infrastructure Improvement Plan (IIP) (*for information and possible recommendation*)
4. Adjournment

#### NOTICE TO THE PUBLIC

**Public Comment:** The public is welcome to attend and observe the meeting. A public comment period will be included at the meeting where any member of the public may address the Committee on any subject within the Committee's jurisdiction. The total time for this item will be limited by the Chair.

**Americans with Disabilities Act:** In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact Cachuma Operation & Maintenance Board (COMB) at 687-4011 at least 48 hours prior to the meeting to enable staff to make reasonable arrangements.

[This Agenda was posted at COMB offices, 3301 Laurel Canyon Road, Santa Barbara, CA and Noticed and Delivered in Accordance with Section 54954.1 and .2 of the Government Code.]

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# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	April 24, 2023
Submitted by:	Edward Lyons
Approved by:	Janet Gingras

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**SUBJECT:** Financial Review – 3rd Quarter Fiscal Year 2022-23

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**RECOMMENDATION:**

The Board of Directors receive a presentation on the 3<sup>rd</sup> Quarter Fiscal Year (FY) 2022-23 Financial Review and file.

**DISCUSSION:**

The Board of Directors approves the Cachuma Operation and Maintenance Board (COMB) Budget each fiscal year. Unaudited financial statements are received and filed by the Board on a monthly basis. Staff provides, on a quarterly basis, a fiscal year-to-date financial review of the unaudited interim financial reports to the Board of Directors, comparing actual expenditures to the Budget.

For FY 2022-23, COMB adjusted the collection of quarterly assessments based on project implementation and projected cash outflows, as follows:

**Table 1**  
**COMB Quarterly Budget Assessments FY 2022-23**

Q1	Q2	Q3	Q4	Total
\$ 2,410,476	\$ 688,990	\$ 1,919,406	\$ 1,085,656	\$ 6,104,528
39%	11%	31%	18%	100%

**FISCAL ANALYSIS:**

**Revenues Collected**

- COMB assessed and collected \$1.9M in quarterly O&M Budget Assessments for the period January - March 2023.
- COMB assessed and collected \$1.3M in pass-through charges on behalf of the US Bureau of Reclamation for the 2<sup>nd</sup> period USBR Entitlement obligation for the period October 2022 through April 2023.
- COMB collected \$1.1M from the State of California Department of Water Resources as grant reimbursement under the Urban and Multi Benefit Drought Relief Grant program. Funds from this grant were applied to the Lake Cachuma Secured Pipeline project.
- COMB collected \$100K from the County of Santa Barbara for its annual contribution to the Cachuma Project Betterment Fund.

- COMB assessed and collected \$75.6K in pass-through charges from the Cachuma Project Member Units for State Water Resource Control Board fees.
- COMB assessed and collected \$15.6K in pass-through charges from three COMB Member Agencies for State of California Drinking Water Program permit fees.
- COMB collected \$15K from a non-member agency as reimbursement for 2000 BiOp and Oak Tree Mitigation activities performed during January - March 2023.
- COMB earned \$7.5K in interest income for funds held with LAIF.

### **Expenditures To Date (% of Budget Apportioned thru March – 75%)**

#### **General and Administrative (Combined)**

- General and Administrative Expenses include costs for support of all administrative functions of COMB such as: Director fees, legal expenditures, general liability and property insurance, audit fees, temporary/contract labor, utilities, IT and communications, postage and office supplies, training, education and subscriptions and miscellaneous expenses. Costs are generally allocated between Operations and Maintenance (65%) and Fisheries Division (35%). General and Administrative expenses thru March totaled \$258.5K (68.5%) and are within budget.
- General and Administrative Labor includes salaries, employer-paid payroll taxes, health insurance and retirement benefit costs for the COMB General Manager and Administrative staff. General and Administrative Labor expenses totaled \$579.6K (64.0%). Costs in this category are on trend and generally occur evenly throughout the year.

#### **Operations Division**

- Operation and Maintenance Labor includes salaries, employer-paid payroll taxes, health insurance and retirement benefit costs. Actual personnel costs of \$716.4K (65.7%) are within budget.
- Vehicles & Equipment includes funds for the purchase of fixed capital, equipment rental, vehicle and equipment maintenance, and fuel costs. Actual costs of \$152.9K (74.6%) are within budget. Notable expenses include the purchase of 2023 Ford F-750 dump truck in the amount of \$117.1K.
- Contract Labor contains funds for outside services and labor that cannot be supported by COMB staff such as water quality sampling, elevator maintenance or repair, tree trimming and removal services, heavy equipment and operators' labor costs for various small projects including meter calibration and meter repair. Actual costs of \$30.2K (23.3%) are within budget. Projects and staff assignments are reviewed closely by the COMB General Manager and Operations Division Manager to control costs in this category.
- Materials and Supplies covers costs related to the operation and maintenance of the conduit, reservoirs, and outlying buildings and roads. Actual costs of \$49.4K (58.1%) are under budget. Timing of expenditures in this category can vary based on project needs.
- Other Expenses includes utilities, uniforms, hazardous waste disposal, communications (phones at facilities, and cell phones for operations and maintenance), Underground Service Alerts, and employee training and certifications. Actual costs of \$43.9K (86.5%) are higher than the apportioned budget due to unanticipated permit fees assessed by the State of California Drinking Water Program.
- Special Projects includes costs related to water quality and sediment management, COMB building improvements and maintenance, SCADA improvements and support, right of way identification program and GIS and mapping. Actuals costs of \$69.9K (42.4%) are within budget. This amount includes unanticipated costs related to the 2023 Winter Storm repairs (\$18.8K). COMB is pursuing reimbursement for these costs with FEMA/CalOES.

- Infrastructure Improvement Projects - Board policy requires that all infrastructure improvement projects be approved through Committee and by the Board prior to commencement. Actual costs thru March totaled \$4.6M. This amount is attributed to the Lake Cachuma Secured Pipeline project (\$4.5M), South Coast Conduit Isolation Valve project (\$42.4K) and the Lauro Emergency AVAR Repair and San Roque Rehab project (\$34.3k). The timing and ranking of projects are dependent on factors such as: (1) water supply reliability, (2) risk, (3) critical need/life cycle of asset, (4) safety, and (5) service disruption necessary to accomplish project. To date, COMB has received grant reimbursements totaling \$1.9M from the California Department of Water Resources Urban and Multi-Benefit Drought Relief program and the U.S. Bureau of Reclamation WaterSmart Grant program for the Lake Cachuma Secured Pipeline project.
- **The total Operations Division expenses thru December of \$6.2M (73.1%) for FY 2022-23 are within budget.**
- **The projected annualized Operations Division expenses of \$6.9M (81.6%) for FY 2022-23 are within budget as reflected in Table 2:**

**Table 2**  
Operations Division

	Actual Jul-Sep	Actual Oct-Dec	Actual Jan-Mar	Projected Apr-Jun	Annual Projected	Annual Budget	Over / (Under) Budget (\$)	% of Budget
Revenue								
Revenue	\$ 2,788,999	\$ 2,203,856	\$ 1,876,420	\$ 728,001	\$ 7,597,276	\$ 8,501,331	\$ (904,055)	89.4%
Expense								
General and Admin Expenses	40,908	84,284	59,978	49,407	234,577	253,703	(19,126)	92.5%
General and Admin Labor	152,031	122,395	136,425	157,826	568,677	631,303	(62,626)	90.1%
O&M Labor	254,251	209,734	252,387	272,631	989,002	1,090,525	(101,523)	90.7%
O&M Vehicle & Equip	10,648	12,766	129,516	148,750	301,680	205,000	96,680	147.2%
O&M Contract Labor	4,290	13,255	12,683	32,500	62,728	130,000	(67,272)	48.3%
O&M Material and Supplies	6,383	15,889	27,085	21,250	70,608	85,000	(14,392)	83.1%
O&M Other Expenses	9,455	9,211	25,262	14,388	58,317	50,800	7,517	114.8%
Special Projects	13,305	13,191	43,398	31,250	101,143	165,000	(63,857)	77.3%
Infrastructure Improvement Proj	1,824,993	1,426,545	1,301,607	-	4,553,145	5,890,000	(1,336,855)	77.3%
Total Expense	\$ 2,316,264	\$ 1,907,270	\$ 1,988,341	\$ 728,001	\$ 6,939,877	\$ 8,501,331	\$ (1,561,454)	81.6%
Net Surplus / (Deficit)	\$ 472,735	\$ 296,586	\$ (111,921)	\$ -	\$ 657,399	\$ -	\$ 657,399	

Note: Results are unaudited and subject to change.

### **Fisheries Division**

- Fisheries Division Labor includes salaries, employer-paid payroll taxes, health insurance and retirement benefit costs for the Fisheries Division Manager, two Senior Field Biologists, a Biologist Aide position, and four part-time seasonal positions. Personnel costs of \$547.6K (69.7%) are within budget.
- Vehicles & Equipment includes funds for the purchase of fixed capital, equipment rental, vehicle and equipment maintenance, and fuel costs. Actual costs of \$116.6K (95.2%) are higher than budget. Notable expenses in this category include the purchase of 2023 Ford F150 Lightning electric fleet vehicle (\$97.4k).
- Contract Labor contains funds for outside services/labor to support equipment calibration on flow meters, and funds for technical assistance corresponding to the operation, maintenance and performance review of completed fish passage projects. Actual costs of \$4.9K (34.9%) are within budget. Consultant services are reviewed by the COMB General Manager and Fisheries Division Manager to control costs in this category.

- Materials and Supplies includes costs for the purchase of items needed for the Fisheries Monitoring Program specifically for migration, spawning and over-summering, constructing and repairing fish migration traps and the equipment necessary to conduct snorkel and redds surveys. Actual costs of \$4.1K (58.3%) are within budget.
- Other Expenses includes funds to pay for uniforms and gear for the fisheries division employees. Actual costs of \$0.8K (16.2%) are within budget.
- Fisheries Division Activities includes funding for special activities related to ongoing Cachuma Project Biological Opinion (BiOp) compliance efforts, the implementation of the Lower Santa Ynez River Fisheries Monitoring Program (FMP), GIS mapping, and the USGS Stream Gauge Program. The use of external consultants and the timing of expenditures can vary year-to-year based on specific program needs or as particular stream or habitat issues arise. Actual costs of \$65.3K (41.6%) are under budget.
- Fisheries Habitat Improvement – includes funds for the Oak Tree Restoration Program and Tributary Project Improvements. Actual costs of \$4.3K are under budget. The Fisheries Division is scheduled to commence oak tree planting during the fourth quarter.
- **The total Fisheries Division expenses thru December of \$985.5K (65.0%) for FY 2022-23 are within budget.**
- **The projected annualized Fisheries Division expenses of \$1.3M (88.5%) for FY 2022-23 are reflected in Table 3 below:**

**Table 3**  
Fisheries Division

	Actual Jul-Sep	Actual Oct-Dec	Actual Jan-Mar	Projected Apr-Jun	Annual Projected	Annual Budget	Over/(Under) Budget (\$)	% of Budget
Revenue								
Revenue	\$ 369,149	\$ 426,393	\$ 557,350	\$ 357,654	\$ 1,710,547	\$ 1,517,212	\$ 193,335	112.7%
Expense								
General and Admin Expenses	19,857	37,069	16,368	23,358	96,651	123,426	(26,775)	78.3%
General and Admin Labor	60,522	49,948	58,263	68,656	237,390	274,622	(37,232)	86.4%
Fisheries Labor	197,992	158,510	191,087	196,391	743,980	785,564	(41,584)	94.7%
Fisheries Vehicle & Equip	6,634	7,023	102,918	10,625	127,200	122,500	4,700	103.8%
Fisheries Contract Labor	-	-	4,921	2,000	6,921	14,100	(7,179)	49.1%
Fisheries Material and Supplies	1,704	964	1,411	1,750	5,830	7,000	(1,170)	83.3%
Fisheries Other Expenses	-	360	451	2,375	3,186	5,000	(1,814)	63.7%
Fisheries Activities	22,565	2,863	39,826	46,750	112,004	157,000	(44,996)	71.3%
Fisheries Habitat Enhancement	377	695	3,219	5,750	10,040	28,000	(17,960)	35.9%
Total Expense	\$ 309,652	\$ 257,432	\$ 418,464	\$ 357,654	\$ 1,343,202	\$ 1,517,212	\$ (174,010)	88.5%
Net Surplus / (Deficit)	\$ 59,497	\$ 168,961	\$ 138,887	\$ -	\$ 367,345	\$ -	\$ 367,345	

Note: Results are unaudited and subject to change.

### **Restricted Funds and Obligations**

- **Warren Act Trust Fund (Restricted Fund)** - The Warren Act Trust Fund is a requirement of the Cachuma Project Warren Act Contract negotiated between the Central Coast Water Authority (CCWA) and the Bureau of Reclamation for delivery and transport of State Water Project (SWP) water through the Cachuma Project facilities. A 1995 memorandum of understanding executed in conjunction with the Warren Act Contract established a charge of \$43 per acre-foot (AF). Payments are required upon delivery of SWP water to Cachuma Reservoir. CCWA makes quarterly payments to COMB based on the prior quarter's water deliveries to the lake.

COMB collected \$118K of Warren Act Trust Fund payments from CCWA for SWP deliveries that occurred in calendar year 2021. These funds were reviewed and approved at the annual Cachuma Project Warren Act Trust Fund and Renewal Fund meeting for use in FY 2022-23.

In calendar year 2022, COMB collected \$210,786 of Warren Act Trust Fund payments from CCWA. These funds will be reviewed at the next Cachuma Project Warren Act Trust Fund and Renewal Fund meeting for use in FY 2023-24.

- **Renewal Funds (Restricted Fund)** - The Renewal Fund is a requirement of the 1995 Renewal Master Contract (Contract No. 175r-1802R between the United States and Santa Barbara County Water Agency) entered into for water conveyance from the Cachuma Project to the five Cachuma Project Member Units. The Member Units are the Carpinteria Valley Water District, the Goleta Water District, the Montecito Water District, the City of Santa Barbara, and the Santa Ynez River Water Conservation District, Improvement District No. 1 (ID No. 1).

The Renewal Master Contract requires the payment of \$10 per acre-foot of water made available by the Cachuma Project. The Renewal Fund itself is capped at \$257,100, which is related to the current annual operational yield of 25,714 AF.

In accordance with the Cachuma Project Master Contract, Article 27 – Renewal Fund, Sub Article (e):

1. The aggregate amount to be deposited by the Cachuma Member Units in any Water Year shall not exceed the lesser of the amounts determined pursuant to sub articles 27 (e)(2), (e)(3), and (e)(4), as stated below.
2. The aggregate amount to be deposited by the Cachuma Project Member Units in any Water Year shall not exceed an amount equal to \$10 (May 1995 price levels using the Consumer Price Index) for each acre-foot of Project water scheduled for delivery that water year.
3. The aggregate amount to be deposited by the Cachuma Member Units in any Water Year shall not exceed an amount which bears a ratio to \$257,100, which is inverse to the ratio which the aggregate amount paid into the Cachuma Project Trust Fund during the immediately preceding Calendar Year bears to \$300,000.
4. If (i) at the beginning of any Water Year the combined balance of the Cachuma Project Trust Fund and the Renewal Fund is \$600,000 or more, or (ii) the Contracting Officer has determined that the maximum operation elevation of the Cachuma Reservoir shall be less than 750 feet, then no contributions to the Renewal Fund are required for such year Water Year.

