

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

**by Teleconference Call ONLY**

**Teleconference Call-in Number: 1 (888) 899-7789  
Passcode: 804443#**

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**Monday, September 28, 2020**

**1:00 PM**

**AGENDA**

**NOTICE:** This meeting shall be conducted by teleconference call only as authorized and in accordance with Government Code section 54953 and the California Governor's Executive Order N-29-20 and N-33-20.

- 1. CALL TO ORDER, ROLL CALL**
- 2. PUBLIC COMMENT** (*Public may address the Board on any subject matter not on the agenda and within the Board's jurisdiction. See "Notice to the Public" below.*)
- 3. CONSENT AGENDA** (*All items on the Consent Agenda are considered 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 July 27, 2020 Regular Board Meeting
  - b. Minutes of August 24, 2020 Regular Board Meeting
  - c. Investment of Funds
    - Financial Reports
    - Investment Reports
  - d. Review of Paid Claims
- 4. VERBAL REPORTS FROM BOARD COMMITTEES**  
Receive verbal information regarding the following committee meetings:
  - Oak Tree Committee Meeting – September 3, 2020
  - Operations Committee Meeting – September 17, 2020
- 5. LAKE CACHUMA SECURED PIPELINE ENGINEERING DESIGNS - MAKAI OCEAN ENGINEERING CONTRACT ADJUSTMENT**  
Action: Receive information on the engineering design contract with Makai Ocean Engineering
- 6. INFRASTRUCTURE IMPROVEMENT PROJECT - SCADA SYSTEM PROGRAMMABLE LOGIC CONTROLLERS (PLC) UPGRADE PROJECT**  
Action: Recommend approval by motion and roll call vote of the Board
- 7. LAKE CACHUMA OAK TREE RESTORATION PROGRAM – FISCAL YEAR 2020-21**  
Action: Recommend approval by motion and roll call vote of the Board

**8. GENERAL MANAGER REPORT**

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

- Administration
- Virtual Meetings
- Engineering / Operations

**9. ENGINEER'S REPORT**

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

- Climate Conditions
- Lake Elevation / Downstream Release Update
- AWIA Emergency Response Plan
- Infrastructure Improvement Projects / Work Plan

**10. OPERATIONS DIVISION REPORT**

Received 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 regarding Fisheries Division, 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. MEETING SCHEDULE**

- **October 26, 2020 at 1:00 PM**
- **Board Packages available on COMB website [www.cachuma-board.org](http://www.cachuma-board.org)**

**16. 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 that is not scheduled for as an agenda item before 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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**MINUTES OF REGULAR MEETING  
OF  
CACHUMA OPERATION AND MAINTENANCE BOARD**

**by Teleconference Call ONLY**

**Monday, July 27, 2020**

**1:00 PM**

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

The meeting was called to order by President Holcombe at 1:01 PM.

All attendees participated telephonically pursuant to California Governor Gavin Newsom's Executive Orders N-25-20 and N-29-20.

**Directors Present:**

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

**General Counsel Present:**

William Carter, Musick Peeler, Garrett, LLP

**Staff Present:**

Janet Gingras, General Manager	Shane King, Operations Supervisor
Edward Lyons, Administrative Manager/CFO	Dorothy Turner, Administrative Assistant II
Joel Degner, Engineer/Operations Division Manager	Perri Wolfe, Administrative Analyst
Timothy Robinson, Fisheries Division Manager	

**Others Present:**

Joshua Haggmark, City of Santa Barbara	Cathy Taylor, City of Santa Barbara
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**2. INTRODUCTION OF NEW STAFF**

Ms. Gingras introduced Mr. Shane King to the Board, welcoming him to the staff as Operations Supervisor. She announced that Ms. Perri Wolfe, formerly a Fisheries Division staff member, had been reassigned to the Administrative team as an Administrative Analyst.

**3. PUBLIC COMMENT**

There was no public comment.

## 5. CONSENT AGENDA

- a. Minutes of June 22, 2020 Regular Board Meeting
- b. Investment of Funds
  - Financial Reports
  - Investment Reports
- c. Review of Paid Claims

Ms. Gingras introduced the Consent Agenda as contained in the Board packet, noting that the agenda items would be approved in two motions as Director Borah was not present at the previous meeting. Mr. Lyons reviewed the Paid Claims report, noting, with explanation, various items paid in the prior month.

Director Sneddon motioned to approve the Minutes of the June 22, 2020 meeting. Seconded by Director Hayman, the motion carried with a vote of four in favor and one abstention.

**Ayes:** Sneddon, Hayman, Holcombe

**Nays:**

**Absent:**

**Abstain:** Borah

Director Hayman motioned to approve items 3b. and 3c. of the Consent Agenda. Director Sneddon seconded followed by a unanimous vote of six in favor.

**Ayes:** Sneddon, Hayman, Borah, Holcombe

**Nays:**

**Absent:**

**Abstain:**

## 6. VERBAL REPORTS FROM BOARD COMMITTEES

- ***Operations Committee Meeting – July 15, 2020*** – Director Sneddon reviewed the items in the committee agenda and noted that Item #3 would be addressed in this meeting as well as a report on the status of the Water Quality and Sediment Management Study.
- ***Fisheries Committee Meeting – July 17, 2020*** – Ms. Gingras reported out on the committee agenda in the absence of Director Hanson and advised that the Scopes of Work were contained as an action item in this meeting.

## 7. BOARD COMMITTEE APPOINTMENTS FOR FISCAL YEAR 2020-21

1. Administrative Committee
2. Operations Committee
3. Fisheries Committee
4. Lake Cachuma Oak Tree Committee
5. Public Outreach Committee

President Holcombe advised of her intention to make no changes in Board Committee appointments, barring any requests for changes from members. As there were none, the Committees remain unchanged for Fiscal Year 2020-21 per the matrix which follows.

COMMITTEE NAME	COMMITTEE CHAIR	COMMITTEE MEMBER	ALTERNATE MEMBER
<b>Administrative (Finance, Personnel, Legal)</b>	Director Holcombe	Director Hanson	Director Hayman
<b>Operations</b>	Director Sneddon	Director Holcombe	Director Hanson
<b>Fisheries</b>	Director Hanson	Director Hayman	Director Holcombe
<b>Lake Cachuma Oak Tree</b>	Director Hayman	Director Sneddon	Director Hanson
<b>Public Outreach</b>	Director Hanson	Director Holcombe	Director Hayman

**8. PROPOSED ANNUAL RESOLUTIONS**

- a. Resolution No. 709 Adopting Annual Statement of Investment Policy
- b. Resolution No. 710 Authorizing Investment of Monies in the Local Agency Investment Fund
- c. Resolution No. 711 Establishing a Supplemental Account Agreement for Telephone Transfers
- d. Resolution No. 712 Establishing a Check Signing Policy for General Fund Account Payment of Claims
- e. Resolution No. 713 Authorizing Signatories for General Fund Account at American Riviera Bank
- f. Resolution No. 714 Authorizing Signatories for Revolving Fund Account at American Riviera Bank
- g. Resolution No. 715 Establishing a Check Signing Policy for Cachuma Project Trust Fund and Master Contract Renewal Fund Accounts for Payment of Claims
- h. Resolution No. 716 Authorizing Signatories for Trust Fund and Renewal Fund Accounts at American Riviera Bank
- i. Resolution No. 717 Establishing a Time and Place for Board Meetings

Ms. Gingras presented the annual banking and board meeting resolutions, noting that they are unchanged in content from those which they supersede. Director Sneddon put forth a motion to approve Resolutions

709 through 717 as presented. Director Hayman seconded and the motion carried with a unanimous vote of six in favor.

**Ayes:** Sneddon, Hayman, Borah, Holcombe

**Nays:**

**Absent:**

**Abstain:**

**9. INFRASTRUCTURE IMPROVEMENT PROJECT – SCHEDULE (F) AIR VACUUM AIR RELEASE (AVAR) BLOW-OFF (BO) STRUCTURE REHABILITATION PROJECT – MATERIALS PURCHASE**

Mr. Degner presented his request for materials purchases for the Schedule F - AVAR/Blow-Off project. He outlined the plans for the project and provided justification for ordering custom flanges in advance of the commencement of the work. Mr. Degner fielded questions from the Board. Director Borah put forth a motion to approve the expenditures requested. Director Hayman seconded. The motion carried unanimously with a vote of six in favor.

**Ayes:** Sneddon, Hayman, Borah, Holcombe

**Nays:**

**Absent:**

**Abstain:**

**10. SCOPES OF WORK (SOW) AND DRAFT PROFESSIONAL SERVICES AGREEMENTS FOR FISCAL YEAR 2020-21 FOR FISHERIES DIVISION CONSULTANTS**

Mr. Robinson presented the Fiscal Year 2020-21 Scopes of Work for the Fisheries Division. He reviewed each document and fielded questions from the Board. The Scopes of Work were duly received and filed.

**11. ESRI CONFERENCE PRESENTATION - (<https://www.cachuma-board.org/stream-and-fish-habitat-restoration-project>)**

Mr. Robinson presented the Quiota Creek Fish Passage Improvement Projects Story-Map, an ArcGIS tool which formed a part of staff's recent virtual ESRI conference presentation. He demonstrated the interactive features of the tool and fielded questions and comments, including accolades from the Board. Finally, Mr. Robinson noted that the Story-Map is shareable with staff and public.

**12. GENERAL MANAGER REPORT**

- Administration
- Engineering/Operations Division

Ms. Gingras presented the General Manager report, highlighting the recent negotiations surrounding the renewal of the Amendatory Operation & Maintenance Transferred Project Works contract and its current status. Additionally she summarized ongoing operations in the COVID-19 climate and reviewed the contracts executed by the General Manager during the prior fiscal quarter. Finally Ms. Gingras noted an informative presentation from consultants detailing the results of the Water Quality and Sediment Management Study (WQSMS) and added that Member Agency technical staff are performing a review of the final report.



### **13. ENGINEERING REPORT**

- Climate Conditions
- Lake Elevation Projection
- Water Quality and Sediment Management Study
- Infrastructure Improvement Projects / Work Plan

Mr. Degner introduced the Engineering report with a review of climate conditions, highlighting the Live Fuel Moisture index generated by the Santa Barbara County Fire Department which is critical in assessing fire danger in the Cachuma watershed. Further, he provided information regarding the downstream water rights release anticipated for late August which generated questions and discussion. Additionally, Mr. Degner noted that COMB awaits comments from Member Agency technical staff regarding the WQSMS. Finally, he reviewed the Infrastructure Improvement Projects under way.

### **14. OPERATIONS DIVISION REPORT**

- Lake Cachuma Operations
- Operation and Maintenance Activities

Mr. King presented the Operations Division report, highlighting staff activities in response to Dig Alerts, Lower Reach structure maintenance and observation of Southern California Edison's work impacting Reclamation's Right-of-Way. He noted the location of buried valves and provided explanation for the significance of raised air vents.

### **15. FISHERIES DIVISION REPORT**

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

Mr. Robinson presented the Fisheries Division report, providing an in-depth explanation for required water releases being directed to Hilton Creek upper release point rather than the outlet works. He noted staff's ongoing work required by the 2000 Biological Opinion and the status of the nearly completed South Side Erosion Control and Reforestation project. Mr. Robinson fielded questions from the Board.

### **16. PROGRESS REPORT ON LAKE CACHUMA OAK TREE PROGRAM**

- Maintenance and Monitoring

Mr. Robinson presented the Oak Tree program report, noting that normal maintenance was ongoing. He highlighted staff's successful improvement of the pumping operation on the water truck, a move intended to prolong its useful life. Finally, Mr. Robinson reported that the Oak Tree financial reports were complete.

### **17. MONTHLY CACHUMA PROJECT REPORTS**

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

Ms. Gingras presented the water reports noting nothing unusual. Mr. Degner added that there was a good balance between water production and water delivery resulting in minimal apparent water loss.

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

Director Sneddon requested that a board discussion of visual accessibility for meetings be included in an upcoming agenda.

**19. [CLOSED SESSION]: CONFERENCE WITH LEGAL COUNSEL: EXISTING AND POTENTIAL LITIGATION**

- a. [Government Code Section 54956.9(d)(1)]  
Name of matter: *Cachuma Operation & Maintenance Board v. Santa Ynez River Water Conservation District, Improvement District Number 1*, Case No. 19CV01873 – Breach of Contract and Declaratory Relief

The Board entered into Closed Session at 3:02 PM.

**20. RECONVENE INTO OPEN SESSION**

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

- 13a. *Cachuma Operation & Maintenance Board v. Santa Ynez River Water Conservation District, Improvement District Number 1*, Case No. 19CV01873 – Breach of Contract and Declaratory Relief

The Board reconvened into open session at 3:10 PM. There was no reportable action.