On September 30, 2022, Michael Jackson, SCCAO Area Manager (U.S. Bureau of Reclamation) provided notice of the WY 2022-23 allocation for the Cachuma Project to be set at 0% of the maximum contract total based on current reservoir levels, existing carryover balances and forecast data.

As a result of the reduced allocation for WY 2022-23, the aggregate amount to be deposited into the Renewal Fund has been calculated based on Sub Article 27 (e)(2) of the Renewal Master Contract, as follows:

\$10 x Acre-Foot of Project Water Scheduled for Delivery, or

$$\text{\$10} \times (25,714 \text{ AF} \times 0\%) = \text{\$0}$$

In January 2023, Santa Barbara County experienced a series of four rain events that resulted in approximately 130,000 acre-feet of inflow and 2,700 acre-feet of rainfall on the lake. Inflow continued throughout February, supplemented by two smaller precipitation events in late January and early February, which resulted in an additional 6,400 acre-feet of inflow from the 1st to the 16th of February. These storms caused flow to occur in the Santa Ynez River, Santa Cruz Creek, and other tributaries, which raised Lake Cachuma by 60 feet until it reached its capacity of 753 feet on the 16th of February.

On February 26th, Reclamation notified the Santa Barbara County Water Agency and the Cachuma Project Member Agencies that their mid-year allocation request of 100% was approved. As a result

of the increased allocation, the aggregate amount to be collected from the Cachuma Project Member Units will be revised pursuant to Sub Article 27 (e)(3) of the Renewal Master Contract, as follows:

<b>Given:</b>	WATF = \$118,293
	AOY = Annual Operation Yield of 25,714 x \$10 = \$257,100
	RFC = Renewal Fund Calculation = $[1 - (WATF/\$300,000)] \times AOY$
<b>Then:</b>	RFC = $[1 - (\$118,293/\$300,000)] \times \$257,100$
	RFC = \$155,723

- **Bradbury/Lauro SOD Contracts** - Under the terms and conditions of a repayment contract executed in 2002, COMB is responsible for payment to the United States of fifteen percent (15%) of the total amount of Safety of Dams (SOD) Act funds expended by the United States for structural stability and related work at Bradbury Dam.

The fifteen percent obligation under the Bradbury SOD contract is \$7,605,739 and is to be repaid by annual payments over a 50-year period. COMB's payment obligation for FY 2022-23 is \$261,647. COMB assesses the Cachuma Project Member Units in accordance with their respective Cachuma Project entitlement percentages.

The fifteen percent obligation under the Lauro SOD contract is \$1,009,737 and is to be repaid by annual payments over a 50-year period. COMB's payment obligation for FY 2022-23 is \$47,404. COMB assesses the COMB Member Agencies (only) in accordance with each Member Agencies' pro-rata Cachuma Project entitlement percentages.

**LIST OF EXHIBITS:**

- 1) Fiscal Year 2022-23 Statement of Revenue and Expenditures
- 2) Quarterly Financial Review Presentation



**Cachuma Operation & Maintenance Board**  
**Statement of Revenues and Expenditures - Unaudited**  
**Budget vs. Actuals**

	Fisheries				Operations				TOTAL			
	Jul-Mar 23	Annual Budget	\$ Over / (Under) Budget	% of Budget	Jul-Mar 23	Annual Budget	\$ Over / (Under) Budget	% of Budget	Jul-Mar 23	Budget	\$ Over / (Under) Budget	% of Budget
	<b>Revenue</b>											
Revenue	\$ 1,352,892.36	\$ 1,517,212.00	\$ (164,319.64)	89.2%	\$ 6,869,274.92	\$ 8,501,331.00	\$ (1,632,056.08)	80.8%	\$ 8,222,167.28	\$ 10,018,543.00	\$ (1,796,375.72)	82.1%
<b>Total Revenue</b>	<b>1,352,892.36</b>	<b>1,517,212.00</b>	<b>(164,319.64)</b>	<b>89.2%</b>	<b>6,869,274.92</b>	<b>8,501,331.00</b>	<b>(1,632,056.08)</b>	<b>80.8%</b>	<b>8,222,167.28</b>	<b>10,018,543.00</b>	<b>(1,796,375.72)</b>	<b>82.1%</b>
<b>Expense</b>												
General and Admin Expenses	73,293.52	123,426.00	(50,132.48)	59.4%	185,170.04	253,703.00	(68,532.96)	73.0%	258,463.56	377,129.00	(118,665.44)	68.5%
General and Admin Labor	168,734.13	274,622.00	(105,887.87)	61.4%	410,851.55	631,303.00	(220,451.45)	65.1%	579,585.68	905,925.00	(326,339.32)	64.0%
O&M Labor	-	-	-	-	716,370.84	1,090,525.00	(374,154.16)	65.7%	716,370.84	1,090,525.00	(374,154.16)	65.7%
O&M Vehicle & Equip	-	-	-	-	152,930.08	205,000.00	(52,069.92)	74.6%	152,930.08	205,000.00	(52,069.92)	74.6%
O&M Contract Labor	-	-	-	-	30,228.29	130,000.00	(99,771.71)	23.3%	30,228.29	130,000.00	(99,771.71)	23.3%
O&M Material and Supplies	-	-	-	-	49,357.62	85,000.00	(35,642.38)	58.1%	49,357.62	85,000.00	(35,642.38)	58.1%
O&M Other Expenses	-	-	-	-	43,929.15	50,800.00	(6,870.85)	86.5%	43,929.15	50,800.00	(6,870.85)	86.5%
Special Projects	-	-	-	-	69,893.07	165,000.00	(95,106.93)	42.4%	69,893.07	165,000.00	(95,106.93)	42.4%
Infrastructure Improvement Projects	-	-	-	-	4,553,145.10	5,890,000.00	(1,336,854.90)	77.3%	4,553,145.10	5,890,000.00	(1,336,854.90)	77.3%
Fisheries Labor	547,589.56	785,564.00	(237,974.44)	69.7%	-	-	-	-	547,589.56	785,564.00	(237,974.44)	69.7%
Fisheries Vehicle & Equip	116,574.72	122,500.00	(5,925.28)	95.2%	-	-	-	-	116,574.72	122,500.00	(5,925.28)	95.2%
Fisheries Contract Labor	4,921.00	14,100.00	(9,179.00)	34.9%	-	-	-	-	4,921.00	14,100.00	(9,179.00)	34.9%
Fisheries Material and Supplies	4,079.99	7,000.00	(2,920.01)	58.3%	-	-	-	-	4,079.99	7,000.00	(2,920.01)	58.3%
Fisheries Other Expenses	810.76	5,000.00	(4,189.24)	16.2%	-	-	-	-	810.76	5,000.00	(4,189.24)	16.2%
Fisheries Activities	65,253.58	157,000.00	(91,746.42)	41.6%	-	-	-	-	65,253.58	157,000.00	(91,746.42)	41.6%
Fisheries Habitat Enhancement	4,290.48	28,000.00	(23,709.52)	15.3%	-	-	-	-	4,290.48	28,000.00	(23,709.52)	15.3%
Other Interest Expense - EPPF	-	-	-	0.0%	-	-	-	-	-	-	-	0.0%
<b>Total Expense</b>	<b>985,547.74</b>	<b>1,517,212.00</b>	<b>(531,664.26)</b>	<b>65.0%</b>	<b>6,211,875.74</b>	<b>8,501,331.00</b>	<b>(2,289,455.26)</b>	<b>73.1%</b>	<b>7,197,423.48</b>	<b>10,018,543.00</b>	<b>(2,821,119.52)</b>	<b>71.8%</b>
<b>Surplus / (Deficit) - O&amp;M</b>	<b>\$ 367,344.62</b>	<b>\$ -</b>	<b>\$ 367,344.62</b>		<b>\$ 657,399.18</b>	<b>\$ -</b>	<b>\$ 657,399.18</b>		<b>\$ 1,024,743.80</b>	<b>\$ -</b>	<b>\$ 1,024,743.80</b>	

Note: Results are unaudited and subject to change.

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# Cachuma Operation & Maintenance Board

Financial Review – 3rd Quarter  
Fiscal Year 2022-23



# Financial Review

## Revenues Collected – 3rd Quarter

<b>COMB O&amp;M Budget Assessment (January - March 2023)</b>	<b>\$ 1,919,416</b>
<b>USBR Entitlement Obligation (April - September 2023)</b>	<b>1,337,113</b>
<b>State of CA Department of Water Resources</b>	<b>1,140,123</b>
<b>County of Santa Barbara</b>	<b>100,000</b>
<b>SWRCB Pass Thru Assessment</b>	<b>75,609</b>
<b>2000 BiOp and Oak Tree Mitigation Reimbursement</b>	<b>15,000</b>
<b>Interest Income</b>	<b>7,472</b>
<b>Total Revenues Collected</b>	<b>\$ 4,594,734</b>

# Financial Review

	Operations Division			
	Jul - Mar (YTD)	Annual Budget	Over / (Under) Budget (\$)	% of Budget
<b>Revenue</b>				
Revenue	\$ 6,869,275	\$ 8,501,331	\$ (1,632,056)	80.8%
<b>Expense</b>				
General and Admin Expenses	185,170	253,703	(68,533)	73.0%
General and Admin Labor	410,852	631,303	(220,451)	65.1%
O&M Labor	716,371	1,090,525	(374,154)	65.7%
O&M Vehicle & Equip	152,930	205,000	(52,070)	74.6%
O&M Contract Labor	30,228	130,000	(99,772)	23.3%
O&M Material and Supplies	49,358	85,000	(35,642)	58.1%
O&M Other Expenses	43,929	50,800	(6,871)	86.5%
Special Projects	69,893	165,000	(95,107)	42.4%
Infrastructure Improvement Projects	4,553,145	5,890,000	(1,336,855)	77.3%
<b>Total Expense</b>	<b>\$ 6,211,876</b>	<b>\$ 8,501,331</b>	<b>\$ (2,289,455)</b>	<b>73.1%</b>
<b>Net Surplus / (Deficit)</b>	<b>\$ 657,399</b>	<b>\$ -</b>	<b>\$ 657,399</b>	<b>100.0%</b>

Note: Results are unaudited and subject to change.

# Financial Review

## Operations Division

	Actual Jul-Sep	Actual Oct-Dec	Actual Jan-Mar	Projected Apr-Jun	Annual Projected	Annual Budget	Over / (Under) Budget (\$)	% of Budget
<b>Revenue</b>								
Revenue	\$ 2,788,999	\$ 2,203,856	\$ 1,876,420	\$ 728,001	\$ 7,597,276	\$ 8,501,331	\$ (904,055)	89.4%
<b>Expense</b>								
General and Admin Expenses	40,908	84,284	59,978	49,407	234,577	253,703	(19,126)	92.5%
General and Admin Labor	152,031	122,395	136,425	157,826	568,677	631,303	(62,626)	90.1%
O&M Labor	254,251	209,734	252,387	272,631	989,002	1,090,525	(101,523)	90.7%
O&M Vehicle & Equip	10,648	12,766	129,516	148,750	301,680	205,000	96,680	147.2%
O&M Contract Labor	4,290	13,255	12,683	32,500	62,728	130,000	(67,272)	48.3%
O&M Material and Supplies	6,383	15,889	27,085	21,250	70,608	85,000	(14,392)	83.1%
O&M Other Expenses	9,455	9,211	25,262	14,388	58,317	50,800	7,517	114.8%
Special Projects	13,305	13,191	43,398	31,250	101,143	165,000	(63,857)	77.3%
Infrastructure Improvement Proj	1,824,993	1,426,545	1,301,607	-	4,553,145	5,890,000	(1,336,855)	77.3%
<b>Total Expense</b>	<b>\$ 2,316,264</b>	<b>\$ 1,907,270</b>	<b>\$ 1,988,341</b>	<b>\$ 728,001</b>	<b>\$ 6,939,877</b>	<b>\$ 8,501,331</b>	<b>\$ (1,561,454)</b>	<b>81.6%</b>
<b>Net Surplus / (Deficit)</b>	<b>\$ 472,735</b>	<b>\$ 296,586</b>	<b>\$ (111,921)</b>	<b>\$ -</b>	<b>\$ 657,399</b>	<b>\$ -</b>	<b>\$ 657,399</b>	

Note: Results are unaudited and subject to change.

# Financial Review

	Fisheries Division			
	Jul-Mar (YTD)	Annual Budget	Over / (Under) Budget (\$)	% of Budget
<b>Revenue</b>				
Revenue	\$ 1,352,892	\$ 1,517,212	\$ (164,320)	89.2%
<b>Expense</b>				
General and Admin Expenses	73,294	123,426	(50,132)	59.4%
General and Admin Labor	168,734	274,622	(105,888)	61.4%
Fisheries Labor	547,590	785,564	(237,974)	69.7%
Fisheries Vehicle & Equip	116,575	122,500	(5,925)	95.2%
Fisheries Contract Labor	4,921	14,100	(9,179)	34.9%
Fisheries Material and Supplies	4,080	7,000	(2,920)	58.3%
Fisheries Other Expenses	811	5,000	(4,189)	16.2%
Fisheries Activities	65,254	157,000	(91,746)	41.6%
Fisheries Habitat Enhancement	4,290	28,000	(23,710)	15.3%
<b>Total Expense</b>	<b>\$ 985,548</b>	<b>\$ 1,517,212</b>	<b>\$ (531,664)</b>	<b>65.0%</b>
<b>Net Surplus / (Deficit)</b>	<b>\$ 367,345</b>	<b>\$ -</b>	<b>\$ 367,345</b>	<b>100.0%</b>

Note: Results are unaudited and subject to change.

# Financial Review

## Fisheries Division

	Actual Jul-Sep	Actual Oct-Dec	Actual Jan-Mar	Projected Apr-Jun	Annual Projected	Annual Budget	Over/(Under) Budget (\$)	% of Budget
<b>Revenue</b>								
Revenue	\$ 369,149	\$ 426,393	\$ 557,350	\$ 357,654	\$ 1,710,547	\$ 1,517,212	\$ 193,335	112.7%
<b>Expense</b>								
General and Admin Expenses	19,857	37,069	16,368	23,358	96,651	123,426	(26,775)	78.3%
General and Admin Labor	60,522	49,948	58,263	68,656	237,390	274,622	(37,232)	86.4%
Fisheries Labor	197,992	158,510	191,087	196,391	743,980	785,564	(41,584)	94.7%
Fisheries Vehicle & Equip	6,634	7,023	102,918	10,625	127,200	122,500	4,700	103.8%
Fisheries Contract Labor	-	-	4,921	2,000	6,921	14,100	(7,179)	49.1%
Fisheries Material and Supplies	1,704	964	1,411	1,750	5,830	7,000	(1,170)	83.3%
Fisheries Other Expenses	-	360	451	2,375	3,186	5,000	(1,814)	63.7%
Fisheries Activities	22,565	2,863	39,826	46,750	112,004	157,000	(44,996)	71.3%
Fisheries Habitat Enhancement	377	695	3,219	5,750	10,040	28,000	(17,960)	35.9%
<b>Total Expense</b>	<b>\$ 309,652</b>	<b>\$ 257,432</b>	<b>\$ 418,464</b>	<b>\$ 357,654</b>	<b>\$ 1,343,202</b>	<b>\$ 1,517,212</b>	<b>\$ (174,010)</b>	<b>88.5%</b>
<b>Net Surplus / (Deficit)</b>	<b>\$ 59,497</b>	<b>\$ 168,961</b>	<b>\$ 138,887</b>	<b>\$ -</b>	<b>\$ 367,345</b>	<b>\$ -</b>	<b>\$ 367,345</b>	

Note: Results are unaudited and subject to change.