**21. MEETING SCHEDULE**

- **August 24, 2020 at 1:00 PM**
- **Board Packages available on COMB website [www.cachuma-board.org](http://www.cachuma-board.org)**

**22. COMB ADJOURNMENT**

There being no further business, the meeting was adjourned at 3:12 PM.

Respectfully submitted,

\_\_\_\_\_  
Janet Gingras, Secretary of the Board

	<i>Approved</i>
√	<i>Unapproved</i>

**APPROVED:**

\_\_\_\_\_  
Polly Holcombe, President of the Board

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

**by Teleconference Call ONLY**

**Monday, August 24, 2020  
1:00 PM**

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

The meeting was called to order by President Holcombe at 1:00 PM.

All attendees participated telephonically pursuant to California Governor Gavin Newsom's Executive Orders N-25-20 and N-29-20.

**Directors Present:**

Polly Holcombe, Carpinteria Valley Water District  
Kristen Sneddon, City of Santa Barbara  
Lauren Hanson, Goleta Water District  
Tobe Plough, Montecito Water District Alternate

**General Counsel Present:**

William Carter, Musick, Peeler, Garrett, LLP

**Staff Present:**

Janet Gingras, General Manager	Timothy Robinson, Fisheries Division Manager
Edward Lyons, Administrative Manager/CFO	Shane King, Operations Supervisor
Joel Degner, Engineer/Operations Division Manager	Dorothy Turner, Administrative Assistant II

**Others Present:**

Dakota Corey, City of Santa Barbara	Steve Spriknik, Woodard & Curran
Brian Dietrick, Woodard & Curran	Matt Young, SB County Water Agency
Dendy Lofton, LimnoTech	

**2. PUBLIC COMMENT**

There was no public comment.

**3. CONSENT AGENDA**

- a. Minutes of July 27, 2020 Regular Board Meeting
- b. Investment of Funds
  - Financial Reports
  - Investment Reports
- c. Review of Paid Claims

Ms. Gingras presented the Consent Agenda, requesting that Mr. Lyons review the Paid Claims report. Mr. Lyons drew the Board's attention to several notable, non-recurring expenditures, providing detail of the expenditures.

The Consent Agenda items were addressed in two motions. As a majority were unavailable to vote to approve the Minutes of July 27, 2020, Director Sneddon motioned that approval of the minutes be deferred until the September Board Meeting. Director Hanson seconded the motion which passed with a unanimous vote of six in favor.

**Ayes:** Sneddon, Plough, Hanson, Holcombe  
**Nays:**  
**Absent:**  
**Abstain:**

Director Hanson made a motion to approve items 3.b. and 3.c. of the Consent Agenda. Seconded by Director Sneddon, the motion carried unanimously with a vote of six in favor.

**Ayes:** Sneddon, Plough, Hanson, Holcombe  
**Nays:**  
**Absent:**  
**Abstain:**

**4. VERBAL REPORTS FROM BOARD COMMITTEES**

- *Administrative Committee Meeting – July 30, 2020* – Director Holcombe recapped the discussions undertaken in the committee with emphasis on article 26 of the pending draft amendatory contract of the Cachuma Transferred Project Works. She noted that the committee delved deeply into the draft contract which is presented for approval within this agenda via resolution.

**5. BOARD DISCUSSION ON REMOTE VISUAL ACCESSIBILITY FOR BOARD MEETINGS**

Ms. Gingras invited Director Sneddon to open the discussion of remote visual accessibility. The discussion among directors which ensued encompassed the options offered in the staff memo as well as various concerns. A general consensus among directors was reached and communicated to staff that, at this time, the directors wish to maintain the status quo for telephonic meetings.

**6. FINANCIAL REVIEW – 4<sup>TH</sup> QUARTER FISCAL YEAR 2019-20**

Mr. Lyons reported that COMB received its third consecutive Certificate of Achievement for Excellence in Financial Reporting by the Government Finance Officers Association. Mr. Lyons also presented a comprehensive financial review of 4<sup>th</sup> Quarter, Fiscal Year 2019-20. He reviewed revenues and noted any variance between annual expenditures and the budget. Mr. Lyons fielded various questions from the Board and received congratulations for the recent GFOA award.

**7. APPOINTMENT OF REPRESENTATIVE TO CACHUMA PROJECT TRUST FUND AND RENEWAL FUND COMMITTEE AND BETTERMENT FUND USE OF FUNDS DISCUSSION**

Ms. Gingras presented the staff memo regarding the appointment of a Representative to the funds committee, recommending that the Board appoint Mr. Lyons to serve in that capacity. She reviewed the process as in past years and fielded questions. Director Hanson moved to appoint Mr. Lyons to the committee. Director Plough seconded and the motion carried with a unanimous vote of six in favor.

**Ayes:** Sneddon, Plough, Hanson, Holcombe  
**Nays:**  
**Absent:**  
**Abstain:**

**8. RESOLUTION NO. 718 – AMENDATORY CONTRACT NO. 14-06-200-5222RA FOR THE TRANSFER OF THE OPERATION AND MAINTENANCE OF THE CACHUMA TRANSFERRED PROJECT WORKS - CACHUMA PROJECT, CALIFORNIA**

Ms. Gingras presented the agenda item and resolution for Board approval. She reviewed the negotiation process which took place and provided a recap of any changes from the original contract. Ms. Gingras fielded questions and comments and noted a small edit to the Resolution. Director Sneddon put forth a motion to approve the Resolution as edited. Director Hanson seconded the motion which passed unanimously with a vote of six in favor.

**Ayes:** Sneddon, Plough, Hanson, Holcombe

**Nays:**

**Absent:**

**Abstain:**

**9. WATER QUALITY AND SEDIMENT MANAGEMENT STUDY PRESENTATION**

Ms. Gingras introduced the Water Quality and Sediment Management Study presentation providing a summary of the project to date. Mr. Degner introduced the presenters from Woodard & Curran and LimnoTech, who directed Board attention to the slides provided. The presenters provided a thorough overview of the study which included recommended management actions and fielded questions from the Board. Board members inquired about a future COMB presentation to include prioritization of management actions generated from the study and development of potential grant funding sources to support those actions.

**10. UPDATE ON SOUTH SIDE EROSION CONTROL AND REFORESTATION PROJECT AT QUIOTA CREEK CROSSING NO. 8**

Mr. Robinson presented the update on the South Side Erosion Control and Reforestation project, reviewing the course of construction and the costs incurred. He noted that the final phase, reforestation, remains to be completed in September, after which COMB will seek reimbursement from the National Fish and Wildlife Foundation. A final report is scheduled to be presented to the Board at the October meeting.

**11. GENERAL MANAGER REPORT**

- Administration
- Virtual Meetings

Ms. Gingras presented the General Manger report, highlighting the execution of the first amendment to the separation agreement between COMB and SYRWCD ID No.1. Additionally she reported COMB's participation in several recent meetings, including meetings with the County Water Agency, IRWM and the County Office of Emergency Management. She noted that COMB has developed an internal power shutdown plan and taken precautionary measures to ensure power to various critical infrastructure in the event of power shutdowns. Finally, Ms. Gingras fielded questions from the Board.

**12. ENGINEER'S REPORT**

- Climate Conditions
- Lake Elevation Projection
- AWIA Emergency Response Plan
- Infrastructure Improvement Projects / Work Plan

Mr. Degner presented the Engineer's report, highlighting climate conditions and noting that the Water Quality buoy provided data during the recent heat wave that prompted COMB to draft below the thermocline, thereby providing colder water to the member agencies. He reviewed lake elevation in light of the upcoming downstream water rights release and the resultant updated modeling. Additionally, Mr. Degner reported the status of the emergency response plan and noted that plans had been updated and several new plans had been developed. Finally, he reviewed briefly the ongoing infrastructure improvement projects.

### **13. OPERATIONS DIVISION REPORT**

- Lake Cachuma Operations
- Operation and Maintenance Activities

Mr. King presented the Operations Division report, noting that regular maintenance projects had been completed, including structure maintenance in the lower reach. He reported that staff had been monitoring several projects in and around Reclamation's right-of-way, to ensure integrity of the easements as well as security of the pipeline. Additionally, Mr. King provided updates to the in-process PLC upgrades, including the completion of the PLC 8 upgrade and the isolation of power to PLC 7. Finally, Mr. King reported staff participation in Traffic and Flagger training as part of the preparation for the Lower Reach Lateral Rehabilitation Project.

### **14. 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 were being met at the designated check points. He confirmed the start date of the downstream water rights release from Lake Cachuma and reported that snorkel surveys to meet the requirements of RPM6 of the 2000 Biological Opinion were under way and would continue throughout and after the release.

### **15. PROGRESS REPORT ON LAKE CACHUMA OAK TREE PROGRAM**

- Maintenance and Monitoring

Mr. Robinson presented the Oak Tree report, noting only that the recent heat wave, while hard on staff, was less so for the oak trees which were thriving. Irrigation efforts continue to focus on the newer trees only.

### **16. MONTHLY CACHUMA PROJECT REPORTS**

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

Ms. Gingras presented the Cachuma Water Reports noting nothing unusual to report. She fielded a question from a Board Member.

### **17. DIRECTORS' REQUESTS FOR AGENDA ITEMS FOR FUTURE MEETING**

There were no director requests.

**18. MEETING SCHEDULE**

- **September 28, 2020 at 1:00 PM**
- **Board Packages available on COMB website [www.cachuma-board.org](http://www.cachuma-board.org)**

**19. COMB ADJOURNMENT**

There being no further business, the meeting was adjourned at 3:45 PM.

Respectfully submitted,

\_\_\_\_\_  
Janet Gingras, Secretary of the Board

	<i>Approved</i>
√	<i>Unapproved</i>

**APPROVED:**

\_\_\_\_\_  
Polly Holcombe, President of the Board

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**Cachuma Operation & Maintenance Board**  
**Statement of Net Position**  
As of August 31, 2020  
**UNAUDITED FINANCIALS**

	<b>Aug 31, 20</b>
<b>ASSETS</b>	
<b>Current Assets</b>	
<b>Checking/Savings</b>	
<b>Trust Funds</b>	
1210 · Warren Act Trust Fund	\$ 134,545.72
1220 · Renewal Fund	10,215.61
<b>Total Trust Funds</b>	\$ 144,761.33
1050 · General Fund	632,520.94
1100 · Revolving Fund	348,348.56
<b>Total Checking/Savings</b>	1,125,630.83
<b>Accounts Receivable</b>	
1301 · Accounts Receivable	1,570.02
<b>Total Accounts Receivable</b>	1,570.02
<b>Other Current Assets</b>	
1010 · Petty Cash	500.00
1200 · LAIF	1,390,654.59
1303 · Bradbury SOD Act Assessment Receivable	207,474.00
1304 · Lauro Dam SOD Assessment Receivable	31,939.08
1400 · Prepaid Insurance	10,178.72
<b>Total Other Current Assets</b>	1,640,746.39
<b>Total Current Assets</b>	2,767,947.24
<b>Fixed Assets</b>	
1500 · Vehicles	468,728.36
1505 · Office Furniture & Equipment	306,053.41
1510 · Mobile Offices	97,803.34
1515 · Field Equipment	550,152.72
1525 · Paving	38,351.00
1550 · Accumulated Depreciation	(1,276,895.81)
<b>Total Fixed Assets</b>	184,193.02
<b>Other Assets</b>	
1923 · Deferred Outflow (GASB 75)	214,063.00
1910 · Long Term Bradbury SOD Act Assessment Receivable	4,271,329.07
1920 · Long Term Lauro SOD Act Assessment Receivable	772,150.06
1922 · Deferred Outflow of Resources (GASB 68)	497,820.00
<b>Total Other Assets</b>	5,755,362.13
<b>TOTAL ASSETS</b>	<b>\$ 8,707,502.39</b>

**Cachuma Operation & Maintenance Board**  
**Statement of Net Position**  
As of August 31, 2020  
**UNAUDITED FINANCIALS**