# Financial Review

## Upcoming Deliverables – Administrative Division

- Finalize O&M Budget for FY 2023-24
- Coordinate Grant Reimbursement for Secured Pipeline Project
- Pursue FEMA Reimbursement for January 9<sup>th</sup> Storm Event
- Prepare for Year End Close / Annual Audit Preliminary Fieldwork
- Advancement of ACWA JPIA Commitment to Excellence Program

# Financial Review

**QUESTIONS?**

# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	April 24,2023
Submitted by:	Elijah Papen
Approved by:	Janet Gingras

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**SUBJECT:** North American Lake Management Society (NALMS) – Conference Presentation

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**RECOMMENDATION:**

The Board of Directors receive the NALMS conference presentation on Tiered Approaches to Harmful Algal Bloom (HAB) Monitoring at Lake Cachuma as presented by Elijah Papen (COMB Senior Analyst) and Steve Skripnik (Technical Consultant) of Limnotech.

**SUMMARY:**

Lake Cachuma is an inland freshwater reservoir located on the Santa Ynez River in Santa Barbara County, CA, USA. The reservoir was formed by Bradbury Dam in the early 1950s and is the principal drinking water supply for over 200,000 people. Cachuma Operation and Maintenance Board (COMB) regularly samples and continuously monitors water quality at Lake Cachuma based on our sampling and monitoring plan, which was recently revised in coordination with Woodard & Curran and LimnoTech. Of primary concern is the temporal and spatial development of Harmful Algal Blooms (HABs). In coordination with our consultants, COMB has developed diverse and tiered approaches to monitoring and escalating bloom incident response. Phased actions have been shown to save money for local water agencies by improving overall efficiencies in the program.

Elijah Papen, along with our consultant Steve Skripnik from Limnotech, submitted an abstract to present (virtually) information on COMB's Tiered Approach to HAB Monitoring at Lake Cachuma, CA at the NALMS 13<sup>th</sup> National Monitoring Conference held in Virginia Beach, VA from April 24<sup>th</sup> to 28<sup>th</sup>. The purpose of the conference is to explore water-related monitoring topics and form partnerships among citizens, scientists, and professionals to foster the management and protection of lakes and reservoirs. One of the highlighted topics at this year's conference is remote monitoring of inland freshwater HABs. The material will be presented at this Board meeting.

**LIST OF EXHIBITS:**

N/A

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# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	April 24, 2023
Submitted by:	Elijah Papen
Approved by:	Janet Gingras

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**SUBJECT:**      **Water Quality and Sediment Management Study – Phase II Lake Cachuma Organic Carbon / Phosphorus Sampling and Source Investigation – Revised Approach and Contract Addendum**

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**RECOMMENDATION:**

The Board review the proposed revised approach and contract addendum for the Lake Cachuma Water Quality and Sediment Management Study – Phase II Organic Carbon / Phosphorus Sampling and Source Investigation (Investigation) and authorize the General Manager to execute a contract amendment in the amount of \$25,628 for the Professional Services Agreement (PSA) with Geosyntec Consultants.

**SUMMARY:**

In August 2020, the Lake Cachuma Water Quality and Sediment Management Study was completed. The report identified Total Organic Carbon (TOC) and algal blooms as priority issues. The consultant also recommended a suite of management actions (Phase II) designed to increase understanding of water quality challenges. Among the management actions listed were: 1) determine predominant source of TOC (i.e. vascular/terrestrial vs. nonvascular/algal), and 2) measure the mass of phosphorus (P) in sediments and rates of sediment P flux. Identifying the sources of TOC and P at Lake Cachuma will inform future management decisions. For example, watershed management will not be the most effective action for controlling TOC if the primary contributing source of organic carbon is attributed to in-lake algal growth.

The Board approved a PSA with Geosyntec Consultants (Geosyntec) on October 24, 2022 through adoption of Resolution No. 768, to perform and complete work for the Investigation in Fiscal Years 2022-23 and 2023-24. Winter storms occurring in early 2023 liberated material in the watershed above Lake Cachuma, and resulted in an unprecedented volume of sediment deposition within the reservoir. Comparing the 2021 Bathymetric Study (MNS Engineers Inc.) to the January 24-27, 2023 multi-beam echo-sounding (Reese Water and Land Surveying) revealed approximately five feet of new sedimentation at the deepest part of Lake Cachuma near Bradbury Dam. Additional precipitation in the watershed occurring in February and March, continued sediment transport, and natural settling/compaction of lake-bottom materials will have altered the topography since the echo-sounding survey.

In the original proposal received by Geosyntec, their technical approach included taking 10cm sediment core samples at five locations at Lake Cachuma to complete the Investigation, However, in recent discussions with Geosyntec, they have stated the newly deposited sediment will likely influence the outcome and applicability of the study. On March 15, 2023, COMB staff participated in a meeting with Geosyntec to review their draft work plan and discuss adaptive management options for revising the technical approach in light of unprecedented sediment deposition. On March 30, Geosyntec provided COMB with their proposed revised approach and detailed cost estimate for each item. Their revised approach includes the use of an elongated sediment core barrel to collect a top layer sample, and to collect a second underlying sediment sample from deeper strata. Radionuclide dating using Beryllium-7 would be

utilized in order to verify the date of older sediments. A large percentage of the increased cost is associated with doubling the laboratory analysis from 5 samples to 10 samples (5 locations). In addition, Hydrogen Sulfide (H<sub>2</sub>S) was detected at the release point for the downstream fishery in the summer and fall of 2022, associated with relatively high sulfur concentrations at the bottom of Lake Cachuma. For a nominal cost, sulfide sensors and additional sulfide sampling can be included for each core incubation. A summary of the proposed cost increases for the Investigation are presented in Table 1 below.

**Table 1. Increased Cost Summary**

Item	Description	Added Cost	Total Cost
Current Investigation	*Includes five 10cm sediment core samples	-	\$84,801
Add Sulfide Analysis	Includes sensors/samples for ten iterations	\$2,468	\$87,269
Collect Longer Cores	Longer barrel, separation of layers, shipping	\$1,656	\$88,925
Add Radionuclide Dating	Use of Beryllium-7 to date older sediments	\$5,931	\$94,856
Double Chemistry Samples	Five additional chemical analysis samples	\$9,586	\$104,442
Double Lab Incubations	Five additional lab core incubations	\$18,686	\$123,128
<b>Total</b>		<b>\$38,327</b>	<b>\$123,128</b>
<b>Board Approved Contract including Contingency</b>			<b>-\$97,500</b>
<b>Increase to Budget</b>			<b>\$25,628</b>

**BACKGROUND:**

Sources of Total Organic Carbon:

The plant and animal life around Lake Cachuma and in the Upper Santa Ynez Watershed are all potential sources of organic compounds to the lake. Plants can be divided into two significant groups on the basis of their biochemical compositions: (1) nonvascular plants that lack woody and cellulosic tissues, such as simple algae, and (2) vascular plants that have these tissues, such as grasses, shrubs, and trees. Organic matter in lake sediments covers the spectrum of being predominantly algal in some lakes to being land derived in others. In addition to these local sources of organic matter, winds commonly transport material, such as pollen, from sources outside the local watershed, typically representing a small fraction of organic matter contribution. Wildfires have the potential to mobilize large quantities of organic compounds which can end up in Lake Cachuma. There are a variety of field and laboratory techniques which have been developed and used elsewhere to identify relative contributions from each source.

Sources of Phosphorus:

External P from watershed and tributary sources are added to Lake Cachuma during inflow events throughout the winter. Internal P recycling also occurs at Lake Cachuma, but less is known about the magnitude of this source. In general, P used by algae, aquatic plants, fish, and zooplankton is stored within these organisms. As these organisms die and decompose, this P is returned to the lake water and sediment. Anoxia in the bottom layers of the lake make P more soluble, increasing release of P from falling particulate matter and lake sediments. During lake turnover events, the P that was released from decomposing matter and bottom sediments mixes throughout the lake and contributes to algal blooms. Phosphorus sampling and source investigation techniques are well developed and used widely to create nutrient budgets. In general, internal flux of P under various laboratory treatments (oxic and anoxic) is measured and the rate (and time) applied across the lake bottom area to estimate an annual magnitude. Internal estimates can be compared to measurements taken at tributary sources to evaluate relative contributions from each source.

Staff recommends the Board approve the revised approach in order to obtain representative sediment samples for both new storm sediment and older deposited material for analysis and interpretation. It is important to also include older sediments within the analysis, as they represent typical sedimentation processes within the lake, averaged over a longer time period.

**FINANCIAL IMPACT:**

The Warren Act Trust Fund/Renewal Fund accounts contain funding to support the \$25,628 contract addendum.

**LIST OF EXHIBITS:**

N/A

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Mission Statement:

*“To provide a reliable source of water to our member agencies in an efficient and cost effective manner for the betterment of life in our communities.”*

April 24, 2023

**General Manager Report**

The following summary provides the Board with information and an overview of progress on current COMB activities.

Administration

- **Fiscal Year 2023-24 Annual Operating Budget**

Staff has developed and submitted the Draft Fiscal Year 2023-24 Annual Operating Budget to Member Agency staff for review and comments. Once comments are received and incorporated, staff will be presenting the draft document to the Administrative Committee in late April with a Board Budget workshop scheduled for early May and anticipated Board approval at the regular COMB Board meeting in May.

- **Contracts Executed by the General Manager – 3<sup>rd</sup> Quarter Fiscal Year 2022-23**

Pursuant to the COMB Procurement Policy adopted by the Board, a quarterly report of all contracts executed by the General Manager for the period of January 1, 2023 through March 31, 2023 is presented for information.

Under the general procurement guidelines, Section 2 of the COMB Procurement Policy authorizes the General Manager to approve expenditures made for official Agency business up to a maximum of \$50,000, provided such expenditures are within the budget, as adopted by the Agency. Section 3(C) also provides that purchases of supplies, equipment, and non-professional services greater than \$10,000 and less than \$50,000, requires a minimum of two prices quotes be obtained and that the General Manager has authority to select and approve the vendor which meets the best interests of the Agency. Staff adheres to the Board adopted policy for the procurement of all goods and services.

Table 1 below lists all contracts executed by the General Manager for the period January 1, 2023 through March 31, 2023, sorted by execution date.

**Table 1**  
**Contracts Executed by General Manager**  
**January 1, 2023 - March 31, 2023**

Vendor Name	Contract Description	Date Board Approved	Date Executed	Date Expires	Contract Amount
Reese Water & Land Surveying Services	As-Built Survey of Secured Pipeline	N/A	01/13/2023	02/28/2023	\$11,400
Peter Lapidus Construction	Emergency Debris Removal - COMB Access Road	01/23/2023	01/13/2023	01/20/2023	\$12,750
Reese Water & Land Surveying Services	As-Built Survey of Secured Pipeline - Addendum No. 1	N/A	01/23/2023	01/31/2023	\$3,600
Cushman Contracting, Inc.	Emergency Intake Tower Debris Removal & Log Boom Repair	N/A	01/30/2023	01/31/2023	\$6,422
Flowers & Associates, Inc.	2023 Storm Damage Assessment	01/23/2023	03/01/2023	12/31/2023	\$25,000

U.S. Bureau of Reclamation

- **Spill/Surplus Status**

Reclamation has continued spillway releases through the holding gates at Bradbury Dam and the outlet works as the watershed has continued production of inflow to the Lake over the past month. On April 14<sup>th</sup>, the gates were incrementally closed with transition of releases exclusively to the outlet works. The challenge on recession flows is to target optimum lake storage while carefully managing the remaining inflow to avoid a re-initiation of spillway releases. As of April 19<sup>th</sup>, the lake is at full capacity and surplus water has remained available during this time.

## **COMB 2022-23 Accomplishments and Goals by Division**

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### **Administrative Division Activities / Accomplishments**

#### **Policies and Procedures**

- Developed COMB's Sustainability Plan. This will provide COMB the foundation for promoting and maintaining a sustainable service model within its sphere of responsibility that balances economic, environmental, and social principles as a fundamental component of achieving COMB's mission.
- Updated COMB's Personnel Policy and Employee Handbook for labor law updates and changes.
- Updated various internal operational safety procedures/protocols to maintain a safe and healthy working environment, free from hazards, for all employees including COMB's Injury and Illness Prevention Plan, Safe Operating Procedures Manual and Heat Illness Prevention Plan.

#### **Financial Audit / Budget Process**

- Awarded the Certificate of Achievement for Excellence in Financial Reporting from the Government Finance Officers Association (GFOA) for the Fiscal Year 2020-21 Annual Comprehensive Financial Report.
- Fiscal Year 2021-22 Audited Financial Statements received an unmodified ("clean") opinion.
- Awarded the Distinguished Budget Presentation Award from the GFOA for the FY 2022-23 COMB Operating Budget document.

#### **Risk Management**

- Completed the annual ACWA JPIA Worker's Compensation, Liability, and Property Risk Assessment. ACWA JPIA reviewed COMB's Employment Practices, Heat Illness Prevention Program, ACWA's Risk Control and Risk Transfer Manual, and COMB's Workers Compensation and Liability Program experience history.
- Received the President's Special Recognition Award from the Association of California Water Agencies. The JPIA recognizes its members that have a loss ratio of 20% or less in the Liability, Property and Worker's Compensation programs.

#### **IT Technology / Communications**

- Conducted the annual Information Technology (IT) review with COMB's outsourced IT consultant. The purpose of the meeting was to review COMB's server and network systems, identify updates to system requirements, assess current IT protocols, review data disaster recovery practices, as well as, identify potential new risks against cybersecurity threats.

### **Planning and Reporting**

- Participated in the Santa Barbara County Integrated Regional Water Management Program (IRWMP). The Cooperating Partners of IRWMP meet regularly to promote and practice integrated regional water management strategies; to ensure sustainable water uses, reliable water supplies and water quality, environmental stewardship, efficient urban development; and protection of agricultural and watershed awareness.
- Participated in the County of Santa Barbara Office of Emergency Management 2022 update to the Multi-Jurisdictional Hazard Mitigation Plan (MJHMP). COMB as a member of the Mitigation Advisory committee provided input on local hazard management activities and reviewed draft MJHMP components as part of a regional effort to update the MJHMP and annexes. The adoption of the Plan is targeted for spring of 2023.

### **Staff Development**

- Administrative Manager / CFO appointed to the Finance and Audit Committee of ACWA JPIA. The primary responsibility of the Committee is to put forward recommendations for approval to the Executive Committee with respect to audit, budget and investment policy.
- Staff member attended the 2022 CSDA Annual Conference. The conference included educational sessions on various topics including: Bond Market and Debt Financing, GASB Principles for Retirement Benefits, Contracting for Indemnification, Prevailing Wage Compliance, Cybersecurity Best Practices and the Legislative Update for 2022.
- Staff member attended the 2022 CSDA Board Secretary/Clerk Conference. The conference included educational sessions on various topics including: Business Writing for Board Secretaries, ADA Compliance and Transparency 101, Best Practices for Taking and Processing Board Minutes, and Understanding the California Public Records Act.
- COMB staff participated in required Sexual Harassment Prevention training sponsored by ACWA/JPIA in compliance with California AB 1825, AB 2053, and AB 1661.

### **Internal Goals**

- Update and improve internal policies and procedures
- Enhance ACFR audit/budget documents
- Advancement of ACWA JPIA Commitment to Excellence Program
- Leverage advances in technology
- Advancement of Board Policies and Internal Procedures
- Pursue and Coordinate Grant Reimbursement (FEMA, USBR, DWR, IRWMP)
- Staff professional development and training

### **Engineer - Operations Division Activities / Accomplishments**

COMB staff continues to focus its efforts on water supply reliability, infrastructure improvements, environmental stewardship, policies and financial responsibility, and improving workforce capabilities. Outlined below are highlights of accomplishments during the past fifteen months.

- Bid, awarded, and fully permitted the Secured Pipeline Project. In-lake Construction began in September and was completed in January just prior to largest single day lake rise in Cachuma Reservoir history on January 9, 2023. COMB staff performed approximately 50 percent of the construction observation activities. The project allows more resiliency in drought conditions and improved water quality under normal operations.
- Performed emergency shutdown and repairs of two blowoff nozzles in the Upper Reach of the South Coast Conduit (on Lauro Creek and San Roque Creek). Repair was required due to leak on coming from the blowoff vault.
- Replaced the elevation pressure transducers at Ortega Reservoir.
- In coordination with Carpinteria Valley Water District through a Cooperative Agreement – Laterals 1L, 1R, 2R, 3L, 4L, 5R, 6R, 17L, and 19R were rehabilitated. This involved replacing all the valves and air vacuum air release valves and removing the compound meters.
- Performed a shutdown of the South Coast Conduit from Toro Canyon to La Mirada Drive. Carpinteria Valley Water District installed a temporary lateral bypass system to keep customers in service.
- Replaced the valves and blind flanges at the Boundary Meter site during South Coast Conduit shutdown.
- Rehabilitated three air vents and two blowoff structures in the South Coast Conduit shutdown. This involved replacing all the access lids and installed all new valves and piping. The last two remaining SCC air valves that were subgrade were raised above grade, allowing COMB to closeout a Category 1 – USBR recommendation.
- Performed emergency debris removal following the winter storms in January 2023 at the North Portal, South Portal road, Glen Anne Turnout Road, Sheffield Road, and Sycamore canyon areas.
- Initiated a total organic carbon and phosphorous source study for Cachuma Reservoir and increased sampling of the lake and tributaries during the major inflow events which resulted in the complete filling of the lake and full exchange of the lake volume with new water.
- Continued to update and improve the Lake Cachuma Elevation Projection model.
- Incorporated water quality profiling at the Lake Cachuma North Portal Intake Tower and provided data to the South Coast water treatment plants' technical staff as part of a monthly sampling program.
- Upgraded the Supervisory Control and Data Acquisition (SCADA) main terminal as part of the COMB SCADA Master Plan.
- Received grant funding from the Department of Water Resources Urban and Multi Benefit Drought Relief Program for \$2,250,000. Funds from this opportunity was applied towards the Lake Cachuma Secured Pipeline Project.
- Received grant funding from the US Bureau of Reclamation Drought Resiliency Program for \$750,000. Funds from this opportunity was applied towards the Lake Cachuma Secured Pipeline Project.
- Executed a Cooperative Agreement with Carpinteria Valley Water District (CVWD) to repair and rehabilitate aging infrastructure in the lower reach section of the South Coast Conduit and the CVWD distribution system.

- Applied for and obtained a California Division of Drinking Water D3 Domestic Water Supply permit from the State Water Resources Control Board.
- Updated the COMB Infrastructure Improvement Plan for FY 2021-2025.
- Operated and maintained the South Coast Conduit, which consists of 26.5 mile of pipeline with a combined 124 blow off and air vent structures, 43 turnout structures, 20 meters and 4 regulating reservoirs.
- Participated in the Annual Site inspections with US Bureau of Reclamation Engineering staff.
- Received and reviewed 970 Underground Service Alerts (Dig Alerts) tickets and took appropriate action, as necessary.
- Monitored numerous construction projects adjacent to and within the United States Bureau of Reclamation right-of-way to ensure the protection of the South Coast Conduit.
- Drained and cleaned the Ortega Reservoir in coordination with the COMB Member Agencies technical staff.
- Removed vegetation at all structure sites to ensure defensible space as required by the Santa Barbara County Fire Marshal.
- Performed weekly inspections of major facilities.
- Performed routine dam inspections and instrumentation reports (all reservoirs).
- Performed North and South reach structure maintenance as part of the annual Operating Division work plan.
- Updated the Geographic Information Systems (GIS) mapping of the South Coast Conduit and incorporated elevations based on drawings to allow evaluation of depth of cover at key locations (slopes/creek crossings).
- Revised South Coast Conduit alignment based on potholing conducted within the easement of the South Coast Conduit. Potholed the conduit in seven locations and incorporated data into GIS system.
- Continued advancement of COMB's internal water accounting model to automate and improve monthly water accounting reports.
- Enhanced the Lake Cachuma elevation projection model for water supply and conveyance planning purposes.
- Participated in the County of Santa Barbara Office of Emergency Management 2022 update to the Multi-Jurisdictional Hazard Mitigation Plan (MJHMP). COMB as a member of the Mitigation Advisory committee provided input on local hazard management activities and reviewed draft MJHMP components as part of a regional effort to update the MJHMP and annexes. The Plan was adopted in the spring of 2023.
- One staff member completed course work for the Water Service Worker Distribution Operator II (D2) certification program and passed the D2 certification exam.
- Three staff members completed course work for the Water Service Worker Distribution Operator III (D3) certification program and passed the D3 certification exam. COMB now has five (5) D3 certified operators and one (1) D2 certified operator on staff.
- Gave a presentation at the ESRI International Users Conference titled "3D Analysis of Water Utility Pipeline and Land Elevation Changes." The presentation covered the work COMB staff has completed this year in modeling the South Coast Conduit and overlying land conditions in 3D. Pipeline visualization allows staff to quickly assess depth to top of pipe, especially at creek crossings, and track changes over time using available lidar (light detection and ranging), survey data, and geoprocessing tools within ArcGIS Pro.
- Conducted safety-training meetings.

### **Internal Goals**

- Continue structure rehabilitation on the lower reach of the South Coast Conduit
  - Make improvements to the South Coast Conduit in collaboration with CVWD to allow for improved future maintenance of the South Coast Conduit in that area
  - Implement Phase 2 actions for the Lake Cachuma Water Quality and Sediment Management Study related to phosphorous and total organic carbon sources
  - Make necessary improvements to complete Reclamation recommendations from 2022 Comprehensive Facility Review and past reviews
  - Complete repairs and debris removal related to the January 2023 storms and improve facility with mitigation projects to the extent funding is available through FEMA
  - Continue to organize and digitize historical records with focus on historical photos of the construction of the South Coast Conduit
  - Perform a comprehensive update of the GIS information in COMB's field mapplet system with 2022 aerial photo and updated GIS information. Locate and digitize lateral piping off of the South Coast Conduit
  - Continue to improve system records for maintenance and right-of-way program
  - Continue to encourage staff development and certification as water system distribution operators, qualified applicators, and appropriate safety training
  - Continue to seek grant funding for upcoming projects, especially for projects listed within the Infrastructure Improvement Plan's five year planning horizon
- 

### **Fisheries Division Activities / Accomplishments**

- Conducted all 2000 BiOp compliance monitoring in the Lower Santa Ynez River (LYSR) basin and its tributaries including Lake Cachuma water quality monitoring pursuant to associated guidance documents.
- Conducted all monitoring, analyses and reporting as requested by U.S. Bureau of Reclamation (Reclamation) in compliance with the State Water Board Order WR 2019-0148.
- Completed the Water Year (WY) 2021 Annual Monitoring Report (AMR) and Annual Monitoring Summary (AMS).
- Transferred all field monitoring data files to Reclamation via the established data portal for WY2021 and files from previous years if there were modifications after a QA/QC process with Reclamation.
- Worked closely with the Reclamation upon request on all required testing, modifications or operations of Bradbury Dam, the Hilton Creek Watering System and the Hilton Creek Emergency Backup System to safeguard the fishery downstream of the dam and assist Reclamation operations staff.
- Continued to work closely and collaboratively with California Department of Fish and Wildlife on fish rescue in the LSYR mainstem and its tributaries as needed and requested due to dry conditions or dam operations (only one occasion this FY).
- Authored the Reasonable and Prudent Measure (RPM) 6 Compliance Report for the WR 89-18 release that occurred in 2022.
- Wrote and submitted the 8/2/22 and 9/3/22 Incident Reports regarding the Hilton Creek fishery.
- Assisted CDFW in crafting the Fish Rescue and Relocation effort in Reach 5 of Hilton Creek just before the loss of flow to the Upper Release Point.
- Wrote and will submit by the end of April the WY2023 Spill Ramp-Down Stranding Event Report.

- Completed fish scale mounting, photographing, reading and reporting for WY2021, WY2022, WY2017, WY2016 and WY2015 as part of the WY2021 and WY2022 AMSs.
- Worked with the COMB Operations Division on monitoring algae and nutrients in Lake Cachuma throughout the year, participated in the NOAA AVARIS remote sensing project and participated in the TOC/P Study of Lake Cachuma.
- Monitored and maintained all mitigation oak trees near Lake Cachuma as part of the surcharge operation at the Dam. COMB has planted approximately 5,734 oak trees under this program since its inception in 2005.
- Completed the 2021 Annual Oak Tree Survey and reported the status of the Lake Cachuma Oak Tree Restoration Program with FY22 financials to the Oak Tree Committee and COMB Board.
- Maintained a rigorous watering effort of the mitigation trees in the Lake Cachuma Oak Tree Restoration Program throughout a very dry season that has shown positive results in sustaining those trees in multiple areas around the lake and below the dam.
- Obtained current aerial imagery for the Santa Ynez River valley.
- Participated in fish sampling on upper Piru Creek in collaboration with United Water, CDFW and NMFS.
- Submitted a NMFS-NOAA 10(a)1(A) permit application for Federal environmental coverage for all FD monitoring tasks.
- Submitted a CDFW 2081(A) MOU application and will submit shortly a CDFW Scientific Collection Permit for CESA State take coverage for our monitoring program including the use of electrofishers and PIT tagging.
- Presenting a poster at the SRF annual fisheries conference on Sulfur and Salmonids.
- Will complete soon the Water Year (WY) 2022 Annual Monitoring Report (AMR) and Annual Monitoring Summary (AMS).
- Prepared and submitted all required documentation for a FEMA grant for all applicable damages to fish passage enhancement projects due to high winter stormflow events.

### **Internal Goals**

- Obtain State and Federal environmental coverage for all monitoring tasks specifically migrant trapping, PIT tagging, fish rescue and relocation, secondary basin monitoring and calibration monitoring.
- Continue to conduct all Federal (BiOp) and State (WRO) required monitoring, analyses and reporting.
- Operate a PIT tag monitoring station during the migration season.
- Continue to assist Reclamation on all requested tasks.
- Continue maintaining and monitoring all trees in the Lake Cachuma Oak Tree Restoration Program
- Complete the WY2023 AMS.
- Work with COMB Admin and Opts to construct a solar panel generating system on campus.

Respectfully Submitted,

*Janet Gingras*  
General Manager

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# CACHUMA OPERATION AND MAINTENANCE BOARD

## MEMORANDUM

**DATE:** April 24, 2023  
**TO:** Janet Gingras, General Manager  
**FROM:** Joel Degner, Engineer/Operations Division Manager  
**RE: MONTHLY ENGINEERING REPORT**

The following summary provides the Board with information and an overview of progress by engineering staff related to on-going studies and infrastructure improvement projects.

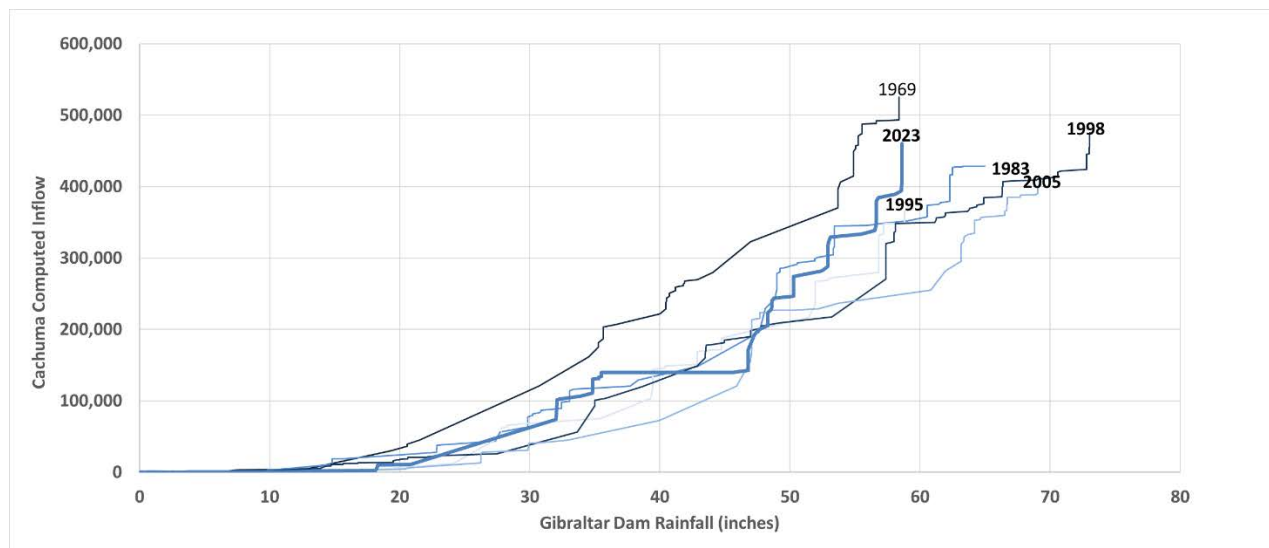
### CLIMATE CONDITIONS

The month of April has been dry after a wetter than normal December through March. Water Year 2023 has had 460,410 acre-feet of computed inflow as of April 19, 2023. Cachuma Reservoir has filled and an additional one and a half volumes of the lake has been released downstream. Water Year 2023 is the third highest inflow year since Bradbury Dam was constructed (Table 1, Figure 1). Reclamation closed the spillway gates on April 13<sup>th</sup>, 2023 and transitioned to outlet works releases but continues to release higher than required flows downstream due to the continued inflow into the lake. Reclamation declared a surplus of water on February 26<sup>th</sup> and will likely continue the surplus until the flows are reduced to the required releases.