	<b>Aug 31, 20</b>
<b>LIABILITIES &amp; NET POSITION</b>	
<b>Liabilities</b>	
<b>Current Liabilities</b>	
<b>Accounts Payable</b>	
2200 · Accounts Payable	\$ 116,232.82
<b>Total Accounts Payable</b>	116,232.82
<b>Other Current Liabilities</b>	
2505 · Accrued Wages	11,794.50
2550 · Vacation/Sick	183,338.51
2561 · Bradbury Dam SOD Act	207,474.00
2563 · Lauro Dam SOD Act	31,939.08
2565 · Accrued Interest SOD Act	52,227.00
2567 · Loan Payable Current EPFP	413,614.48
2590 · Deferred Revenue	144,761.33
<b>Total Other Current Liabilities</b>	1,045,148.90
<b>Total Current Liabilities</b>	1,161,381.72
<b>Long Term Liabilities</b>	
2602 · Long Term SOD Act Liability-Bradbury	4,271,319.07
2603 · Long Term SOD Act Liability - Lauro	772,150.06
2604 · OPEB Long Term Liability	5,384,212.00
2610 · Net Pension Liability (GASB 68)	1,732,868.00
2611 · Deferred Inflow of Resources (GASB 68)	141,294.00
<b>Total Long Term Liabilities</b>	12,301,843.13
<b>Total Liabilities</b>	13,463,224.85
<b>Net Position</b>	
3000 · Opening Bal Net Position	(5,296,580.05)
3901 · Retained Net Assets	84,716.77
Net Income	456,140.82
<b>Total Net Position</b>	(4,755,722.46)
<b>TOTAL LIABILITIES &amp; NET POSITION</b>	<b>\$ 8,707,502.39</b>

**Cachuma Operation & Maintenance Board**  
**Statement of Revenues and Expenditures**  
 Budget vs. Actuals July 2020 - June 2021

	Fisheries				Operations				TOTAL			
	Jul - Aug 20	Budget	\$ Over Budget	% of Budget	Jul - Aug 20	Budget	\$ Over Budget	% of Budget	Jul - Aug 20	Budget	\$ Over Budget	% of Budget
<b>Revenue</b>												
<b>3000 REVENUE</b>												
3001 - O&M Budget (Qtrly Assessments)	\$ 281,742.00	\$ 1,001,522.00	\$ (719,780.00)	28.13%	\$ 781,911.00	\$ 3,806,921.00	\$ (3,025,010.00)	20.54%	\$ 1,063,653.00	\$ 4,808,443.00	\$ (3,744,790.00)	22.12%
3006 - Warren Act	0.00	62,780.00	-62,780.00	0.0%	0.00				0.00	62,780.00	-62,780.00	0.0%
3007 - Renewal Fund	0.00	203,298.00	-203,298.00	0.0%	0.00				0.00	203,298.00	-203,298.00	0.0%
3035 - Cachuma Project Betterment Fund	0.00	90,000.00	-90,000.00	0.0%	0.00				0.00	90,000.00	-90,000.00	0.0%
<b>Total 3000 REVENUE</b>	\$ 281,742.00	\$ 1,357,600.00	\$ (1,075,858.00)	20.75%	\$ 781,911.00	\$ 3,806,921.00	\$ (3,025,010.00)	20.54%	\$ 1,063,653.00	\$ 5,164,521.00	\$ (4,100,868.00)	20.6%
<b>Expense</b>												
<b>3100 LABOR - OPERATIONS</b>	\$ -	\$ -	\$ -	0.0%	\$ 132,392.39	\$ 1,010,140.00	\$ (877,747.61)	13.11%	\$ 132,392.39	\$ 1,010,140.00	\$ (877,747.61)	13.11%
<b>3200 VEH &amp; EQUIPMENT</b>												
3201 - Vehicle/Equip Mtce	0.00				5,412.97	35,000.00	-29,587.03	15.47%	5,412.97	35,000.00	-29,587.03	15.47%
3202 - Fixed Capital	0.00				0.00	25,000.00	-25,000.00	0.0%	0.00	25,000.00	-25,000.00	0.0%
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				9.77	10,000.00	-9,990.23	0.1%	9.77	10,000.00	-9,990.23	0.1%
<b>Total 3200 VEH &amp; EQUIPMENT</b>	0.00				5,422.74	75,000.00	-69,577.26	7.23%	5,422.74	75,000.00	-69,577.26	7.23%
<b>3300 CONTRACT LABOR</b>												
3301 - Conduit, Meter, Valve & Misc	0.00				4,903.36	20,000.00	-15,096.64	24.52%	4,903.36	20,000.00	-15,096.64	24.52%
3302 - Buildings & Roads	0.00				385.00	20,000.00	-19,615.00	1.93%	385.00	20,000.00	-19,615.00	1.93%
3303 - Reservoirs	0.00				4,074.47	60,000.00	-55,925.53	6.79%	4,074.47	60,000.00	-55,925.53	6.79%
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>	0.00				9,362.83	130,000.00	-120,637.17	7.2%	9,362.83	130,000.00	-120,637.17	7.2%
<b>3400 MATERIALS &amp; SUPPLIES</b>												
3401 - Conduit, Meter, Valve & Misc	0.00				2,137.94	65,000.00	-62,862.06	3.29%	2,137.94	65,000.00	-62,862.06	3.29%
3402 - Buildings & Roads	0.00				12.93	8,000.00	-7,987.07	0.16%	12.93	8,000.00	-7,987.07	0.16%
3403 - Reservoirs	0.00				0.00	5,000.00	-5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
<b>Total 3400 MATERIALS &amp; SUPPLIES</b>	0.00				2,150.87	78,000.00	-75,849.13	2.76%	2,150.87	78,000.00	-75,849.13	2.76%
<b>3500 OTHER EXPENSES</b>												
3501 - Utilities	0.00				845.94	7,000.00	-6,154.06	12.09%	845.94	7,000.00	-6,154.06	12.09%
3502 - Uniforms	0.00				0.00	5,000.00	-5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
3503 - Communications	0.00				1,406.86	15,800.00	-14,393.14	8.9%	1,406.86	15,800.00	-14,393.14	8.9%
3504 - USA & Other Services	0.00				229.45	4,000.00	-3,770.55	5.74%	229.45	4,000.00	-3,770.55	5.74%
3505 - Miscellaneous	0.00				1,584.76	11,200.00	-9,615.24	14.15%	1,584.76	11,200.00	-9,615.24	14.15%
3506 - Training	0.00				390.00	3,000.00	-2,610.00	13.0%	390.00	3,000.00	-2,610.00	13.0%
<b>Total 3500 OTHER EXPENSES</b>	0.00				4,457.01	46,000.00	-41,542.99	9.69%	4,457.01	46,000.00	-41,542.99	9.69%
<b>4100 LABOR - FISHERIES</b>	110,233.48	729,413.00	-619,179.52	15.11%	0.00				110,233.48	729,413.00	-619,179.52	15.11%
<b>4200 VEHICLES &amp; EQUIP - FISHERIES</b>												
4270 - Vehicle/Equip Mtce	2,998.12	30,000.00	-27,001.88	9.99%	0.00				2,998.12	30,000.00	-27,001.88	9.99%
4280 - Fixed Capital	2,221.03	15,000.00	-12,778.97	14.81%	0.00				2,221.03	15,000.00	-12,778.97	14.81%
4290 - Miscellaneous	0.00	2,500.00	-2,500.00	0.0%	0.00				0.00	2,500.00	-2,500.00	0.0%
<b>Total 4200 VEHICLES &amp; EQUIP - FISHERIES</b>	5,219.15	47,500.00	-42,280.85	10.99%	0.00				5,219.15	47,500.00	-42,280.85	10.99%
<b>4220 CONTRACT LABOR - FISHERIES</b>												
4221 - Meters & Valves	1,247.45	3,000.00	-1,752.55	41.58%	0.00				1,247.45	3,000.00	-1,752.55	41.58%
4222 - Fish Projects Maintenance	0.00	20,000.00	-20,000.00	0.0%	0.00				0.00	20,000.00	-20,000.00	0.0%
<b>Total 4220 CONTRACT LABOR - FISHERIES</b>	1,247.45	23,000.00	-21,752.55	5.42%	0.00				1,247.45	23,000.00	-21,752.55	5.42%

**Cachuma Operation & Maintenance Board**  
**Statement of Revenues and Expenditures**  
 Budget vs. Actuals July 2020 - June 2021

	Fisheries				Operations				TOTAL			
	Jul - Aug 20	Budget	\$ Over Budget	% of Budget	Jul - Aug 20	Budget	\$ Over Budget	% of Budget	Jul - Aug 20	Budget	\$ Over Budget	% of Budget
<b>4300 · MATERIALS/SUPPLIES - FISHERIES</b>												
4390 · Miscellaneous	65.59	7,000.00	-6,934.41	0.94%	0.00				65.59	7,000.00	-6,934.41	0.94%
<b>Total 4300 · MATERIALS/SUPPLIES - FISHERIES</b>	65.59	7,000.00	-6,934.41	0.94%	0.00				65.59	7,000.00	-6,934.41	0.94%
<b>4500 · OTHER EXPENSES - FISHERIES</b>												
4502 · Uniforms	19.61	3,500.00	-3,480.39	0.56%	0.00				19.61	3,500.00	-3,480.39	0.56%
<b>Total 4500 · OTHER EXPENSES - FISHERIES</b>	19.61	3,500.00	-3,480.39	0.56%	0.00				19.61	3,500.00	-3,480.39	0.56%
<b>4999 · GENERAL &amp; ADMINISTRATIVE</b>												
5000 · Director Fees	0.00				1,210.30	12,400.00	-11,189.70	9.76%	1,210.30	12,400.00	-11,189.70	9.76%
5001 · Director Mileage	0.00				0.00	600.00	-600.00	0.0%	0.00	600.00	-600.00	0.0%
5100 · Legal	0.00				6,973.85	75,000.00	-68,026.15	9.3%	6,973.85	75,000.00	-68,026.15	9.3%
5101 · Audit	0.00				965.25	22,750.00	-21,784.75	4.24%	965.25	22,750.00	-21,784.75	4.24%
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				3,481.04	33,326.00	-29,844.96	10.45%	3,481.04	33,326.00	-29,844.96	10.45%
5310 · Postage/Office Exp	0.00				965.48	5,000.00	-4,034.52	19.31%	965.48	5,000.00	-4,034.52	19.31%
5311 · Office Equip/Leases	0.00				809.21	9,700.00	-8,890.79	8.34%	809.21	9,700.00	-8,890.79	8.34%
5312 · Misc Admin Expenses	0.00				720.32	14,000.00	-13,279.68	5.15%	720.32	14,000.00	-13,279.68	5.15%
5313 · Communications	0.00				1,005.71	6,500.00	-5,494.29	15.47%	1,005.71	6,500.00	-5,494.29	15.47%
5314 · Utilities	0.00				1,801.66	9,737.00	-7,935.34	18.5%	1,801.66	9,737.00	-7,935.34	18.5%
5315 · Membership Dues	0.00				142.35	9,700.00	-9,557.65	1.47%	142.35	9,700.00	-9,557.65	1.47%
5316 · Admin Fixed Assets	0.00				1,455.70	3,000.00	-1,544.30	48.52%	1,455.70	3,000.00	-1,544.30	48.52%
5318 · Computer Consultant	0.00				2,533.96	16,500.00	-13,966.04	15.36%	2,533.96	16,500.00	-13,966.04	15.36%
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				0.00	2,000.00	-2,000.00	0.0%	0.00	2,000.00	-2,000.00	0.0%
5331 · Public Information	0.00				0.00	3,500.00	-3,500.00	0.0%	0.00	3,500.00	-3,500.00	0.0%
<b>Total 4999 · GENERAL &amp; ADMINISTRATIVE</b>	0.00				22,064.83	230,713.00	-208,648.17	9.56%	22,064.83	230,713.00	-208,648.17	9.56%
<b>5299 · ADMIN LABOR</b>	0.00				98,312.03	602,068.00	-503,755.97	16.33%	98,312.03	602,068.00	-503,755.97	16.33%
<b>5400 · GENERAL &amp; ADMIN - FISHERIES</b>												
5407 · Legal - FD	2,375.90	25,000.00	-22,624.10	9.5%	0.00				2,375.90	25,000.00	-22,624.10	9.5%
5410 · Postage / Office Supplies	532.88	4,000.00	-3,467.12	13.32%	0.00				532.88	4,000.00	-3,467.12	13.32%
5411 · Office Equipment / Leases	435.76	6,518.00	-6,082.24	6.69%	0.00				435.76	6,518.00	-6,082.24	6.69%
5412 · Misc. Admin Expense	282.87	7,500.00	-7,217.13	3.77%	0.00				282.87	7,500.00	-7,217.13	3.77%
5413 · Communications	541.55	4,455.00	-3,913.45	12.16%	0.00				541.55	4,455.00	-3,913.45	12.16%
5414 · Utilities	970.12	5,243.00	-4,272.88	18.5%	0.00				970.12	5,243.00	-4,272.88	18.5%
5415 · Membership Dues	181.65	6,200.00	-6,018.35	2.93%	0.00				181.65	6,200.00	-6,018.35	2.93%
5416 · Admin Fixed Assets	782.83	3,000.00	-2,217.17	26.09%	0.00				782.83	3,000.00	-2,217.17	26.09%
5418 · Computer Consultant	1,365.44	9,000.00	-7,634.56	15.17%	0.00				1,365.44	9,000.00	-7,634.56	15.17%
5425 · Employee Education/Subscription	0.00	2,500.00	-2,500.00	0.0%	0.00				0.00	2,500.00	-2,500.00	0.0%
5426 · Director Fees	599.20	6,700.00	-6,100.80	8.94%	0.00				599.20	6,700.00	-6,100.80	8.94%
5427 · Director Mileage	52.50	300.00	-247.50	17.5%	0.00				52.50	300.00	-247.50	17.5%
5430 · Travel	0.00	2,500.00	-2,500.00	0.0%	0.00				0.00	2,500.00	-2,500.00	0.0%
5431 · Public Information	0.00	1,500.00	-1,500.00	0.0%	0.00				0.00	1,500.00	-1,500.00	0.0%
5441 · Audit	519.75	12,250.00	-11,730.25	4.24%	0.00				519.75	12,250.00	-11,730.25	4.24%
5443 · Liab & Property Ins	1,874.41	17,745.00	-15,870.59	10.56%	0.00				1,874.41	17,745.00	-15,870.59	10.56%
<b>Total 5400 · GENERAL &amp; ADMIN - FISHERIES</b>	10,514.86	114,411.00	-103,896.14	9.19%	0.00				10,514.86	114,411.00	-103,896.14	9.19%
<b>5499 · ADMIN LABOR-FISHERIES</b>	33,712.76	247,776.00	-214,063.24	13.61%	0.00				33,712.76	247,776.00	-214,063.24	13.61%

**Cachuma Operation & Maintenance Board**  
**Statement of Revenues and Expenditures**  
 Budget vs. Actuals July 2020 - June 2021

	Fisheries				Operations				TOTAL			
	Jul - Aug 20	Budget	\$ Over Budget	% of Budget	Jul - Aug 20	Budget	\$ Over Budget	% of Budget	Jul - Aug 20	Budget	\$ Over Budget	% of Budget
5510 · Integrated Reg. Water Mgt Plan	0.00				0.00	5,000.00	-5,000.00	0.0%	0.00	5,000.00	-5,000.00	0.0%
<b>6000 · SPECIAL PROJECTS</b>												
6062 · SCADA	0.00				4,158.26	150,000.00	-145,841.74	2.77%	4,158.26	150,000.00	-145,841.74	2.77%
6090 · COMB Office Building	0.00				15,960.00	300,000.00	-284,040.00	5.32%	15,960.00	300,000.00	-284,040.00	5.32%
6096 · SCC Structure Rehabilitation	0.00				29,385.04	440,000.00	-410,614.96	6.68%	29,385.04	440,000.00	-410,614.96	6.68%
6097 · GIS and Mapping	0.00				0.00	10,000.00	-10,000.00	0.0%	0.00	10,000.00	-10,000.00	0.0%
6100 · Watershed Sanitary Survey	0.00				0.00	70,000.00	-70,000.00	0.0%	0.00	70,000.00	-70,000.00	0.0%
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%
6120 · Emergency Pumping Fac Project	0.00				62,585.99	300,000.00	-237,414.01	20.86%	62,585.99	300,000.00	-237,414.01	20.86%
6136 · SCC Isolation Valve Evaluation	0.00				0.00	190,000.00	-190,000.00	0.0%	0.00	190,000.00	-190,000.00	0.0%
6137 · SCC Lower Reach Lateral Structu	0.00				3,826.75	150,000.00	-146,173.25	2.55%	3,826.75	150,000.00	-146,173.25	2.55%
<b>Total 6000 · SPECIAL PROJECTS</b>	0.00				115,916.04	1,630,000.00	-1,514,083.96	7.11%	115,916.04	1,630,000.00	-1,514,083.96	7.11%
<b>6200 · FISHERIES ACTIVITIES</b>												
6201 · FMP Implementation	13,731.28	35,000.00	-21,268.72	39.23%	0.00				13,731.28	35,000.00	-21,268.72	39.23%
6202 · GIS and Mapping	0.00	10,000.00	-10,000.00	0.0%	0.00				0.00	10,000.00	-10,000.00	0.0%
6205 · USGS Stream Gauge Program	7,891.12	105,000.00	-97,108.88	7.52%	0.00				7,891.12	105,000.00	-97,108.88	7.52%
6207 · Oak Tree Restoration Program	42.22	25,000.00	-24,957.78	0.17%	0.00				42.22	25,000.00	-24,957.78	0.17%
<b>Total 6200 · FISHERIES ACTIVITIES</b>	21,664.62	175,000.00	-153,335.38	12.38%	0.00				21,664.62	175,000.00	-153,335.38	12.38%
<b>6300 · HABITAT ENHANCEMENT</b>												
6303 · Tributary Projects Support	0.00	10,000.00	-10,000.00	0.0%	0.00				0.00	10,000.00	-10,000.00	0.0%
6315 · Quiota Creek Crossing 8	31,769.37	0.00	31,769.37	100.0%	0.00				31,769.37	0.00	31,769.37	100.0%
<b>Total 6300 · HABITAT ENHANCEMENT</b>	31,769.37	10,000.00	21,769.37	317.69%	0.00				31,769.37	10,000.00	21,769.37	317.69%
7007 · INTEREST EXPENSE-EPPF	0.00				2,986.55				2,986.55	0.00	2,986.55	100.0%
<b>Total Expense</b>	<b>\$ 214,446.89</b>	<b>\$ 1,357,600.00</b>	<b>\$ (1,143,153.11)</b>	<b>15.8%</b>	<b>\$ 393,065.29</b>	<b>\$ 3,806,921.00</b>	<b>\$ (3,413,855.71)</b>	<b>10.33%</b>	<b>\$ 607,512.18</b>	<b>\$ 5,164,521.00</b>	<b>\$ (4,557,008.82)</b>	<b>11.76%</b>
<b>Net Surplus / Deficit</b>	<b>\$ 67,295.11</b>	<b>\$ -</b>	<b>\$ 67,295.11</b>	<b>100.0%</b>	<b>\$ 388,845.71</b>	<b>\$ -</b>	<b>\$ 388,845.71</b>	<b>100.0%</b>	<b>\$ 456,140.82</b>	<b>\$ -</b>	<b>\$ 456,140.82</b>	<b>100.0%</b>

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# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	September 28, 2020
Submitted by:	Janet Gingras

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**SUBJECT:** Investment Report – August 31, 2020

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### **RECOMMENDATION**

The Board of Directors receive and file the Cachuma Operation and Maintenance Board Investment Report as of August 31, 2020.

### **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 monthly effective yield rate, as of August 2020, is reported at 0.784%.

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

TABLE 1			
Unrestricted Reserve Funds		Date	Principal
Local Agency Investment Fund (LAIF)			
Previous Balance		07/31/2020	\$ 1,390,654.59
(+) Deposits/Credits			-
(-) Checks/Withdrawals			-
Statement Balance		08/31/2020	\$ 1,390,654.59

#### Restricted Cash

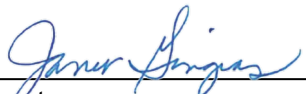
The Cachuma Project Warren Act Trust Fund (Trust Fund) and Cachuma Project Master Contract Renewal Fund (Renewal Fund) are two separate funds that have been established through contracts with the U.S. Bureau of Reclamation (Reclamation). The Trust Fund and the Renewal Fund require annual and five-year 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		Date	Principal
American Riviera Bank Renewal Account			
	Previous Balance	07/31/2020	\$ 10,215.61
	(+) Deposits/Credits		-
	(-) Checks/Withdrawals		-
	Statement Balance	08/31/2020	\$ 10,215.61
American Riviera Bank Warren Act Trust Fund			
	Previous Balance	07/31/2020	\$ 134,545.72
	(+) Deposits/Credits		-
	(-) Checks/Withdrawals		-
	Statement Balance	08/31/2020	\$ 134,545.72

**STATEMENT**

The above statement of investment activity for the month of August, 2020, 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 August 31, 2020

Date	Num	Name	Memo	Amount
<b>1050 - General Fund</b>				
08/06/2020	27852	Aspect Engineering Group	SCADA Upgrade - PLC 8	-1,495.00
08/06/2020	27853	Association of Ca Water Agencies/JPIA	September Health Benefits Premium	-19,725.27
08/06/2020	27854	Carpinteria Valley Lumber Company	Supplies (Ops)	-35.05
08/06/2020	27855	City of Santa-Barbara	Trash / Recycling July 2020	-285.46
08/06/2020	27856	Cori Hayman	Director Meeting Fees July 2020	-300.00
08/06/2020	27857	County of Santa Barbara Water Agency Dept	IRWM Share of Cost 1/1/20-6/30/20	-1,264.43
08/06/2020	27858	Cox Communications Santa Barbara	Business Internet August 2020	-140.00
08/06/2020	27859	Culligan of Sylmar	RO Rental August 2020	-29.95
08/06/2020	27860	Cushman Contracting Corp.	EPFP Pumping System - Pay Req #75	-3,500.00
08/06/2020	27861	VOID	Void	0.00
08/06/2020	27862	VOID	Void	0.00
08/06/2020	27863	Farwest Corrosion Control Co.	Annual Cathodic Protection Survey	-2,985.00
08/06/2020	27864	Federal Express	Shipping (Ops)	-442.84
08/06/2020	27865	Frontier Communications	Phone Service - Alarm, Fax, Modem, Board Room	-193.90
08/06/2020	27866	Frontier Communications	Phone Service - North Portal	-62.09
08/06/2020	27867	Harrison Hardware	Supplies (Fisheries)	-12.30
08/06/2020	27868	Home Depot Credit Services	Supplies (Ops)	-430.79
08/06/2020	27869	Ian's Tire & Auto Repair	2015 Ford F-150 - Tire Repair (Fisheries)	-25.00
08/06/2020	27870	J&C Services	Office Cleaning Service - Weekly 6/19/20-7/10/20	-600.00
08/06/2020	27871	Kristen Sneddon	Director Meeting Fees July 2020	-300.00
08/06/2020	27872	Lauren W. Hanson	Director Meeting Fees July 2020	-300.00
08/06/2020	27873	MarBorg Industries	Portable Facilities - Outlying Stations	-387.92
08/06/2020	27874	O'Reilly Automotive, Inc.	Automotive Supplies (Ops & Fisheries)	-66.82
08/06/2020	27875	Paychex, Inc. (Payroll)	Payroll & Payroll Tax Services 7/10/20 & 7/24/20	-197.25
08/06/2020	27876	Polly Holcombe	Director Meeting Fees July 2020	-384.00
08/06/2020	27877	Powell Garage	2018 Ford F-150 Oil Change (Fisheries)	-92.10
08/06/2020	27878	SHRM	SHRM Membership 10/1/2020-9/30/2021	-219.00
08/06/2020	27879	Southern California Edison	Electricity - Main & Outlying Stations	-1,539.65
08/06/2020	27880	VOID	Void	0.00
08/06/2020	27881	Tri-County Locksmiths, Inc	Duplicate keys (Ops)	-12.93
08/06/2020	27882	Underground Service Alert of So. Calif.	Ticket Charges & Database Fee	-146.95
08/06/2020	27883	Wells Fargo Vendor Fin Serv	Copier Leases - Kyocera Taskalpas 3051ci & 6052ci	-411.08
08/06/2020	27884	Wright Express Fleet Services	Fleet Fuel July 2020	-2,449.42
08/06/2020	27885	YSI Inc./Xylem	ProSolo Handheld Probe Assembly & Accessories (Fisheries)	-2,221.03
08/06/2020	27886	Zac Gonzalez Landscaping & Tree Care	Landscape Maintenance July 2020	-480.00
08/06/2020	27887	Eurofins Eaton Analytical, LLC	Lake Cachuma Water Quality Sampling	-700.00
08/06/2020	27888	Staples Business Credit	Office Supplies (Ops & Fisheries)	-611.71
08/18/2020	27889	All Around Landscape Supply	Supplies (Ops)	-184.09
08/18/2020	27890	Aqua-Flo Supply	Supplies (Ops)	-428.91
08/18/2020	27891	Bend Genetics, LLC	Lake Cachuma Water Quality Testing	-743.00
08/18/2020	27892	Carpinteria Valley Water Dist.	FY 2017-18 & 2018-19 Return of Funds re: 2000 BiOp and Oak Tree Mitigation Activities	-15,291.98
08/18/2020	27893	Cashier, DPR	Department of Pesticides - Certification	-280.00
08/18/2020	27894	City of Santa Barbara-Finance Dept.	FY 2017-18 & 2018-19 Return of Funds re: 2000 BiOp and Oak Tree Mitigation Activities	-44,973.46
08/18/2020	27895	CMRS-FP	Deposit of Funds to Postage Account	-300.00
08/18/2020	27896	Coastal Copy, LP	Copier Maintenance - Kyocera Taskalpas 3051ci & 6052ci	-286.13
08/18/2020	27897	County of Santa--Barbara	Waste Dumping Fee (Ops)	-28.00
08/18/2020	27898	ECHO Communications	Message Service August 2020	-69.02
08/18/2020	27899	Eurofins Eaton Analytical, LLC	Lake Cachuma Water Quality Sampling	-1,700.00
08/18/2020	27900	Goleta Water District	FY 2017-18 & 2018-19 Return of Funds re: 2000 BiOp and Oak Tree Mitigation Activities	-50,664.08
08/18/2020	27901	Impulse Advanced Communications	Phone Service - Main Office	-451.68
08/18/2020	27902	Montecito Water Dist.	FY 2017-18 & 2018-19 Return of Funds re: 2000 BiOp and Oak Tree Mitigation Activities	-14,414.57
08/18/2020	27903	O'Reilly Automotive, Inc.	Automotive Supplies (Ops)	-134.95
08/18/2020	27904	Peter Lapidus Construction, Inc.	QC8 South Side Erosion Control & Reforestation - Construction Services	-41,530.00
08/18/2020	27905	Powell Garage	2013 International Water Truck - Oil Change & Service (Fisheries)	-416.02
08/18/2020	27906	Premiere Global Services	Conference Calls July 2020	-26.62
08/18/2020	27907	Southern California Edison	Electricity - Outlying Stations	-34.14
08/18/2020	27908	Sparkletts	Operations Safety	-55.83
08/18/2020	27909	Staples Credit Plan	Office Supplies (Ops & Fisheries)	-186.75
08/18/2020	27910	Turenchalk Network Services, Inc.	Microsoft Windows & Backup Software Licenses for DC1 server	-1,237.00
08/18/2020	27911	Turenchalk Network Services, Inc.	Network Support	-3,898.40
08/18/2020	27912	Verizon Wireless	Cellular Communication Devices July (Ops)	-796.17
08/25/2020	082520A	American Riviera Bank (ARB)	EPFP Loan Payment 1 of 2	-28,123.75
08/25/2020	082520B	American Riviera Bank (ARB)	EPFP Loan Payment 2 of 2	-10,354.21
08/26/2020	27913	Association of Ca Water Agencies/JPIA	Property Program Renewal 7/1/20-6/30/21	-4,452.45
08/26/2020	27914	Carpinteria Valley Water Dist.	FY 2019-20 Return of Funds re: 2000 BiOp and Oak Tree Mitigation Activities	-6,688.92
08/26/2020	27915	City of Santa Barbara-Finance Dept.	FY 2019-20 Return of Funds re: 2000 BiOp and Oak Tree Mitigation Activities	-19,672.01
08/26/2020	27916	Cushman Contracting Corp.	EPFP Pumping System - Pay Req #76	-3,500.00
08/26/2020	27917	Eurofins Eaton Analytical, LLC	Lake Cachuma Water Quality Sampling	-1,000.00
08/26/2020	27918	Flowers & Associates, Inc.	South Coast Conduit Lower Reach Lateral Structures - Engineering Services	-3,826.75
08/26/2020	27919	Goleta Water District	FY 2019-20 Return of Funds re: 2000 BiOp and Oak Tree Mitigation Activities	-22,161.17