**Table 1.** Highest Water Year Inflows since Bradbury Dam was constructed

Rank	Water Year	Computed Inflow (acre-feet)	Gibraltar Dam Rainfall (inches)
1	1969	525,364	58.37
2	1998	475,177	73.12
3	<b>2023</b>	<b>460,410*</b>	<b>59.52</b>
4	1983	428,471	64.99
5	2005	401,756	69.11
6	1995	365,096	58.92

\*As of April 19, 2023

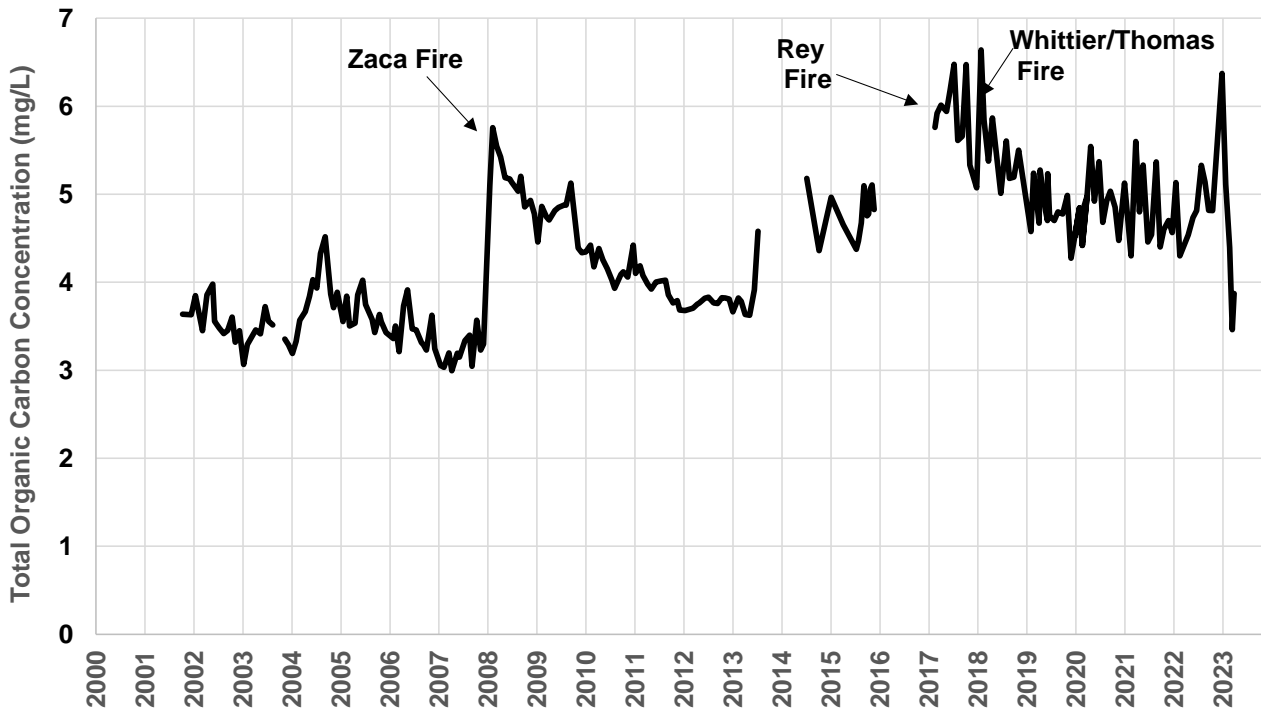


**Figure 1.** Cachuma Computed Inflow compared to Gibraltar Dam Rainfall

Water Year 2023 rainfall to date for Santa Barbara County is 205% of normal. The U.S. Drought Monitor reclassified Santa Barbara County as having no drought conditions in March 2023 and most of the state of California has been identified with no drought conditions. The Climate Prediction Center predicts ENSO-neutral conditions through the Northern Hemisphere spring, followed by a 62% chance of El Niño developing during May-July 2023.

**WATER QUALITY**

COMB continues to sample water quality at the reservoir. The average total organic carbon (TOC) concentration spiked following the inflow event on January 9, 2023 to over 6 mg/L. The high amount of flow and subsequent sedimentation may have mobilized past wildfire deposits as well as submerged and transported a significant amount of vegetation in the reservoir. However, the storms and recession inflow following January 9th have had much lower TOC. Approximately 1.5 lake volumes have been released this year following the initial inflow event. This has resulted in a dramatic lowering of TOC concentrations back to under 4 mg/L in March and April 2023. The average concentration of under 4 mg/L has not occurred since the previous spill in 2011. Prior to the Zaca Fire, the TOC concentrations at the lake were consistently under 4 mg/L.



**Figure 1.** Historical Average Total Organic Carbon Concentration at Lake Cachuma

**JANUARY STORM DISASTER RECOVERY**

A winter storm system occurring on January 9th and 10th caused widespread flooding, erosion, landslides, and damage across Santa Barbara County. This included access roads, facilities, and infrastructure operated and maintained by COMB. Damage occurred in various locations including a washout of the Lauro Reservoir access road, mudslides and debris impacting the Glen Anne access, large boulders and debris along the Sheffield Control Station access road, displacement and burial of several South Coast Conduit appurtenant structures, failure of the rock slope protection at Sycamore Canyon, and several other minor damages which were observed and documented. COMB has removed debris in several areas – North Portal, Glen Anne, South Portal, Sycamore Canyon, and Sheffield access road. COMB had its scoping meeting with FEMA on March 8<sup>th</sup> and FEMA performed site inspections on April 18<sup>th</sup> and 19<sup>th</sup> on areas that had not been remediated yet. Inspections were mainly focused on Lauro Reservoir debris basin and road damage and Toro Canyon blowoff damage.

**ORTEGA RESERVOIR CLEANING AND REPAIR**

Ortega Reservoir was isolated on March 31<sup>st</sup> and dewatered. COMB with the assistance of MWD staff cleaned the reservoir from April 3 to April 7<sup>th</sup>. The reservoir was cleaned with firehoses and large floor squeegees and required the rental of a pump system and weir tank from Rain for Rent. After the cleaning was complete, Howard Ridley Company began repair work on leaking concrete joints. The repair work to the joints is being conducted

under a contract with Montecito Water District and Carpinteria Valley Water District. Ortega Reservoir will likely be offline for approximately six weeks (until mid-May). The long time offline will allow better installation and curing of the joint repair. The leaks were located in a dive inspection and also inspections following the draining of the reservoir. The reservoir has not been emptied and cleaned since 2014 due both the severe drought as well as infrastructure improvements that were needed to allow the reservoir to be offline for an extended period. With the reservoir offline, water from Cater Treatment is currently bypassing Ortega Reservoir to go directly to Carpinteria Reservoir.

### **SOUTH COAST CONDUIT REHABILITATION**

The subgrade air vents were all raised above grade in early April 2023. COMB reported to Reclamation in April 2023 on completion of Recommendation 2012-1-A which is a Category 1 recommendation. In addition, Lateral 6L which has been offline for several years prior to the South Coast Conduit shutdown in March 2023 due to a leak. During the shutdown it was rehabilitated and increased in size from 4” to 6” during the shutdown. CVWD has now placed lateral 6-L back in service which will improve the flow capacity of their distribution system.

### **INFRASTRUCTURE IMPROVEMENT PROJECTS**

Table 2 provides the status of Fiscal Year 2022-23 infrastructure improvement and special projects.

**Table 2. Fiscal Year 2022-2023 Infrastructure Improvement Projects**

Infrastructure Improvement Projects	Status / Phase	Complexity / Challenges	Estimated Completion Date
<b>Infrastructure Improvement Projects</b>			
SCC Line Valves for Shutdown	Contractor has been engaged to perform design on Lillingston Line valve and provided preliminary design exhibit for its proposed location to COMB. Potholing will be required to locate the joints on the SCC to finalize the design and locate other utilities.	Additional line valve(s) are needed in Carpinteria to facilitate shutdown work. A Cooperative Agreement between CVWD and COMB has been approved by COMB and CVWD to facilitate the work.	Postponed to Fall 2023
SCC Structure Rehabilitation : Lower Reach Laterals	CVWD contractor successfully completed rehabilitated Laterals 1R,1L, 2R, 3L,4L in August and Laterals 17L and 19R in December and Laterals 5R and 6R in March which completes Phase 1 of the Cooperative Agreement.	In order to facilitate shutdowns on the Lower Reach of the SCC, lateral valves need replacement. COMB is collaborating with CVWD on this project.	CVWD construction on Phase 1 was completed in March 2023. Phase 2 may be initiated in FY 2023-24.
SCC Structure Rehabilitation : AVAR/BO Valves	A shutdown from Toro Canyon Isolation Valve to La Mirada isolation valve was conducted in March 2023. This rehabilitation work allowed completion the USBR Category 1 recommendation regarding the SCC AVAR. The shutdown was the most complicated yet requiring CVWD to temporarily install an extensive bypass system, involved two contractors, and numerous land closures on Highway 192.	The remaining structures to be rehabilitated are the most difficult access-wise (with several in Highway 192) and with difficult shutdowns to schedule in the Carpinteria area.	Shutdown and construction was completed in March 2023.
<b>Special Projects</b>			
Emergency Pumping Facility - Secured Pipeline Project	The contractor completed installation of the Secured Pipeline Project and has demobilized from the lake. Sonar of the installation confirmed its correct alignment and placement on the lake bottom, and a flow test of the screened gravity intake and system confirmed proper functioning of the components and system.	Storms and unprecedented inflow into the lake in early January 2023 necessitated accelerated installation by the contractor and staff. The additional debris load into the reservoir buried the connection of the system at the Intake Tower and deposited some material onto the screened gravity intake. Sonar, flow testing, and underwater drone video confirmed proper functioning of all components.	Construction was completed in February 2023. COMB staff is working on issuing completion notifications and reports to appropriate grant and permitting agencies.
Lake Cachuma Water Quality and Sediment Management Study	COMB awarded the contract for the Phase 2 phosphorous/TOC source study in October 2022. A kickoff meeting was conducted in December and a work plan was provided in March with sampling tentatively schedule for May/early June 2023.	COMB staff has taken additional tributary samples through winter months to supplement the study. The rise in lake level complicates sediment sampling procedures at the deepest part of the lake. In addition, with the high amounts of inflow and sedimentation - the entire volume of the lake has been exchanged with new water and the bottom is likely covered with an extensive layer of new sediment.	A focused phosphorous and TOC sourcing study by COMB is planned for FY 2022/2023 and FY 2023/24. The Phase 2 phosphorus/TOC source study is scheduled for completion in December 2023 upon receiving the final report

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## CACHUMA OPERATION AND MAINTENANCE BOARD

**DATE:** April 24, 2023  
**TO:** Janet Gingras, General Manager  
**FROM:** Shane King, Operations Supervisor  
**RE:** **MONTHLY REPORT OF OPERATIONS – March 2023**

The total flow from Lake Cachuma into the Tecolote Tunnel for March was 1,307.32 acre-feet, for an average daily flow of 42.17 acre-feet. Lake elevation was 752.02 feet at the beginning of March and 751.48 feet at the end of March. Lake storage decreased by 1,972.43 acre-feet. There was no inflow from CCWA into Cachuma Project facilities this month. The City of Santa Barbara wheeled 190.34 acre-feet of water from the Gibraltar Penstock through Lauro Reservoir. The Hilton Creek Watering System was utilized and delivered 260.92 acre-feet of water to Hilton Creek for the month of March.

The Operations Division of the Cachuma Operation and Maintenance Board has the responsibility to operate, repair and maintain all Cachuma Project facilities from the Intake Tower at Lake Cachuma to the Carpinteria Reservoir. The Annual Work Plan sets forth all activities necessary to ensure system reliability. Consistent with the Plan, Operation and Maintenance staff performs routine maintenance on the distribution and storage system. Staff continues to improve the system, address deficiencies and identify items to be included in the Infrastructure Improvement Program of work. Operations Division is responsible for:

- Adequately regulating and maintaining the diversion of water from Lake Cachuma to the South Coast via the Tecolote Tunnel as the primary water source for 5 communities.
- Operation and maintenance of the South Coast Conduit pipeline, which consist of 26.5 miles of pipeline with a combined 124 blow off and air vent structures, 43 turnout structures and 20 meters.
- Operation and maintenance of four regulating reservoirs.

South Coast Conduit - Structure Inventory													
Reach	Endpoints	Linear Length (ft)	Pipe Diameter	Regulating Storage Reservoirs	Meters	Air Vents	Blow-Offs	Turnouts	Open Air Vents	Valves	Valve Size	Slide Gates	Capacity / Volume (gal)
<b>Upper</b>	Glen Annie Turnout (S. Portal) - Cater Water Treatment Plant	64,050	48"	2	5	32	35	18	2	115	4" - 48"	7	6,017,421
<b>Lower</b>	Cater Water Treatment Plant - Carpinteria Reservoir	90,910	27" - 36"	2	15	26	31	42	4	144	4" - 36"	-	3,190,171

Routine operation and maintenance completed during the month of March were as follows:

- Staff has been on site monitoring several ongoing projects throughout the area, working closely with the construction and engineering contractors to ensure that:
  - Pipeline easements and the right-of-way remain accessible to Operations staff for possible emergencies and ongoing facility maintenance.
  - All projects are following the COMB and USBR approved plans.
  - No damage occurs to the SCC during the construction process.

## Ongoing Monthly Operations Items:

- Conducted several flow changes at the North Portal during the month
- Reviewed several projects for conflicts within the SCC right of way
- Received and responded to 95 USA Dig alerts
- Performed weekly inspections of major facilities, safety meetings, rodent bait (all reservoirs), toe drain and piezometer reads at Ortega (L23)
- Performed dam inspection and instrumentation reports (all reservoirs)
- Performed equipment and yard maintenance
- Performed monthly North Portal elevator maintenance with Otis
- Performed monthly water quality sampling
- Read and document anodes and rectifier data

## In addition regular activities described above, Operations staff performed the following:

- COMB staff pulled and cleaned the fish screens on gates #2, 3, and 4 on the north portal intake tower. The slide gates on #2, 3, 4, and 5 were exercised and lubricated.
- Staff visited all of COMB's sites for pre and post storm checks. These sites include: The North Portal site, South Portal site, Glen Anne site and reservoir, Lauro reservoir and valve pits, Sheffield valve pits, Ortega reservoir and valve pits, and Carpinteria reservoir and valve pits.
- Cushman Contracting staff completed the piping and installation of the AVAR pads and enclosures for the AVAR/ Blow Off structure rehab project in the Carpinteria section of the SCC. These structures include: 643+92 AV, 664+35 BO, 676+67 AV, 679+80 BO, 682+11 AV, Lateral 5R, and Lateral 6R. (see photos)
- Staff drained and cleaned the Ortega reservoir in preparation of the floor joint sealing project. Cleaning the reservoirs within the COMB's facilities is also outlined in the Standard Operating Procedure (SOP) and must be conducted on a regular basis. Cleaning the Ortega reservoir includes:
  - 1) Setting up dewatering and debris settling tanks and piping
  - 2) valving the reservoir out of service while continuing to supply Carpinteria with a sufficient amount of water.
  - 3) Draining down the reservoir to empty
  - 4) Cleaning the reservoir using fire hoses, squeegees, and shovels. While hosing down the reservoir, pump are set up in the sump drains and cleaning water is pumped up into the settling tank. After the silt and debris has settled out and the water has been dechlorinated, the water is drained out of the tank into the reservoir road storm drain.
  - 5) After the reservoir has been washed, staff shovels all remaining debris into silt bags and removed from the reservoir.