Cachuma Operation & Maintenance Board

**Paid Claims**

As of August 31, 2020

<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
08/26/2020	27920	Instrument & Valve Services Company	Quarterly Calibration of 5 Rosemount Meters	-1,918.36
08/26/2020	27921	MarBorg Industries	Portable Facilities - Outlying Stations	-387.92
08/26/2020	27922	Montecito Water Dist.	FY 2019-20 Return of Funds re: 2000 BiOp and Oak Tree Mitigation Activities	-6,305.13
08/26/2020	27923	Onset Computer Corporation	Water Temperature & Dissolved Oxygen Loggers & Probes (Fisheries)	-1,247.45
08/26/2020	27924	PG&E	Electricity - North Portal & Tecolote Tunnel	-397.82
08/26/2020	27925	Wells Fargo Vendor Fin Serv	Copier Leases - Kyocera Taskalfas 3051ci & 6052ci	-411.08
Total 1050 - General Fund				<u>-330,624.76</u>
<b>TOTAL</b>				<b><u>-330,624.76</u></b>

**APPROVALS**

Director \_\_\_\_\_

Director \_\_\_\_\_

Director \_\_\_\_\_

# CACHUMA OPERATION & MAINTENANCE BOARD

## Lake Cachuma Oak Tree Committee Meeting

by Teleconference Call ONLY  
Teleconference Call-in Number: 1 (888) 899-7789  
Passcode: 804443#

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Thursday, September 3, 2020

3:30 PM

### AGENDA

Chair: Director Hayman  
Member: Director Sneddon

1. Call to Order
2. Public Comment (*Public may address the Committee on any subject matter not on the agenda and within the Committee's jurisdiction*)
3. Lake Cachuma Oak Tree Restoration Program Annual Update - Fiscal Year 2020-21 (*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.]

# CACHUMA OPERATION & MAINTENANCE BOARD

## Operations Committee Meeting

by Teleconference Call ONLY  
Teleconference Call-in Number: 1 (888) 899-7789  
Passcode: 804443#

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Thursday, September 17, 2020  
3:30 pm

### AGENDA

Chair: Director Sneddon  
Member: Director Holcombe

1. Call to Order
2. Public Comment (*Public may address the Committee on any subject matter not on the agenda and within the Committee's jurisdiction*)
3. Infrastructure Improvement Projects (*for information and possible recommendation*)
  - a. Secured Pipeline Engineering Designs - Makai Ocean Engineering, Inc.
  - b. SCADA System Upgrades Proposal - Aspect Engineering Group
4. Engineering / Operations Projects Update (*for information and possible recommendation*)
  - AWIA Risk and Resiliency - Emergency Action Plan
  - Water Quality and Sediment Management Study
  - AVAR / BO Structure Rehabilitation Project
  - Annual Inspections / Reporting
5. 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.

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# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	September 28, 2020
Submitted by:	Joel Degner
Approved by:	Janet Gingras

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**SUBJECT:** Lake Cachuma Secured Pipeline Engineering Design Support

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**RECOMMENDATION:**

The Board of Directors receive information on the Lake Cachuma Secured Pipeline Engineering Design Support contract adjustment with Makai Ocean Engineering, Inc.

**SUMMARY:**

In October 2019, Makai Ocean Engineering, Inc. was selected and approved to perform the design specifications for the secured pipeline project at Lake Cachuma with a contract amount of \$173,927. Regular progress meetings between internal COMB staff and the consultant have been occurring since that time. Makai has recently provided COMB with the draft secured pipeline design (75%) for the Lake Cachuma Conveyance Operations which includes:

- Maximum lake elevation that the secured pipeline can be economically installed in Lake Cachuma
- Evaluation of staging site suitability for different water level deployment scenarios
- Determine sufficiency of existing intake box to support the loads of the secured pipeline
- Design of the gravity intake including potential modifications for installation of a land-based pump system in the future
- Identify additional hydraulic or bathymetric surveys that may be needed
- Answer technical queries in support of the client's environmental permitting activities
- Recommend specific sediment removal sites

In addition to the original scope of work requested, staff considered an adjustment to the current contract in the amount of \$10,800 for the consultants' professional evaluation of extreme conditions at the lake including pipe exposure for long periods of drought, pipe ballasting structures withstanding extreme inflows under extraordinary conditions, and changes to design related to an change in elevation for the intake structure. In addition, an extended time for further internal technical review and comment period was considered. Staff has submitted the designs to the Member Agencies technical staff for review and comment prior to the commencement of the environmental processes.

**FISCAL IMPACTS:**

The budget for this line item for Fiscal Year 2020-21 is \$300,000 which includes \$42,000 for storage costs with Cushman Contracting Corporation (\$3,500/month) to maintain the key components of the EPFP. The approval of the adjustment with Makai Ocean Engineering, Inc. for the secured pipeline design in the amount of \$10,800 is within the approved budget and within the authority of the General Manager per the Board approved procurement policy.

**COMMITTEE STATUS:**

The Operations Committee received information on the Lake Cachuma Secured Pipeline Engineering Design Support contract adjustment with Makai Ocean Engineering, Inc. and supports forwarding the information to the Board per provisions of the procurement policy.

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# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	September 28, 2020
Submitted by:	Joel Degner
Approved by:	Janet Gingras

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**SUBJECT:**     **Supervisory Control and Data Acquisition System (SCADA) Programmable Logic Controllers Replacement**

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**RECOMMENDATION:**

The Board of Directors review the staff report, approve the proposed expenditures for SCADA system upgrades and authorize the General Manager to execute a Professional Services Agreement contract with Aspect Engineering Group, Inc. in an amount not to exceed \$160,362.

**SUMMARY:**

The “Supervisory Control and Data Acquisition” system (SCADA) serves three objectives:

- Collects and enables the retrieval of historical data at COMB Offices or via remote computer. Information includes flows, reservoir elevations, alarms, communication, turbidity, pH, temperature, and valve positions.
- Provides phone alerts to COMB Operations staff to enable remote corrective action 24/7.
- Increases the efficiency of Operations staff by avoiding onsite corrective action and enhances system reliability.
- Installation of the COMB Supervisory Control and Data



Acquisition of the SCADA system began in 2003. Budgetary constraints have deferred upgrades over the ensuing 10-years. Substantial information is generated through this system that is used internally by COMB and requested externally by the Member Agencies.

Most of the programmable logic controllers (PLC) COMB owns are obsolete and no longer available. The PLC’s were previously installed using various versions of software and technical contractors and are very difficult and time consuming to re-program in the event of a failure or simple program modification. If a failure occurs and a compatible PLC and software cannot be located, the only option would be to upgrade the entire system to get the system back online. COMB’s SCADA system consist of nine PLCs. In FY 2019-20, two PLC’s – PLC 7 (Lauro Control Station) and PLC 8 (Cater) were successfully replaced by Aspect Engineering Group, Inc. Six active legacy PLCs remain.

COMB staff has developed a SCADA Master Plan as part of the America’s Water Infrastructure Act Emergency Response Plan. As part of the plan, the six remaining active legacy PLC’s would be upgraded over this fiscal year and next. The master plan recommends PLC 3 (GATO), PLC 4 (Sheffield), PLC 6 (Carpinteria Control Station), PLC 9 (Boundary), and PLC 2 (North Portal) for Fiscal Year 2020-21. The following fiscal year, the remaining PLC 5 (Ortega) would be replaced along with the main SCADA system terminals.

Aspect Engineering successfully replaced PLC 7 and PLC 8 on-time and under budget in Fiscal Year 2019-20. Aspect is currently utilized by Goleta Water District (GWD) and Carpinteria Valley Water District (CVWD) for SCADA services.

PLC 3 at Glen Anne Turnout would be replaced simultaneously with GWD's PLC and PLC 6 at Carpinteria Control Station would be replaced simultaneously with CVWD PLC. Aspect provided a cost proposal for the six remaining active PLC provided in Table 1.

**Table 1. PLC Replacement Costs**

Project Costs	Total Cost
<b>Task</b>	
Cost for PLC2	\$27,881
Cost for PLC3	\$22,183
Cost for PLC4	\$23,585
Cost for PLC5	\$29,283
Cost for PLC6	\$30,527
Cost for PLC9	\$11,903
<b>Total Project Costs</b>	<b>\$145,362</b>
<i>As-needed Support Services</i>	<i>\$15,000</i>
<b>Total Proposed Contract Cost</b>	<b>\$160,362</b>

COMB plans to include a contingency budget of \$15,000 for additional SCADA support services in the event of an unplanned interruption. Additional support is important to maintain the SCADA system if a disruption in the system occurs. Attached is non-competitive bid justification for Aspect Engineering Group Inc. which describes the benefits of continuing to utilize Aspect Engineering Group, Inc. for PLC replacements.

**FISCAL IMPACTS:**

COMB plans to contract with Aspect Engineering Group, Inc. for the replacement of six legacy PLCs and for additional as-needed support services. The total cost of the contract would be \$160,362. However, only up to five PLCs would likely be completed in FY 2020-21. With the additional as-needed support, approximately \$131,079 would be expended in Fiscal Year 2020-21. COMB's budget for Fiscal Year 2020-21 is \$150,000. The proposed budget for SCADA in Fiscal Year 2021-22 would complete the replacement of PLC 5 (~\$30,000) and installation of new SCADA terminals (~\$120,000) according to the SCADA Master Plan.