The repair of the concrete reservoir floor joints is currently being conducted and is expected to be completed in mid-May. At this time, Montecito staff will disinfect the inside of the reservoir and COMB staff will then fill the Reservoir with water (approximately 3 feet). The reservoir will be sampled for bacteria. Once the samples come back negative, COMB will valve the reservoir back to normal operations.

- COMB staff assisted the fisheries division in the planting of ~50 new oak trees in the live oak camp ground near Cachuma Lake. (See Photos)
- Meter calibrations were conducted by Emerson Process Management. These meters include; Tecolote tunnel inflow meter, Lauro reservoir inflow meter, Sheffield south flow meter, and Ortega reservoir outflow meter.

AVAR/BO Rehab Project





Ortega Reservoir Cleaning





Oak Tree Planting



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**CACHUMA OPERATION AND MAINTENANCE BOARD**  
**BOARD MEMORANDUM**

**DATE:** April 24, 2023  
**TO:** Janet Gingras, General Manager  
**FROM:** Tim Robinson, Fisheries Division Manager  
**RE: MONTHLY FISHERIES DIVISION REPORT**

**HIGHLIGHTS:**

- USBR delivered 2000 Biological Opinion (BiOp) target flows to Hilton Creek by gravity through the Hilton Creek Watering System (HCWS) to the Upper Release Point (URP) and to a smaller degree through the Lower Release Point (LRP), which has been sustaining the *O. mykiss* population in the creek since the last Board meeting.
- As of 2/15/23, Order WR 2019-048 Table 2 flows have been met (or exceeded) for a Wet year classification (specifically reservoir inflow > 117,842 af).
- Lake Cachuma continues to spill since the last Board meeting. The 2000 BiOp and Order WR 2019-0148 Table 2 target flows to the Hwy 154 Bridge / Alisal Bridge (10 cfs with a spill exceeding 20,000 af and 48 cfs [20 cfs as of 4/15/23], respectively) were met by USBR.
- Spill ramp down / stranding surveys have found some fish mortalities and some fish had to be rescued and relocated.
- On 4/11/23 and 4/12/23, Reclamation removed the damaged 30-inch valve of the Outlet Works and replace it with a blind flange. That valve is being reconditioned in Fresno and will be replaced once repaired.

In compliance with the 2000 Cachuma Project Biological Opinion (BiOp) (NMFS, 2000) and WR Order 2019-0148, and as described in the 2000 Lower Santa Ynez River Fish Management Plan (SYRTAC, 2000) and the Monitoring Program in the 2000 Revised Biological Assessment (BA), the COMB-FD staff conducts routine monitoring of the steelhead/rainbow trout population and their habitat on the Lower Santa Ynez River (LSYR) below Bradbury Dam. The following is a list of activities carried out by COMB-FD staff since the last COMB Board Fisheries Division Report and has been broken out by categories.

**LSYR Steelhead Monitoring Elements:**

**Lake Profiles:** Lake Cachuma water quality measurements (temperature, dissolved oxygen concentration, pH, and turbidity) at one meter intervals from the surface to the bottom of the lake (Lake Profile) are taken once a month at the Hilton Creek Watering System (HCWS) Intake Barge. This is considered to be near the deepest point in the lake and allows for monitoring of lake stratification, water quality conditions at the intake level for the HCWS, and lake-turnover. Due to the drought and the need to carefully monitor Lake Cachuma, lake profiles are being taken monthly throughout the year and are reported in the Annual Monitoring Summary/Report.

**Redd Surveys:** Redd surveys are conducted approximately every two weeks from mid-December through May (depending on streamflow conditions). Surveys are conducted within the LSYR mainstem in the Highway 154, Refugio, and Alisal reaches where access is permitted, and certain sections of Hilton, Quiota, and Salsipuedes/El Jaro creeks. The number of redds is reported in the Annual Monitoring Report/Summary.

**Migrant Trapping:** This monitoring task was suspended due to compliance with the California Endangered Species Act (CESA) from the recent listing of Southern California steelhead (*Oncorhynchus mykiss*, *O. mykiss*) until permits are obtained.

**Spill Ramp Down / Stranding Surveys:** As Reclamation reduces the spill rate starting from the peak release of 2/26/23, surveys have been conducted by COMB-FD staff to look for stranded fish as the river flows recede into the lower flow channels. Several mortalities of multiple species including *O. mykiss* have been found and several fish from multiple species were rescued and relocated as directed by CDFW. Spill ramp down is ongoing and the final numbers of mortalities and rescued/relocated fish will be provided to Reclamation in a report once the spill has been concluded.

**Monitoring Target Flows:** Monitoring for the required 2000 BiOp and WR 2019-0148 target flows are conducted by USGS and USBR for Hilton Creek, and COMB-FD, USBR and USGS for the LSYR at the Hwy 154 Bridge and Alisal Bridge.

The minimum target flow of 2 cfs to Hilton Creek was met throughout March with HCWS gravity flow to the URP and the LRP (between 4.5 and 6.1 cfs) and upper basin flows. USGS reported well over 8.5 cfs that includes sustaining upper basin flows.

Spill and target flow releases from Bradbury Dam have been keeping river flows at the Hwy 154 Bridge and the Alisal Bridge well above Table 2 compliance flows. The new USGS stream gage at the Hwy 154 Bridge is operating as designed and contracted. USBR is working with the State Board to modify Term 18 and Term 25 to move the target flow compliance point to the new USGS gage site.

**State and Federal Compliance Permitting:**

Staff is currently working with the resource agencies to obtain both State (CESA) and Federal (NMFS) permits specifically for take of the endangered Southern California steelhead in association with all required monitoring tasks. This effort was triggered due to the recent State listing of steelhead. A Federal 10(a)1(A) permit and a State 2081(a) MOU and a Scientific Collection Permit applications have been submitted for such take coverage. We hope to secure these permits by the end of the spring.

**Tributary Project Updates:**

After a site visit last month, HDR engineers are working on technical memos and cost estimates for each damaged tributary fish passage enhancement project. The needed documentation will assist in seeking FEMA and NRCS (Natural Resources Conservation Service) funding for the required repairs to return each project back to the As-Built condition. Most fixes are small and all sites are stable but if left as is, they could worsen with further significant stormflow events. The objective is to fix all during the late summer or early fall this year pending funding and permits.

## **Hilton Creek Watering System (HCWS) and Emergency Backup System (HCEBS) Operation and Repairs:**

**HCWS and HCEBS:** The HCWS and HCEBS are owned, operated, and maintained by USBR. USBR technical staff continues to consider improvement options for the HCWS and HCEBS. The HCWS was initially constructed in 1999 then modified to its current configuration in 2004. Recent and of note changes or repairs to these two Hilton Creek delivery systems are as follows:

- The 1/9/23 storm damaged the HCWS pumping barge and all of the electrical systems on that barge went under water and now need to be replaced. The anchoring cables had to be cut by Reclamation to right that barge that is now holding position by the attached submerged delivery pipeline (both in and out). Lake water is currently flowing by gravity from the Intake Barge to Hilton Creek and will continue to do so for the unforeseen future given that the lake is full.
- The HCEBS floating pipeline across the Stilling Basin was disconnected on the north side by USBR on 2/7/23 just prior to exercising all four of the spillway gates on 2/8/23. During the 2/25/23 spill event, that floating pipeline moved to the south bank and is now out of harm's way from the current spill event. It has not been determined if the pipeline got damaged upon moving to its current location. USBR has no plans yet to assess damages or reconnect the pipeline.
- On 4/11/ 23 and 4/12/23, Reclamation closed the Slide Gate on the Bradbury Dam Penstock and successfully replaced the stuck 30-inch valve with a blind flange then reopened the Slide Gate. The Outlet Works can now release lake water to the LSYS through one 30-inch valve and one 10-inch valve. Once that damaged valve is reconditioned, it will be reinstalled and the other 30-inch valve will be removed and reconditioned. This operation has not been scheduled.
- No further actions or repairs have been scheduled.

## **Surcharge Water Accounting:**

The following table summarizes the amount of surcharge water (defined as the amount of storage added to the lake by installing the flashboards to the top of the four radial gates to take the maximum lake elevation from 750 ft to 753 ft) used to date from each of the three accounts (Fish Passage Supplementation, Adaptive Management, and Fish Rearing) plus Unallocated Project Water at the end of last month (Table 1). All numbers are from the USBR's Daily Operations Report. The start time for the use of the Surcharge Water Accounts and Project Yield is the day following the last day of full surcharge and the end of the last spill event (prior to this wet year, it was 5/27/11). With the magnitude of this year's ongoing spill, all Surcharge Water Accounts are once again full and are reflected in Table 1 using the 2021 bathymetric survey values.

**Table 1:** Summary of the surcharge water accounting and use of Project Yield as of 4/20/23, using the 2021 bathymetric survey data.

<b>Accounts*</b>	<b>Allocation</b>	<b>Amount Used**</b>	<b>Amount Remaining</b>
<b>Units:</b>	<b>(acre-feet)</b>	<b>(acre-feet)</b>	<b>(acre-feet)</b>
<b>Fish Passage Supplementation</b>			
<b>WY2021</b>	3,200	0	3,200
<b>Adaptive Management</b>	500	0	500
<b>Fish Rearing***</b>	5,527	0	5,527
<b>Unallocated Project Water</b>		0	
<b>Total:</b>	9,227	0	9,227
* Originally was 9,200 af, 8,942 af in 2008, 9,184 af in 2013, and <b>9,227 af</b> in 2021.			
** Values as of 3/31/23.			
*** This water is for meeting required target flows. This is not an official account and is what remains after subtracting the other two accounts.			

**Reporting / Outreach / Training:**

**Reporting:** Staff has been assisting USBR upon request in reviewing draft sections and conducting data analyses for their preparation of the new draft Biological Assessment and WR 2019-0148 required Plans.

Staff, as time permits, continues to work on the WY2022 Annual Monitoring Report and WY2022 Annual Monitoring Summary, specifically data entry and analyses.

**Outreach and Training:** Outreach continues with Lower Santa Ynez River landowners (specifically in the Quiota Creek and Salsipuedes Creek watersheds), interested parties within the Santa Ynez Valley, and the County on a variety of fisheries related issues.

**Consultant Activity Summary:**

**HDR Fisheries Design Center** (Mike Garello and Shaun Bevan) – HDR has been assisting in damage assessment at all fish passage enhancement projects.

**Kenneth A. Knight Consulting** (Ken Knight) – No work was performed during this period on the established SOW tasks.

# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	April 24, 2023
Submitted by:	Tim Robinson and Scott Volan
Approved by:	Janet Gingras

**SUBJECT: Progress Report on the Lake Cachuma Oak Tree Restoration Program**

**RECOMMENDATION:**

For Board information only.

**SUMMARY:**

This memorandum on the Lake Cachuma Oak Tree Restoration Program reflects maintenance completed since March 27, 2022 to the present (4/1/22 – 4/24/23, Table 1). Labor and expenses as well as water usage for the entire fiscal year (July 2022 - June 2023) are tracked separately and reported as necessary as recommended by the Lake Cachuma Oak Tree Committee. COMB staff continues to rely on the Fisheries Division (FD) seasonal employees whenever possible to conduct the majority of oak tree work in the field. The 2015 Lakeshore Inventory was completed and reviewed by the Lake Cachuma Oak Tree Committee on 2/25/16, which set the mitigation numbers for the Program. The 2021 Annual Report with the annual inventory and Fiscal Year 2021-22 financials was completed and reviewed by the Lake Cachuma Oak Tree Committee on 9/16/22 and provided to the COMB Board on 9/26/22 that recommended going forward with replacing 50 dead oak trees during the wet season of this water year. The COMB Board was in agreement with that directive.

**Table 1: Cachuma Oak Tree Program completed maintenance tasks since April, 2022.**

	Apr 2022 <sup>1</sup>	May 2022 <sup>1</sup>	June 2022 <sup>1</sup>	July 2022 <sup>1</sup>	August 2022	Sept 2022	Oct 2022	Nov 2022	Dec 2022 <sup>1</sup>	Jan 2023 <sup>1</sup>	Feb 2023 <sup>1</sup>	March 2023 <sup>1</sup>	April 2023 <sup>1</sup>
<b>Year 13 Oaks</b>	Irrigated		Irrigated	Irrigated	Irrigated	Irrigated	Irrigated				Assess		Replanting
<b>(2021-2022)</b>	Weeded		Weeded	Weeded	Weeded	Weeded	Weeded				Clean-up		Gopher Baskets
													Fert/Comp
													Deer Cages
													Mulch/Irrigated
<b>Year 12 Oaks</b>		Irrigated	Irrigated	Irrigated	Irrigated	Irrigated	Irrigated	Irrigated	Irrigated				
<b>(2020-2021)</b>		Weeded	Weeded	Weeded	Weeded	Weeded	Weeded	Weeded	Weeded				
<b>Year 11 Oaks</b>	Irrigated	Irrigated		Irrigated					Irrigated				
<b>(2019-2020)</b>	Weeded	Weeded		Weeded					Weeded				
<b>Year 10 Oaks</b>													
<b>(2018-2019)</b>													
<b>Year 9 Oaks</b>													
<b>(2016-2017)</b>													
<b>Year 8 Oaks</b>												Infrastructure	
<b>(2015-2016)</b>												Repair	
<b>Year 7 Oaks</b>													
<b>(2014-2015)</b>													
<b>Year 6 Oaks</b>													
<b>(2005-2011)</b>													

<sup>1</sup> Oak tree inventory.



**Maintenance/Tree Planting**

In April, the COMB Fisheries and Operations staff began the process of replacing damaged or dead Year 13 oak trees at Live Oak Camp (Exhibit 1). The damage occurred during the January and February high flow event at the lower lot (the parking area) adjacent to the upper Santa Ynez River. Approximately 15 new trees and 23 replacement trees were planted. The remaining 12 trees will be used for replanting oak trees in Year classes 12 and 11, in that order, within the next week.

**Annual Inventory**

The 2022 Annual Inventory of all year classes (COMB planted trees 2005 through 2022 and Dam Tender trees) will be completed in the next couple of weeks. Staff has shortened the amount of data collected on each tree for the older and more mature trees, and methods have been discussed to make more efficient the inventory process.