Fiscal Year	Projects	Estimated Cost	IIP Budget
Fiscal Year 2020-21	PLC 2, 3, 4, 6, 9 and \$15K as-needed support	\$131,079	\$150,000
Fiscal Year 2021-22	PLC 5 and SCADA terminal replacement	\$150,000	\$150,000
<b>Total Proposed Contract Costs / Budget</b>		<b>\$281,079</b>	<b>\$300,000</b>

\* COMB also plans to also replace the main SCADA terminals in 2021-22 which would be performed under a separate contract.

**ENVIRONMENTAL COMPLIANCE:**

There are no environmental compliance measures required for SCADA upgrade activities.

**COMMITTEE STATUS:**

The Operations Committee reviewed the staff report and forwards the proposed cost for SCADA systems upgrade to the Board with a recommendation to approve and authorize the General Manager to execute a Professional Services Agreement contract with Aspect Engineering Group, Inc. in an amount not to exceed \$160,362.



**LIST OF EXHIBITS:**

1. Non-Competitive Bid Justification - Aspect Engineering Group, Inc.

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**Supervisory Control and Data Acquisition System (SCADA)  
Programmable Logic Controllers Upgrade Project**

**Non-Competitively Bid (NCB) Contract Justification**

**To:** COMB Board of Directors

**From:** Operations / Engineering Division

**Date:** September 28, 2020

**Contract:** PLC Upgrade Project – Aspect Engineering Group, Inc.

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**Complete responses must be provided for all of the following questions:**

***A. Why is the submission of a NCB necessary and what are the determining factors?***

Acquisition of the SCADA system began in 2003. Budgetary constraints have deferred upgrades over the ensuing 15 years. COMB began replacement of the nine PLCs last fiscal year. COMB staff has developed a SCADA Master Plan as part of the America's Water Infrastructure Act Emergency Response Plan. As part of the plan, the remaining active legacy PLC's would be upgraded in this fiscal year (2020-21) and the following fiscal year (2021-22). The master plan recommends PLC 3 (GATO), PLC 4 (Sheffield), PLC 6 (Carpinteria Control Station), PLC 9 (Boundary), and PLC 2 (North Portal) for Fiscal Year 2020-21. The following fiscal year, the remaining PLC 5 (Ortega) and would be replaced along with the main SCADA system terminals.

The benefits of hiring Aspect Engineering Group to upgrade the remaining PLCs:

- Aspect was successful in performing upgrades of PLC 7 and PLC 8. PLC 7 was the test for the PLC upgrade project and once successful, work was planned to continue on remaining PLCs.
- Aspect has knowledge of our hardware and software and was able to provide an itemize quote for each PLC. The contractor's proposal for individual PLC's was less than the previous quote for PLC 7.
- Aspect is engaged with two of our Member Agencies (Goleta Water District and Carpinteria Valley Water District). Utilizing Aspect will ensure consistency with GWD (PLC 3) and CVWD (PLC 6 and 9) SCADA systems.

**B. What are the consequences of not having this NCB approved?**

Most of the programmable logic controllers (PLC) COMB owns are obsolete and no longer available. The PLC's were previously installed using various versions of software and technical contractors and are very difficult and time consuming to re-program in the event of a failure or simple program modification. If a failure occurs and a compatible PLC and software cannot be located, the only option would be to upgrade the entire system to get the system back online. This could result in unplanned outages of COMB's SCADA system for extended periods. COMB needs a reliable SCADA contractor to troubleshoot SCADA issues.

**C. How will COMB ensure adequate planning to prevent submittal of NCB's for goods or services that should have been competitively bid?**

COMB will continue to bid work according to its procurement policy. In this case, COMB previously received competitive proposals for PLC 7 and selected Aspect Engineering Group. Aspect Engineering Group successfully performed the PLC 7 and PLC 8 upgrade and has provided a quote for the remaining PLCs which is less than PLC 7 on a per unit basis.

**RESTRICTED CONTRACTOR JUSTIFICATION (NON COMPETITIVE BID)**

**A. PRICE ANALYSIS**

**1. How was the price offered determined to be fair and reasonable?**

COMB compared the proposed PLC costs with the estimates of PLC 7 replacement and found them to be less than the proposed costs of PLC 7. PLC 2, 5, and 6 are more complicated than PLC 7 and are provided at a lower proposed cost.

**Table 1. PLC 7 and PLC 8 Proposal and Upgrade Costs**

<b>Project Costs</b>	<b>Total Cost</b>
Proposal for PLC 7	\$35,000
Actual Costs for PLC 7	\$27,786
Proposal for PLC 8	\$15,747
Actual Costs for PLC 8	\$ 6,505

**Table 2. Aspect Proposal Costs for Remaining PLC Upgrades**

<b>Project Costs</b>	<b>Total Cost</b>
Cost for PLC2	\$27,881
Cost for PLC3	\$22,183
Cost for PLC4	\$23,585
Cost for PLC5	\$29,283
Cost for PLC6	\$30,527
Cost for PLC9	\$11,903

**2. Describe any cost savings realized or costs avoided by acquiring the goods/services from this contractor.**

This contractor has performed PLC 7 and PLC 8 on-time and under budget – saving over \$15,000 on proposed costs. Aspect provided each PLC proposal separately. With a contract composed of combined services, economies of scale are achieved with efficiencies and project management. In addition, CVWD and GWD also contract with Aspect for SCADA work and by utilizing the same contractor, there will be cost savings associated with the contractor simultaneously upgrading CVWD and GWD co-located PLCs.

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# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	September 28 2020
Submitted by:	Tim Robinson
Approved by:	Janet Gingras

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**SUBJECT:** Lake Cachuma Oak Tree Restoration Program – Fiscal Year 2020-21

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**RECOMMENDATION:**

The Board of Directors receive information on the Lake Cachuma Oak Tree Restoration Program (Program) and approve the proposed program of work for Fiscal Year 2020-21.

**SUMMARY:**

The Lake Cachuma Oak Tree Restoration Program 2019 Annual Report contains the results of the 2019 annual tree inventory of all planted mitigation oak trees since the Program started in 2005 (which includes 11 planting years) and the Fiscal Year 2019-2020 financial and water usage details. The results of the 2015 Lakeshore Survey set the mitigation number for the Lake Cachuma Oak Tree Restoration Program at 4,721 alive and self-sustaining trees in 2025 (20 years into the Program). This number included the established mitigation ratio of two to one (2:1) (alive to dead plus at-risk trees in 2015) and an 18% mortality rate that was determined from the 2015 and 2016 annual survey reports. As of the end of this year's inventory, 5,025 oak trees have been planted (and 55 trees have been adopted for a total of 5,080 trees) and 4,092 are alive which is a survival rate of 80.55%. The number of mitigation trees still to be planted is **629** trees (mitigation number minus total alive trees). The cost of the program during Fiscal Year 2019-20 was \$140,775 which included consultant costs, staff time plus burden, materials and supplies for the planting of trees, and operation and maintenance of the entire program of work. Water usage for irrigation during the year was 1.33 acre-feet.

The COMB Lake Cachuma Oak Tree Committee reviewed the Report on 9/3/20 and recommended that 300 new trees be planted for the current fiscal year and 100 dead trees be replaced at the beginning of the winter when favorable planting conditions exist. The cost to implement the Committees' recommendation is included within the COMB Fiscal Year 2020-21 adopted operating budget.

**FISCAL IMPACT:**

The current Fiscal Year 2020-21 COMB Operating Budget includes \$25,000 for the Oak Tree Restoration Program which provides for consultant work and materials and supplies.

**COMMITTEE STATUS:**

The Lake Cachuma Oak Tree Committee reviewed the Draft 2019 Annual Lake Cachuma Oak Tree Program Report with Fiscal Year 2019-20 financials and water use information, and forwards to the Board a recommendation to approve the program of work outlined for Fiscal Year 2020-21.

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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.”*

September 28, 2020

## **General Manager Report**

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

### Administration

- **Cachuma Project Water Rates Administration**

The Cachuma Project Water Rate schedules for Water Year (WY) 2021 have been received from Reclamation. The water rates are calculated based on projected reimbursable annual operation and maintenance (O&M) costs and divided by projected water deliveries for the year. Each year, the annual O&M costs for the Cachuma Project are estimated by the Fresno Area Office and provided to the rate-setting branch within the Financial Management division of Reclamation (Sacramento). Water delivery projections are based on the delivery schedule that is supplied by the Member Agencies to the Santa Barbara County Water Agency and submitted to Reclamation.

For WY 2021 water rates, a deficit was recognized on the 2019 Cachuma Project financial statement for operations but was internally offset into a surplus due to revenues collected for prior year deficit repayments. COMB staff is seeking information from Reclamation on water year 2019 variances related to cost recovery to substantiate the difference between budgeted and actual expenditures. In addition, staff has asked for confirmation of expenditures related to the extraordinary O & M revenues received by Reclamation to date.

- **Comprehensive Annual Financial Audit Process – Fiscal Year 2019-20**

Annually, in compliance with the Governmental Accounting Standards Board (GASB), COMB issues an independently audited comprehensive financial report to communicate detailed information about its financial condition and operating results over the past fiscal year.

For fiscal year ending June 2020, COMB has engaged Bartlett, Pringle & Wolf, LLP (BPW) to perform its annual comprehensive financial audit. The audit is comprised of a review of the statement of net position as of June 30, 2020, related statements of revenue, expenses and changes in net position, cash flows for the year then ended, and the related notes to the financial statements. In addition, BPW will perform a single audit related to the California Department of Fish and Wildlife grant funding received for the Quiota Creek fish passage improvement project at crossing eight and FEMA funds received for the Sycamore Canyon Slope Stabilization project. The single audit will be conducted in accordance with audit requirements imposed by the Single Audit Act and Subpart F of Title 2, U.S. Code of Federal Regulations (CFR) Part 200, Uniform Administrative Requirements, cost principles, and audit requirements for federal awards.

BPW will present the COMB Board with audited financial statements in accordance with Government Auditing Standards issued by the Comptroller General of the United States and the State Controller's Minimum Audit Requirements for California Special Districts. BPW will express an opinion about whether the financial statements fairly represent the financial position of COMB. BPW will also evaluate the adequacy of the internal control system, the electronic data processing and, where weaknesses are noted, make appropriate recommendations for improvements. BPW will further submit a written management letter which communicates suggested improvements in the District's financial operations, and any deficiencies in internal controls that need to be addressed by COMB.

**Comprehensive Annual Financial Audit Process – Fiscal Year 2019-20 (cont’d)**

The Government Accounting Standards Board (GASB) Statement No. 75, *Accounting and Financial Reporting for Post-employment Benefits Other Than Pensions*, adopted in 2015, replaced the requirements of GASB Statement No. 45, *Accounting and Financial Reporting by Employers for Post-employment Benefits Other Than Pensions*. The primary objective of GASB 75 is to improve accounting, transparency and financial reporting by state and local governments for postemployment benefits other than pensions. The provisions contained in GASB 75 were implemented by COMB with fiscal year ending June 30, 2018.

GASB 75 requires that a valuation be performed on an annual basis and allows for a roll-forward calculation every other year by “rolling forward” the Total OPEB Liability from the previous actuarial study. COMB has engaged Total Compensation Systems, Inc. (TCS) to perform the annual valuation with a measurement date of June 30, 2020. TCS has provided staff with a draft actuarial study. BPW will present the results of the annual valuation to the Board as part of their CAFR audit presentation.

The schedule below outlines the Fiscal Year 2019-20 audit process calendar.

<b>Cachuma Operation &amp; Maintenance Board</b>							
<i>Preliminary CAFR Audit Schedule</i>							
Fiscal Year 2019-20							
Deliverables	Jun	Jul	Aug	Sept	Oct	Nov	Dec
<i>Preliminary Fieldwork and Internal Control Testing Performed by BPW</i>	X						
<i>Preliminary Fieldwork for Single Audit Related to Quiota Creek Crossing No. 8 Federal Grant Funding</i>	X						
<i>Year End Close Process and Preliminary Financial Statements Completed by COMB</i>		X	X				
<i>Year End Fieldwork Performed by BPW</i>			X	X			
<i>Audit Trial Balance Provided to COMB</i>					X		
<i>Management Discussion &amp; Analysis (MD&amp;A) and CAFR Introductory and Statistical Section Prepared by COMB</i>					X		
<i>Draft CAFR Provided to COMB</i>						X	
<i>Presentation to COMB Administrative Committee</i>							X
<i>Presentation to COMB Board of Directors</i>							X

Virtual Meetings

- **Santa Barbara County Hazard Mitigation Plan Meeting**

Staff attended a virtual meeting held by the Santa Barbara County Office of Emergency Services to discuss the update process for the Santa Barbara County 2017 Hazard Mitigation Plan (HMP) and annexes. An overview of the process was presented by County staff through a power-point presentation. The current HMP is a multi-jurisdictional plan utilizing an initial plan created by Santa Barbara County OEM and contains annexes provided by each jurisdiction in the HMP including eight cities and four special districts. The process is led by County OEM using a mitigation advisory committee with representatives from each jurisdiction and CalOES. COMB is currently in the process of updating our annex in preparation of the County OEM update. Keeping the HMP current ensures that COMB remains eligible for Hazard Mitigation Assistance Grants (HMGP, FMA, BRIC, PDM, etc.) for projects listed within the annex.