**LIST OF EXHIBITS:**



**Exhibit 1:** Live Oak Camp Year 13 tree replacement and planting showing (a) the COMB backhoe preparing holes for planting, (b) planting of oak trees, (c) obtaining mulch at the County Park with the COMB dump truck, and (d) the finished new/replacement trees at the kiosk and start of the trail on the north side of the lake at Live Oak Camp.



**CACHUMA OPERATION AND MAINTENANCE BOARD**  
**METERED USE REPORT FOR MARCH 2023**

LATERAL/ STATION	NAME	ACRE FEET METERED	LATERAL/ STATION	NAME	ACRE FEET METERED
<b>CARPINTERIA WATER DISTRICT</b>			<b>GOLETA WATER DISTRICT</b>		
Boundary Meter - East		77.95	18+62	G. WEST	9.55
Boundary Meter - West		(0.19)	78+00	Corona Del Mar FILTER Plant	802.38
			122+20	STOW RANCH	0.00
				SWP CREDIT (Warren Act Contract)	0.00
				Raytheon (SWP) (Warren Act Contract)	0.00
				Morehart (SWP) (Warren Act Contract)	0.00
			<b>TOTAL</b>		<b>811.93</b>
			<b>MONTECITO WATER DISTRICT</b>		
			260+79	BARKER PASS	3.99
			386+65	MWD YARD	0.01
			487+07	VALLEY CLUB	0.00
			499+65	E. VALLEY-ROMERO PUMP	114.14
			510+95	MWD PUMP (SWD)	1.96
			510+95	ORTEGA CONTROL	3.06
			526+43	ASEGRA RD	0.00
			555+80	CO. YARD	0.00
			583+00	LAMBERT RD	0.13
			599+27	TORO CANYON	1.88
				SWP CREDIT (Warren Act Contract)	0.00
				City of SB / MWD WSA ("Desal")	(117.38)
			<b>TOTAL</b>		<b>7.79</b>
			<b>CITY OF SANTA BARBARA</b>		
			CATER	INFLOW	818.03
			Gibraltar	PENSTOCK	(190.34)
			CATER	SO. FLOW	(269.02)
			Sheffield	SHEF.LIFT	72.25
				SWP CREDIT (Warren Act Contract)	0.00
				La Cumbre (SWP) (Warren Act Contract)	0.00
				City of SB / MWD WSA ("Desal")	117.38
			<b>TOTAL</b>		<b>548.29</b>
			<b>SANTA YNEZ RIVER WATER CONSERVATION DISTRICT, ID#1</b>		
			COUNTY PARK, ETC		1.03
			<b>TOTAL</b>		<b>1.03</b>
			<b>BREAKDOWN OF DELIVERIES BY TYPE:</b>		
			STATE WATER DELIVERED TO LAKE		0.00
			STATE WATER TO SOUTH COAST including from stored		0.00
			<b>METERED DIVERSION</b>		<b>1,446.80</b>
<b>SWP CREDIT (Warren Act Contract)</b>		<b>0.00</b>			
<b>TOTAL</b>		<b>77.76</b>			
Note: Meter reads were taken on: 3/31/2023					

**WATER YEAR 22-23 CACHUMA PROJECT ALLOCATION**

**CACHUMA OPERATION AND MAINTENANCE BOARD  
WATER PRODUCTION AND WATER USE REPORT  
FOR THE MONTH OF MARCH 2023 AND THE WATER YEAR TO DATE (WYTD) <sup>(1)</sup>**

(All in rounded Acre Feet)

<b>CACHUMA PROJECT</b>		
<b>WATER PRODUCTION:</b>	<b>MONTH</b>	<b>WYTD</b>
Cachuma Lake (Tec. Diversion)	1,307.3	6,971.0
Tecolote Tunnel Infiltration	104.8	521.3
Cachuma Lake (County Park)	1.0	5.7
<b>Subtotal - Water Production</b>	<b>1,413.1</b>	<b>7,498.0</b>
<b>WATER DELIVERIES:</b>		
State Water Diversion	0.0	480.0
Cachuma Diversion	1,446.8	7,181.4
Storage gain/(loss) <sup>(2)</sup>	16.7	14.5
<b>Subtotal - Water Deliveries</b>	<b>1,463.5</b>	<b>7,675.9</b>
<b>Total Water Production</b>	<b>1,413.1</b>	<b>7,498.0</b>
<b>Total Water Deliveries</b>	<b>1,463.5</b>	<b>7,675.9</b>
<b>Difference = Apparent Water Loss</b>	<b>(50.4)</b>	<b>(177.9)</b>
% Apparent Water Loss	-3.56%	-2.37%

**SCC APPARENT WATER LOSS ALLOCATION (AWL) <sup>(3)</sup>**

	<b>GWD</b>	<b>SB CITY</b>	<b>MWD</b>	<b>CVWD</b>	<b>TOTAL</b>
<b>CURRENT MONTH CHARGE / (ADJUSTMENT)</b>					
M&I	0.0	0.0	0.0	0.0	0.0
Agriculture	0.0	0.0	0.0	0.0	0.0
Subtotal Cachuma Project	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
(+) State Water Project	0.0	0.0	0.0	0.0	0.0
<b>Total Current Month</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>WATER YEAR-TO-DATE CHARGE / (ADJUSTMENT)</b>					
M&I	0.0	0.0	0.0	0.0	0.0
Agriculture	0.0	0.0	0.0	0.0	0.0
Subtotal Cachuma Project	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
(+) State Water Project	0.0	0.0	0.0	0.0	0.0
<b>Total AWL Charged (WYTD)</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Total AWL Not Charged (WYTD)</b>					<b>(177.9)</b>
<b>Total AWL Incurred (WYTD)</b>					<b>(177.9)</b>

**CACHUMA PROJECT WATER CHARGE**

	<b>GWD</b>	<b>SB CITY</b>	<b>MWD</b>	<b>CVWD</b>	<b>SYRID #1</b>	<b>TOTAL</b>
<b>CURRENT MONTH</b>						
Water Usage						
M&I	747.6	548.3	7.6	52.3	1.0	1,356.8
Agricultural	64.3	0.0	0.2	25.5	N/A	90.0
<b>Subtotal Project Water Use</b>	<b>811.9</b>	<b>548.3</b>	<b>7.8</b>	<b>77.8</b>	<b>1.0</b>	<b>1,446.8</b>
(+) Apparent Water Loss	0.0	0.0	0.0	0.0	N/A	0.0
(+) Evaporative Loss <sup>(4)</sup>	0.0	0.0	0.0	0.0	0.0	0.0
<b>Total Project Water Charge</b>	<b>811.9</b>	<b>548.3</b>	<b>7.8</b>	<b>77.8</b>	<b>1.0</b>	<b>1,446.8</b>
<b>WATER YEAR-TO-DATE</b>						
Water Usage						
M&I	2,870.2	2,875.6	238.2	368.8	5.7	6,358.4
Agricultural	493.4	0.0	18.4	311.1	N/A	823.0
<b>Subtotal Project Water Use</b>	<b>3,363.7</b>	<b>2,875.6</b>	<b>256.6</b>	<b>679.9</b>	<b>5.7</b>	<b>7,181.4</b>
(+) Apparent Water Loss	0.0	0.0	0.0	0.0	N/A	0.0
(+) Evaporative Loss <sup>(4)</sup>	175.3	461.9	47.9	69.5	82.5	837.1
<b>Total Project Water Charge (*)</b>	<b>3,539.0</b>	<b>3,337.5</b>	<b>304.5</b>	<b>749.4</b>	<b>88.1</b>	<b>8,018.5</b>

(\*) Project Water Charge is applied first to Carryover Water balance and then to Current Year Water Allocation

**WATER YEAR 22-23 CACHUMA PROJECT ALLOCATION**

**CACHUMA OPERATION AND MAINTENANCE BOARD  
WATER PRODUCTION AND WATER USE REPORT  
FOR THE MONTH OF MARCH 2023 AND THE WATER YEAR TO DATE (WYTD) <sup>(1)</sup>**

(All in rounded Acre Feet)

**CACHUMA PROJECT WATER BALANCE**

	<b>GWD</b>	<b>SB CITY</b>	<b>MWD</b>	<b>CVWD</b>	<b>SYRID #1</b>	<b>TOTAL</b>
<b>Project Water Carryover - 10/1/2022</b>	7,890.4	19,239.8	2,067.3	3,035.0	3,353.8	35,586.3
<b>(-) Project Water Charge (WYTD)</b>	2,727.0	2,789.2	296.7	671.7	87.1	6,571.7
Carryover Available Before Adjustments	5,163.4	16,450.6	1,770.6	2,363.3	3,266.7	29,014.6
<b>Adjustments to Carryover (WYTD)</b>						
State Water Exchange <sup>(5)</sup>	0.0	0.0	0.0	0.0	(126.0)	(126.0)
Surplus <sup>(6)</sup>	69.5	63.0	3.9	16.2	0.9	153.5
Carryover Spilled <sup>(7)</sup>	(5,232.9)	(16,513.6)	(1,774.5)	(2,379.5)	(3,141.6)	(29,042.1)
<b>Balance Project Water Carryover</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Current Year Allocation <sup>(8)</sup></b>	9,322.0	8,277.0	2,651.0	2,813.0	2,651.0	25,714.0
<b>(-) Balance of Project Water Charge (WYTD)</b>	811.9	548.3	7.8	77.8	1.0	1,446.8
Allocation Available Before Adjustments	8,510.1	7,728.7	2,643.2	2,735.2	2,650.0	24,267.2
<b>Adjustments to Allocation (WYTD)</b>						
State Water Exchange <sup>(5)</sup>	46.0	30.0	30.0	20.0	0.0	126.0
Surplus <sup>(6)</sup>	811.9	548.3	7.8	77.8	1.0	1,446.8
Transfers/Adjustment - SB/La Cumbre	0.0	0.0	0.0	0.0	0.0	0.0
Transfers/Adjustment - Bishop Ranch	0.0	0.0	0.0	0.0	0.0	0.0
Transfers/Adjustment - Juncal Transfer	0.0	0.0	0.0	0.0	0.0	0.0
Transfers/Adjustment - GWD/SB Overlap	0.0	0.0	0.0	0.0	0.0	0.0
<b>Balance Current Year Allocation</b>	<b>9,368.0</b>	<b>8,307.0</b>	<b>2,681.0</b>	<b>2,833.0</b>	<b>2,651.0</b>	<b>25,840.0</b>
<b>Total Cachuma Project Water Available</b>	<b>9,368.0</b>	<b>8,307.0</b>	<b>2,681.0</b>	<b>2,833.0</b>	<b>2,651.0</b>	<b>25,840.0</b>

**ACCUMULATED DROUGHT WATER CREDIT (ADWC) BALANCE**

	<b>GWD</b>	<b>SB CITY</b>	<b>MWD</b>	<b>CVWD</b>	<b>SYRID #1</b>	<b>TOTAL</b>
<b>ADWC Balance - 10/1/2022 <sup>(9)</sup></b>	543.8	482.8	154.6	164.1	154.6	1,500.0
<b>(-) ADWC Water Charge (WYTD)</b>	0.0	0.0	0.0	0.0	0.0	0.0
<b>Adjustments to ADWC (WYTD)</b>						
ADWC Spilled <sup>(7)</sup>	(543.8)	(482.8)	(154.6)	(164.1)	(154.6)	(1,500.0)
<b>Balance ADWC</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>
<b>Total Cachuma Project + ADWC Available</b>	<b>9,368.0</b>	<b>8,307.0</b>	<b>2,681.0</b>	<b>2,833.0</b>	<b>2,651.0</b>	<b>25,840.0</b>

**Footnotes**

- (1) Water Year = October 1 through September 30; WYTD = Water Year to Date
- (2) Includes Lauro and Ortega Reservoirs only
- (3) Based on correspondence from Michael Jackson, dated 09/15/17, which revised the approach to the assessment for unaccounted for water loss based on lake conditions
- (4) Per USBR, evaporation is applied to Cachuma Carryover and SWP water through standard contract formula effective April 1, 2017
- (5) Per SWP Exchange Agrmt GWD received 0 AF; City of SB received 0 AF; MWD received 0 AF; and CVWD received 0 AF from ID#1 in March 2023
- (6) Per USBR, surplus water became available to Member Units beginning 2/26/23 and continued for the remainder of February and March
- (7) Spill releases from Bradbury Dam in February 2023 (69,977 AF) reduced SWP, Carryover, and ADWC accounts
- (8) Per USBR, 100% mid-year allocation to Member Units, effective 2/28/23
- (9) Correspondence from Michael Jackson to the Member Units (MU's) dated 9/14/2022 revised the Downstream Users Accounting Reports effective August 2022 as produced by Reclamation. A credit of 1,500 acre-feet of water from the Below Narrows Account was transferred to the MU's based on provisions of the September 17, 2002 Settlement Agreement.
- (10) Memo only - State Water Deliveries to Lake Cachuma for March 2023 was 0 AF
- (11) Memo only - MWD has received 1,021.60 AF under the City of SB / MWD WSA ("Desal") for this Contract Year (July 1 - June 30)

**CACHUMA OPERATION AND MAINTENANCE BOARD**  
**WATER STORAGE REPORT**

MONTH: **MARCH 2023**

**GLEN ANNIE RESERVOIR <sup>(1)</sup>**

Capacity at 385' elevation:	335	AF
Capacity at sill of intake at 334' elevation:	21	AF
Stage of Reservoir Elevation	<b>358.8</b>	Feet
Water in Storage	184.47	AF

**LAURO RESERVOIR**

Capacity at 549' elevation:	503	AF
Capacity at top of intake screen, 520' elevation:	106.05	AF
Stage of Reservoir Elevation	<b>546.7</b>	Feet
Water in Storage	458.44	AF

**ORTEGA RESERVOIR**

Capacity at 460' elevation:	65	AF
Capacity at outlet at elevation 440':	0	AF
Stage of Reservoir Elevation	<b>441.8</b>	Feet
Water in Storage	4.10	AF

**CARPINTERIA RESERVOIR**

Capacity at 384' elevation:	45	AF
Capacity at outlet elevation 362':	0	AF
Stage of Reservoir Elevation	<b>375.6</b>	Feet
Water in Storage	24.81	AF

**TOTAL STORAGE IN RESERVOIRS <sup>(1)</sup>**

Change in Storage	487.35	AF
	6.69	AF

**CACHUMA RESERVOIR <sup>(2)</sup>**

Capacity at 750' elevation: <sup>(3)</sup>	183,751	AF
Capacity at sill of tunnel 660' elevation:	23,642	AF

Stage of Reservoir Elevation	<b>751.48</b>	Feet
Water in Storage	<b>188,271</b>	AF
Surface Area	<b>3,075</b>	Acres
Evaporation	<b>548.6</b>	AF
Inflow	<b>199,943.3</b>	AF
Downstream Release WR8918	<b>0.0</b>	AF
Fish Release (Hilton Creek)	<b>260.9</b>	AF
Outlet	<b>4870.0</b>	AF
Spill/Seismic Release	<b>196,744</b>	AF
State Water Project Water	<b>0.0</b>	AF
Change in Storage	<b>-1,972</b>	AF
Tecolote Diversion	<b>1,307.3</b>	AF

**Rainfall:            Month: 7.17                            Year: 39.38                            inches**

(1) Glen Annie Reservoir is currently offline and excluded from Total Storage in Reservoirs amount.