Engineering / Operations

- **USBR Reservoir Inspections**

Reclamation has conducted annual safety and security inspections for the South Coast regulating reservoirs. Per Reclamation's directive and standards, Reclamation performs the annual site inspections for each reservoir consisting of a general condition assessment on pertinent features of the dam using a checklist developed specifically for each dam. The content of the inspection encompasses structural integrity, operational features, public safety, follow-up of past operation and maintenance, previous Safety of Dams (SOD) recommendations, and review of documentation related to exercising and testing of gates, valves, and auxiliary generators since the last inspection. These inspections are only required to be performed during the years when a Periodic Facility Review (PFR) or Comprehensive Facility Review (CFR) is not performed.

In addition, Reclamation performed an annual security equipment inspection which consists of ensuring all security equipment is operating properly. This inspection is normally conducted by the Area Office Security Coordinator (AOSC) as an oversight function but can be accomplished by others as directed by the Area Manager. These inspections will be documented and submitted for concurrence by the facility manager and area manager, who in turn, will ensure any issues affecting the operation or stability of the security systems are properly scheduled for mitigation. The date and findings of the security equipment inspection, as well as any corrective actions, must be reported within the area office's annual security report.

Respectfully Submitted,

*Janet Gingras*  
General Manager

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# CACHUMA OPERATION AND MAINTENANCE BOARD

## MEMORANDUM

**DATE:** September 28, 2020  
**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

Record temperatures occurred throughout the State and in Santa Barbara County on September 6<sup>th</sup>, 2020. For the State of California, 2020 is already the worst fire season on record, with the most burned area recorded. There are several months currently left in the fire season. However, there are currently no active, large wildfires in the Santa Ynez River Watershed. As temperatures cool in the fall, the thermocline at Lake Cachuma typically moves deeper down the water column in the lake. COMB staff are closely monitoring lake conditions as the thermocline deepens as its location is an important consideration for water quality for the treatment plants on the South Coast.

### LAKE ELEVATION / DOWNSTREAM RELEASE UPDATE

Lake Cachuma is currently at 70.8% capacity (732.55' as of 9/23). The U.S. Bureau of Reclamation (Reclamation) began releasing water for the Santa Ynez River Water Conservation District (SYRWCD) on August 31<sup>st</sup>. The initial release rate was approximately 150 cubic feet per second. Flows reached the Santa Ynez River Narrows in 12 days. Based on the preliminary measurements, approximately 5,000 acre-feet has been released since August 31<sup>st</sup> with 750 acre-feet flowing past the Santa Ynez River Narrows (as of September 22, 2020). Reclamation is slowly reducing the flows to reach an optimal equilibrium for groundwater recharge based on requests from Santa Ynez River Water Conservation District. The Santa Ynez River Water Conservation District has previously indicated they plan to release water through November. If the current flow rate is stabilized through November, a total of approximately 12,000 acre-feet could be released. Future adjustments of flow are likely, however, based on river conditions. Figure 1 provides the provisional data recorded at Bradbury Dam, at the Santa Ynez River at Solvang (11128500) and at the Santa Ynez River at the Narrows near Lompoc (11133000) for the downstream release.

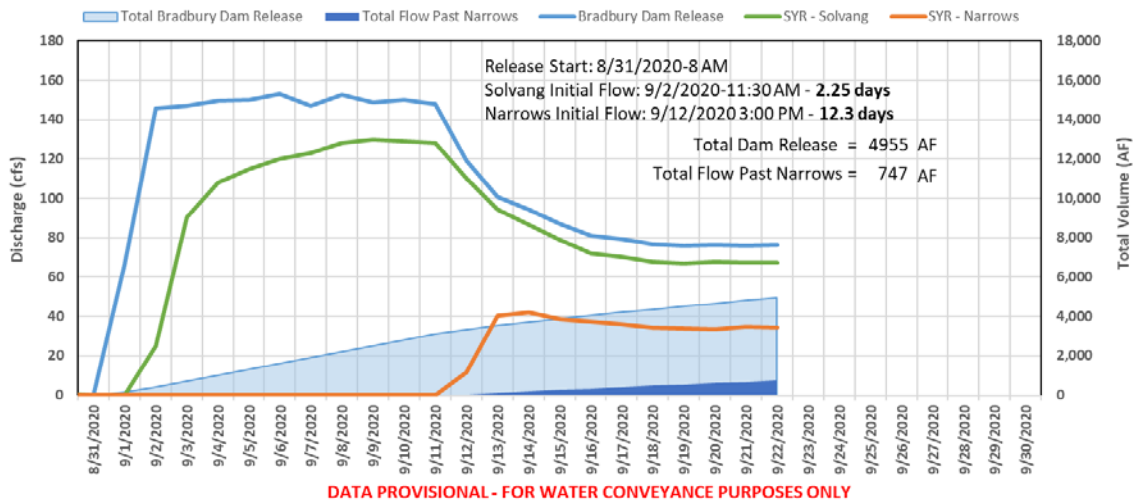
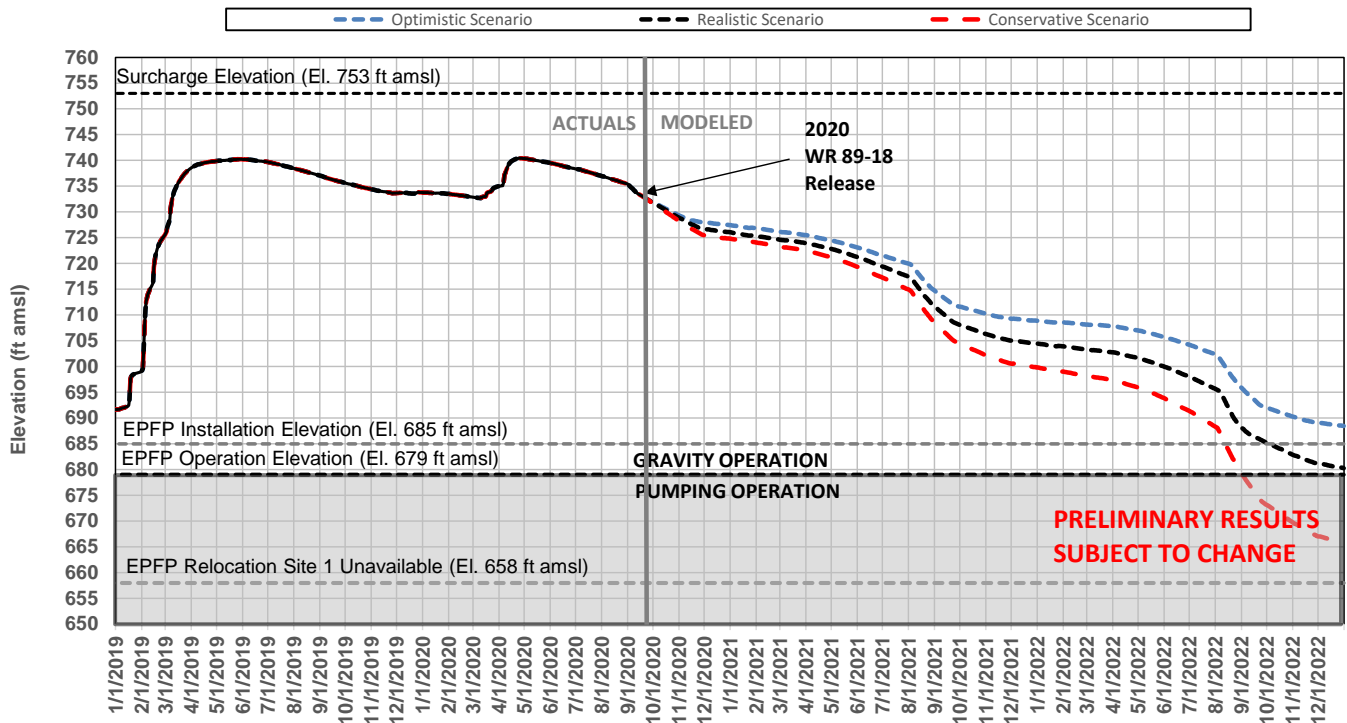


Figure 1. Downstream Release Data through September 22, 2020

Figure 2 provides the projected lake elevation assuming the downstream release continues through November with a total release of 12,000 AF in realistic scenario. In the realistic scenario, the lake elevation would be approximately 726' by December 31, 2020. Based on the current forecasts of imports/exports, if the next two winters are dry, then the Emergency Pumping Facility would need to be deployed in the Summer of 2022. Once Reclamation approves the Water Year 2020-21 allocation, COMB plans to request updated forecasts of imports/exports from the member agencies.

Parameter	Optimistic	Realistic	Conservative
SCC Exports	80% Forecast	Forecast	120% of Forecast
CCWA Inflow	120% Forecast	Forecast	80% of Forecast
WR 89-18 Release	10,000 AF	12,000 AF	14,000 AF



**Figure 2. Lake Elevation Projection assuming Dry Year Hydrology (as of 9/23/2020)**

**AWIA EMERGENCY RESPONSE PLAN**

COMB certified the completion of the emergency response plan in compliance with the America’s Water Infrastructure Act (AWIA) of 2018 which was due on September 25<sup>th</sup>, 2020. COMB had previously certified the completion of a risk and resilience assessment in March 2020. COMB has many of the components of the emergency response plan in existing documents. However, COMB staff developed internal plans for a Cybersecurity Plan, SCADA Master Plan, and Power Shutoff Plan as part of AWIA compliance.

**INFRASTRUCTURE IMPROVEMENT PROJECTS**

Table 1 provides a summary of the status of Fiscal Year 2020-21 projects.

**Table 1. Fiscal Year 2020-2021 Infrastructure Improvement Projects**

Infrastructure Improvement Projects	Status / Phase	Complexity / Challenges	Estimated Completion Date
<b>Infrastructure Improvement Projects</b>			
SCADA System	COMB staff completed a SCADA Master Plan and received a proposal to replace the 6 remaining legacy PLCs.	COMB SCADA system was installed in 2004 and existing hardware is obsolete and in need of replacement.	PLC upgrades are planned to be completed by 2022.
COMB Building and Ground Repair	Admin and Fisheries modular office building replacement approved by the board and the design has been initiated.	COMB Admin and Fisheries modular offices will be replaced in-kind to limit complexity and challenges of construction.	Buildings planned to be replaced by the end of 2020.
SCC Structure Rehabilitation : AVAR/BO Valves	Designs have been completed for Schedule F in Carpinteria. Site visits planned in October to review construction.	COMB staff is currently modifying the work associated with this project as part of the Interim O&M Contract Renewal and in collaboration with CVWD for shutdown planning. COMB will likely prioritize non-shutdown related work that can be completed this winter for this fiscal year.	TBD. Work is shutdown dependent. Shutdowns needs to be coordinated with Reclamation and CVWD.
SCC Line Valves for Shutdown	Replacement 24" gate valve for Ortega Valve #1 has been ordered and planned to be replaced in the winter of 2020-21.	During Schedule D shutdown, excessive leak by was observed from Ortega Control Station. Valve #1 at the station will need to be replaced prior to construction involving the line valve. Additional line valve(s) may be needed in Carpinteria to facilitate shutdown work.	Construction planned for Winter 2020-2021
SCC Structure Rehabilitation : Lower Reach Laterals	Air vacuum release valves and gate valves were purchased to support the project. Designs are being finalized.	In order to facilitate shutdowns on the Lower Reach of the SCC, lateral valves need replacement.	Initial construction planned for Fall/Winter 2020
<b>Special Projects</b>			
Emergency Pumping Facility - Secured Pipeline Project	Makai Ocean Engineering has provided the designs for Member Agency review. Makai will incorporate member agency comments and finalize designs. Key components of the barge are currently being stored under contract.	With the increase in lake levels in 2020, the lake elevation is projected to remain above 685 until the Summer/Fall 2022.	Designs planned to be completed by October 2020.
Sanitary Survey	COMB plans to contract for a Sanitary Survey to be completed in 2021.	The current plan is to complete this in collaboration with COMB's member agencies, Santa Ynez, and the City of Lompoc.	Sanitary Survey is due by October 2021.
Lake Cachuma Water Quality and Sediment Management Study	The Study was completed in August 2020. COMB staff is preparing an implementation plan for the Phase 2 recommendations.	Additional sampling is needed to better understand nutrient and total organic sources prior to determining if additional larger actions at the lake would make sense from a cost-benefit stand point.	TBD

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## CACHUMA OPERATION AND MAINTENANCE BOARD

**DATE:** September 28, 2020

**TO:** Janet Gingras, General Manager

**FROM:** Shane King, Operations Supervisor

**RE: MONTHLY REPORT OF OPERATIONS – AUGUST 2020**

The total flow from Lake Cachuma into the Tecolote Tunnel for August was 2,116.3 acre-feet, for an average daily flow of 68.26 acre-feet. Lake elevation was 736.96 feet at the beginning of August and 735.45 feet at the end of August. Storage decreased by 3,954 acre-feet. CCWA wheeled 89.1 acre-feet of water to Cachuma Project facilities. The City of Santa Barbara wheeled 598.65 acre-feet of water from the Gibraltar Penstock through Lauro Reservoir. The Hilton Creek Watering System was utilized to deliver water to Hilton Creek for the month of August.