(2) Lake Cachuma reservoir storage volume based on 2021 bathymetric survey (NGVD29)

(3) In 2004, flashboard installation raised Cachuma Reservoir max elevation to 753' (192,978 AF); surcharge

**COMB STATE WATER PROJECT ACCOUNTING - SOUTH COAST ONLY (Does not include SYRWCD, ID#1 or exchange water)**

Month	Total Delivered to Lake per CCWA	CVWD						MWD						CITY OF SB						GWD						LCMWC						RSYS			MLC						
		Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap (-)	Adj / Spill (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap (-)	Adj / Spill (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap (-)	Adj / Spill (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap (-)	Adj / Spill (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Evap (-)	Adj / Spill (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Stored in Lake					
<b>2022</b>																																									
Bal. Frwd						810						0						0						0						92			0			0					
January	427	0	0	0	2	0	808	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	377	377	0	0	0	0	40	12	0	0	120	0	0	0	10	10	0
February	367	0	99	0	4	0	704	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	332	332	0	0	0	0	25	7	1	0	138	0	0	0	10	10	0
March	368	0	297	0	6	0	401	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	338	338	0	0	0	0	20	66	1	0	90	0	0	0	10	10	0
April	453	0	290	0	5	0	107	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	308	308	0	0	0	0	35	23	1	0	101	0	0	0	10	10	0
May	634	127	232	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	352	352	0	0	0	0	45	92	2	0	52	0	0	0	10	10	0
June	1060	227	227	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	595	595	0	0	0	0	137	70	1	0	119	0	0	0	9	9	0
July	569	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	359	359	0	0	0	0	100	14	2	0	202	0	0	0	10	10	0
August	322	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	269	269	0	0	0	0	46	91	4	0	153	0	0	0	7	7	0
September	186	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	134	134	0	0	0	0	47	69	3	0	128	0	0	0	5	5	0
October	145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	92	92	0	0	0	0	44	59	2	0	112	0	0	0	9	9	0
November	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	25	1	0	86	0	0	0	0	0	0
December	223	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	210	210	0	0	0	0	0	3	0	0	83	0	0	0	13	13	0
<b>Total</b>	<b>4754</b>	<b>354</b>	<b>1145</b>	<b>0</b>	<b>19</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>392</b>	<b>392</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3366</b>	<b>3366</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>539</b>	<b>531</b>	<b>17</b>	<b>0</b>	<b>83</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>103</b>	<b>103</b>	<b>0</b>						

(\*) Adj / Notes:

LCMWC: La Cumbre Mutual Water Company; RSYS: Raytheon; MLC: Morehart Land Company

Month	Total Delivered to Lake per CCWA	CVWD						MWD						CITY OF SB						GWD						LCMWC						RSYS			MLC							
		Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap (-)	Adj / Spill (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap (-)	Adj / Spill (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap (-)	Adj / Spill (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Loss (-)	Evap (-)	Adj / Spill (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Evap (-)	Adj / Spill (*) (+/-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Stored in Lake	Delivered to Lake (+)	Delivered to SC (-)	Stored in Lake						
<b>2023</b>																																										
Bal. Frwd						0						0						0						0						83			0			0						
January	23	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	21	0	0	77	0	0	0	7	7	0	
February	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	(37)	0	0	0	0	0	0	0	0	0	0	0	0	0
March	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
April																																										
May																																										
June																																										
July																																										
August																																										
September																																										
October																																										
November																																										
December																																										
<b>Total</b>	<b>23</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>16</b>	<b>62</b>	<b>0</b>	<b>-37</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>7</b>	<b>7</b>	<b>0</b>							

(\*) Adj / Notes:

LCMWC: La Cumbre Mutual Water Company; RSYS: Raytheon; MLC: Morehart Land Company

Spill releases from Bradbury Dam in February 2023 (approximately 69,977 AF) reduced SWP accounts

Total SC Storage at month end (AF): 0

Total Storage at month end (AF): 0













**SUMMARY OF WATER USED**  
**CACHUMA PROJECT - CONTRACT #175R-1802**

Contract Year: 10/1/22 to: 9/30/23

Contract Entity: **Santa Barbara Co. Water Agency**  
 Update by COMB 3/31/2023

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr	TOTAL WATER USED				CARRYOVER WATER					CURRENT YEAR ALLOCATION		
			Acre-feet				WATER USE CHARGED					WATER USE CHARGED		
			Use %	M & I	Agr	Total	Evap	Div	Total	Allocation		Allocation		Total
Oct	35,586.3	-	0.1	1,443.3	368.4	1,811.6	400.7	1,811.6	2,212.3	1,767.5	444.8	-	-	-
Nov	-	-	0.0	937.0	163.4	1,100.4	215.4	1,100.4	1,315.7	1,111.4	204.3	-	-	-
Dec	-	-	0.0	573.9	36.6	610.5	89.4	610.5	699.9	648.1	51.9	-	-	-
Jan	-	-	0.0	816.4	44.0	860.4	51.1	860.4	911.5	857.5	53.9	-	-	-
Feb	-	25,714.0	0.0	1,231.1	120.7	1,351.7	80.5	1,351.7	1,432.2	1,297.8	134.4	-	-	-
Mar	-	-	0.0	1,356.8	90.0	1,446.8	-	-	-	-	-	1,356.8	90.0	1,446.8
Apr	-	-	-	-	-	-	-	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total	35,586.3	25,714.0	0.2	6,358.4	823.0	7,181.4	837.1	5,734.6	6,571.7	5,682.3	889.4	1,356.8	90.0	1,446.8

Month	CONVERSIONS (M&I AND AG SPLIT)			
	CARRYOVER WATER		CURR YR ALLOCATION	
	M & I	Agr	M & I	Agr
Oct	-	-	-	-
Nov	-	-	-	-
Dec	-	-	-	-
Jan	-	-	-	-
Feb	-	-	-	-
Mar	-	-	-	-
Apr	-	-	-	-
May	-	-	-	-
Jun	-	-	-	-
Jul	-	-	-	-
Aug	-	-	-	-
Sep	-	-	-	-

Month	SCHEDULE AND REVISIONS				SCHEDULE AND REVISIONS		
	Begin Bal	Total	Allocation		Allocation		Total
			M & I	Agr	M & I	Agr	
Oct	-	(126.0)	(71.8)	(54.2)	84.7	41.3	126.0
Nov	-	-	-	-	-	-	-
Dec	-	-	-	-	-	-	-
Jan	-	-	-	-	-	-	-
Feb	-	(28,888.6)	(23,020.5)	(5,868.2)	19,373.8	6,340.2	25,714.0
Mar	-	-	-	-	1,356.8	90.0	1,446.8
Apr	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-

Month	BALANCE - CARRYOVER WATER				BALANCE - CURR YR ALLOC		
	County Parks Usage (AF)	Total	Allocation		Allocation		Total
			M & I	Agr	M & I	Agr	
Oct	1.6	33,248.0	26,935.3	6,312.7	84.7	41.3	126.0
Nov	1.4	31,932.3	25,823.9	6,108.4	84.7	41.3	126.0
Dec	0.8	31,232.4	25,175.9	6,056.5	84.7	41.3	126.0
Jan	0.8	30,320.9	24,318.3	6,002.6	84.7	41.3	126.0
Feb	-	-	-	-	19,458.5	6,381.5	25,840.0
Mar	1.0	-	-	-	19,458.5	6,381.5	25,840.0
Apr	-	-	-	-	-	-	-
May	-	-	-	-	-	-	-
Jun	-	-	-	-	-	-	-
Jul	-	-	-	-	-	-	-
Aug	-	-	-	-	-	-	-
Sep	-	-	-	-	-	-	-

**TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 25,840.0**

**Footnotes**  
 (1) Schedule and Revisions (February 2023) - Includes Surplus Water (+153.5 AF), Carryover Water Spilled (-29,042.1 AF), WY 23 Allocation (+25,714 AF)



April 2023

Day <sup>1</sup>	Lake Cachuma				Rainfall		Evaporation <sup>3</sup>		CCWA Inflow	Release					Computed Inflow <sup>5</sup>	
	Elevation	Storage <sup>2</sup>	Change in Storage	Surface Area	PP	PPAF	EV	EVAF		QICWA	Park Use	Tunnel	Hilton Creek	WR 89-18		Outlet <sup>4</sup>
SHEF Tag→	HL	LS	LC													
	ft	acre-feet	acre-feet	acres	inches	acre-feet	inches	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet
31	751.48	188,271														
1	751.62	188,701	430.6	3,079.6	-	-	0.080	16.42	-	-	29.00	8.46	-	42.00	4,270.00	4,796.50
2	751.77	189,162	461.4	3,084.3	-	-	0.160	32.90	-	-	28.09	8.50	-	43.00	3,936.00	4,509.86
3	751.88	189,501	338.3	3,087.8	-	-	0.100	20.59	-	-	27.56	8.50	-	43.00	3,943.00	4,380.99
4	751.82	189,316	(184.5)	3,085.9	-	-	0.280	57.60	-	-	34.37	8.50	-	42.00	3,944.00	3,901.92
5	751.77	189,162	(153.8)	3,084.3	-	-	0.180	37.01	-	-	35.71	8.52	-	43.00	3,942.00	3,912.45
6	751.68	188,886	(276.8)	3,081.5	-	-	0.120	24.65	-	-	37.20	8.47	-	43.00	3,937.00	3,773.49
7	751.51	188,363	(522.9)	3,076.1	-	-	0.170	34.86	-	-	36.62	8.55	-	43.00	3,928.00	3,528.15
8	751.34	187,840	(522.9)	3,070.8	-	-	0.180	36.85	-	-	43.19	8.45	-	42.00	3,917.00	3,524.60
9	751.14	187,225	(615.2)	3,064.4	-	-	0.160	32.69	-	-	42.18	8.48	-	43.00	3,682.00	3,193.18
10	750.92	186,551	(674.1)	3,057.3	-	-	0.180	36.69	-	-	52.41	8.46	-	42.00	3,610.00	3,075.48
11	750.97	186,703	152.2	3,059.0	-	-	0.110	22.43	-	-	48.11	8.47	-	-	2,481.00	2,712.17
12	751.14	187,225	521.9	3,064.4	-	-	0.210	42.90	-	-	52.77	8.46	-	-	2,192.00	2,818.05
13	751.29	187,686	461.4	3,069.2	-	-	0.120	24.55	-	-	53.25	8.54	-	-	2,198.00	2,745.72
14	751.58	188,578	892.0	3,078.3	-	-	0.210	43.10	-	-	56.22	12.13	-	196.00	1,220.00	2,419.44
15	751.85	189,409	830.5	3,086.9	-	-	0.140	28.81	-	-	55.84	12.23	-	260.00	-	1,187.35
16	752.09	190,150	741.1	3,094.6	0.02	5.2	0.200	41.26	-	-	58.24	12.31	-	264.00	-	1,111.78
17	752.32	190,865	714.9	3,102.3	-	-	0.130	26.89	-	-	57.85	12.29	-	263.00	-	1,074.96
18	752.54	191,548	683.8	3,109.7	-	-	0.180	37.32	-	-	56.56	12.30	-	232.00	-	1,022.02
19	752.76	192,232	683.8	3,117.1	-	-	0.210	43.64	-	-	58.67	12.32	-	171.00	-	969.47
20	752.92	192,730	497.3	3,122.5	-	-	0.220	45.80	-	-	65.19	12.43	-	303.00	-	923.76

<b>Total</b>			<b>4,459.14</b>		<b>0.02</b>	<b>5.16</b>	<b>3.340</b>	<b>686.96</b>	-	-	<b>929.03</b>	<b>196.37</b>	-	<b>2,115.00</b>	<b>47,200.00</b>	<b>55,581.35</b>
<b>Minimum</b>	750.92	186,551	(674.08)	3,057.34	-	-	0.080	16.42	-	-	27.56	8.45	-	-	-	923.76
<b>Average</b>	751.75	189,092	222.96	3,083.82	0.00	0.26	0.167	34.35	-	-	46.45	9.82	-	105.75	2,360.00	2,779.07
<b>Maximum</b>	752.92	192,730	891.99	3,122.46	0.02	5.16	0.280	57.60	-	-	65.19	12.43	-	303.00	4,270.00	4,796.50

Comments

1. Data based on 24-hour period ending 0800
2. Storage volume based on 2021 bathymetric survey.
3. Evaporation in inches is the measured pan evaporation. Calculated evaporation in acre feet uses the April pan factor: 80%
4. Indicated outlet release include any leakage around gates.
5. Computed inflow is the sum of change in storage, releases, and evaporation minus precip on the reservoir surface and CCWA inflow.



**Santa Barbara County Parks Division,  
Cachuma Lake Recreation Area  
Summary of Aquatic Invasive Species Vessel Inspection Program  
and Early Detection Monitoring Program: March 2023**



<b>Cachuma Lake Recreation Area Launch Data -- March 2023</b>		
<b>Inspection Data</b>		
Total Vessels Entering Park	421	
Total Vessels Launched	479	
Total Vessels Quarantined	22	
Returning (Tagged) Boats Launched	392	82%
Kayak/Canoe: Inspected, launched	87	18%
4-stroke Engines	*	
2-strokes, w/CARB star ratings	*	
2-strokes, NO emissions ratings	*	
<b>Quarantine Data</b>		
Total Vessels Quarantined	22	
Quarantined 14 days	*	
Quarantined 30 days	22	
<b>Quarantine Cause</b>		
Water on vessel*	*	
Debris on hull*	*	
Plug installed*	*	
From infected county	4	
Ballast tanks*	*	
Boat longer than 24 feet*	*	
Out-of-state	0	
Unspecified*	*	
Mandatory Quarantine All Untagged Boats	22	
<b>Demographic Data</b>		
Quarantined from infected county	4	
Quarantined from SB County	17	
Quarantined from uninfected co	1	

Boat Launch Tags: Boats with Cachuma Lake Boat Launch Tags attach boat to trailer.

No mussel species have been located on any vessel entering Cachuma Lake as of the last day of this month.

\* These conditions are no longer being tracked.

**EARLY DETECTION MONITORING PROGRAM SUMMARY**

Summary: No Dreissenid Mussels were detected, nor Aquatic Invasive Species of any kind.

Inspection Site: Cachuma Lake Reservoir, Santa Barbara County, California.

Plankton Tow Inspection Date and Time: 2023.03.12, 10 a.m.

Artificial Substrate & Surface Survey Date and Time: 2023.03.12; 10 a.m. and 2023.03.31, 10 a.m.

Method: 3 Artificial Substrate Stations; 16 meters/52.5 linear feet of line as well as ramp, dock, anchor, etc.

Surveyors: COSB, Parks Division Quagga Grant Staff (P. Medel).

Lake elevation: Max feet: 753.00, current 750.25; Max acre-feet: 192,978, current: 184,603;

Capacity: 97.6% At of the end of the survey month.