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)
Upper	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
Lower	Cater Water Treatment Plant - Carpinteria Reservoir	90,910	27" - 36"	2	15	26	31	42	4	144	4" - 36"	-	3,190,171

Operations staff continue to follow the implemented physical distancing measures as a response to COVID-19. Operators utilize separate vehicles and mostly completed work that could be done by one staff member or with appropriate physical distance if multiple staff are required. Routine operation and maintenance completed during the month of August 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.
- Conducted three flow changes at the North Portal during the month of August

- Reviewed several projects for conflicts within the right of way
- Received and responded to 133 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 anodes and rectifier data

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

- Staff completed structure maintenance in the lower reach of the South Coast Conduit. There are 4 structures that are located in the roadway of the HWY 192. COMB is working on a contract with "Total Barricade Inc." for traffic control services. Once the contract is finalized, staff will schedule lane closures and traffic control work to perform routine maintenance on said structures.
- Continued to monitor installation of electrical conduit and pull boxes near the South Coast Conduit performed by Tidwell Construction. Tidwell has now completed their work to date and COMB personnel no longer need to monitor this project (see photo).
- Tidwell performed three potholes of the South Coast Conduit at Station 393+21, Station 394+31, and 395+58. COMB staff installed three 2" bronze markers at each pothole location for future reference.
- The fish screens for the slide gates on the intake tower were cleaned and inspected. Inspection includes the condition of the sacrificial anodes, condition of the screens themselves, and to verify there is no signs of mussel/clam formations (see photo).
- The slide gates on the Intake Tower at Cachuma Lake were exercised and greased to ensure proper functionality.
- Staff has started a large undertaking of building an enclosure around some of the storage shelving in the COMB maintenance yard. These shelving units were installed several years ago for storage of valves, pipe fittings and other SCC assets. Do to exposure of the elements (i.e. rain, UV damage) these shelving units were not being fully utilized. With an enclosure surrounding the shelves, COMB can store valuable assets without fear of deterioration or damage (see photos).
- COMB staff repaired the Venturi meter differential pressure unit at Ortega Reservoir outlet flow. It was noticed by COMB staff that the Venturi meter was not registering flow. The digital readout on the HMI in the Ortega control station was showing a 0.0 MGD flow out of Ortega Reservoir. After investigation, it was found the power supply for the unit had failed. A new source of power was supplied to the unit and it is now back in full operation.
- Taft electric performed follow-up work at Glen Anne turnout. Taft electric had pulled new wires through pull boxes from the Goleta west vault up to the Glen Anne turnout. The work performed was to install seal tight in the conduit and pull boxes to ensure it was water proof.
- The Bureau of Reclamation conducted their annual site visit and security inspections for all the dams. The inspection went well and there were only a few small-item recommendations from USBR. It was determined that COMB sites needed upgraded "no trespassing" signage.

***Intake tower fish screen cleaning and slide gate exercising***



***Tidwell construction electrical conduit/pull box installation monitoring***



*Lauro yard storage area rehab project*



# CACHUMA OPERATION AND MAINTENANCE BOARD

## BOARD MEMORANDUM

**DATE:** September 28, 2020  
**TO:** Janet Gingras, General Manager  
**FROM:** Tim Robinson, Fisheries Division Manager  
**RE: MONTHLY FISHERIES DIVISION REPORT**

### HIGHLIGHTS:

- USBR continues to deliver the required 2000 Biological Opinion target flows by gravity through the Hilton Creek Watering System (HCWS) at approximately 5.6 cfs to the Upper Release Point which is sustaining the *O. mykiss* population in the creek.
- The 2000 BiOp and Order WR 2019-0148 target flows to the Hwy 154 Bridge are being met by USBR for a Below Normal water year through releases to Hilton Creek and from the Outlet Works to the Lower Santa Ynez River (LSYR) mainstem.
- The 2020 WR 89-18 release began on 8/31/20 with a two day ramp up to a flow rate of 150 cfs. The current release rate is approximately 75 cfs (Outlet Works plus HCWS) as of 9/22/20.

In compliance with the 2000 Cachuma Project Biological Opinion (BiOp) (NMFS, 2000) and as described in the 2004 Lower Santa Ynez River Fish Management Plan (SYRTAC, 2000) and the Monitoring Program in the 2000 Revised Biological Assessment (BA), the COMB Fisheries Division (FD) staff conducts routine monitoring of steelhead/rainbow trout 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:

**Thermograph Network:** The thermograph network is deployed at the beginning of April and removed at the end of December to record water temperatures at all designated locations within the LSYR mainstem and several tributaries. The thermograph network has been deployed since April in the LSYR mainstem and its tributaries. Thermographs are downloaded monthly and the results are summarized in the Annual Monitoring Report.

**Lake Profiles:** Lake Cachuma water quality measurements (temperature, dissolved oxygen concentration solids 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.

**Snorkel surveys:** Snorkel surveys for *O. mykiss* and non-native fish are conducted three times a year. The first survey at the end of the spring has been completed. The results are presented in the annual monitoring report. End of summer surveys will be conducted soon.

**WR 89-18 Release Monitoring:** BiOp required monitoring for the WR 89-18 releases (RPM 6) started prior to the release as requested by USBR and will continue until after the releases are stopped. WR 89-18 releases are conducted by the Santa Ynez River Water Conservation District in collaboration with USBR. The 2020 WR 89-18 release began on 8/31/20 and ramped up over two days to a peak release of 150 cfs (Outlet Works plus Hilton Creek releases through the HCWS), This is a Below Narrows Account (BNA) release with release water now flowing past the Narrows and out into the Lompoc plain. The release is expected to continue into November. As requested by USBR and approved by NMFS, migrant trapping was conducted at one location (within the Refugio Reach of the Lower Santa Ynez River mainstem) for the first 18 days of the release. No *O. mykiss* were caught in the trap going upstream or downstream.

### **Tributary Project Updates:**

#### ***South Side Erosion Control and Reforestation Project at Quiota Creek Crossing 8:***

Funding for this project has been secured through a National Fish and Wildlife Foundation (NFWF) grant for \$43,973. The COMB Board accepted the grant during the 3/23/20 Board meeting and authorized the COMB General Manager to go forward with the project through Resolution No. 705. All landowner agreements and permits for the project have been secured. COMB issued a construction contract to Peter Lapidus Construction (PLC) for \$41,530. PLC has successfully completed their contract obligations. The only element of the project yet to be done by COMB staff is planting of the 20 oak trees as proposed in the project plan. Those trees will be planted and the project will be completed by the end of September.

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

**HCWS and HCEBS:** The HCWS and HCEBS are owned, operated, and maintained by USBR. The HCEBS was completed at the end of January 2016. USBR technical staff continues to consider improvement options for the HCWS. Currently USBR is delivering water to Hilton Creek through the HCWS by gravity flow to the Upper Release Point with no backup from the HCEBS. The HCEBS delivery pipeline across the Stilling Basin has been temporarily removed.

No further observable work has been done on the HCWS pumping barge, with no date set for installation of the ordered parts.

### **Surcharge Water Accounting:**

The following table summarizes the amount of surcharge water used to date from each of the three accounts plus unallocated project yield 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 was 5/27/11, or the day following the last day of full surcharge and end of the last spill event. As of May 2012, all of the fish rearing accounts have been used and USBR is now using Project Yield to meet BiOp target flows. Water Right (WR 89-18) release durations since 2013 are noted as follows: 7/15/13 - 12/2/13, 8/18/14 - 11/11/14, 8/3/15 - 9/26/15, 7/12/16 - 8/29/16, 8/21/17 - 11/8/17, and 8/6/18 – 9/12/18. There were no WR 89-18 releases in 2019 and the 2020 release is ongoing. During these releases, no fish rearing releases are debited as WR 89-18 releases are used conjunctively with fish flows under the Cachuma Project Settlement Agreement. The Adaptive Management Committee (AMC) called for two releases from the Adaptive Management Account (AMA), 35 acre-feet in October 2012 and 114 acre-feet in June 2013. The remaining amount in the AMA is 351 acre-feet. All of the Fish Passage Supplementation Account (FPSA) has been used as explained in previous reports.

**Table 1:** Summary of the surcharge water accounting and use of Project Yield as of the day after the end of the last spill event and full surcharge (5/27/11).

<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>WY2019</b>	3,200	3,307	-107
<b>WY2020</b>	0	2,558	-2,558
<b>Adaptive Management</b>	500	149	351
<b>Fish Rearing***</b>	8,684	8,684	0
<b>Unallocated Project Yield</b>		20,215	
<b>Total:</b>	9,184	34,913	-2,314
* Originally was 9,200 af, 8,942 af in 2008 and 9,184 af in 2013.			
** Values as of 8/31/20.			
*** 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 currently is working on the WY2020 Annual Monitoring Report (the USBR report) and the Annual Monitoring Summary (the COMB report) as well as any other BiOp or Order WR 2019-0148 compliance measures as requested by USBR. All annual reports through WY2019 have been completed and submitted to NMFS or posted on the COMB webpage.

**Outreach and Training:** Outreach continues with Quiota Creek and Salsipuedes Creek watershed landowners, 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 Garelo) – No work was done this month.

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# CACHUMA OPERATION & MAINTENANCE BOARD

## BOARD MEMORANDUM

Date:	September 28, 2020
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:**

***Maintenance***

This memorandum on the Lake Cachuma Oak Tree Restoration Program reflects maintenance completed since December, 2019 to the present (12/1/19 – 9/28/20, Table 1). Labor and expenses for the entire fiscal year (July 2019 - June 2020) as well as water usage will be tracked separately and reported as necessary as recommended by the Lake Cachuma Oak Tree Committee. COMB staff continues to rely on the Fisheries Division seasonal employees 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. The 2019 Annual Inventory has been completed and Fiscal Year 2019-20 Financials has been compiled by the COMB-FD staff for the annual report and have been presented to the Lake Cachuma Oak Tree Committee on 9/3/20. A separate Board memo has been prepared on the findings of the Annual Report.

**Table 1:** Cachuma Oak Tree Program completed tasks since December, 2019.

	Dec 2019	Jan 2020 <sup>2</sup>	Feb 2020 <sup>2</sup>	March 2020 <sup>2</sup>	April 2020 <sup>2</sup>	May 2020	June 2020	July 2020	Aug 2020	Sept 2020
<b>Year 11 Oaks (2019-2020)</b>		New Trees Gopher Baskets Fert/Comp Deer Cages Mulch/Irrigated	New Trees Gopher Baskets Fert/Comp Deer Cages Mulch/Irrigated	Weeded	Weeded	Irrigated Weeded	Irrigated Weeded		Irrigated Weeded	Irrigated Weeded
<b>Year 10 Oaks (2018-2019)</b>	Planted <sup>1</sup>		Irrigated	Irrigated Weeded	Weeded	Weeded		Irrigated Weeded	Irrigated Weeded	
<b>Year 9 Oaks (2016-2017)</b>	Planted <sup>1</sup>					Weeded		Irrigated Weeded	Irrigated Weeded	
<b>Year 8 Oaks (2015-2016)</b>	Planted <sup>1</sup>			Mulched		Weeded Mowed		Irrigated Weeded	Irrigated Weeded	Irrigated Weeded
<b>Year 7 Oaks (2014-2015)</b>	Mulched Weeded					Mowed				Irrigated Weeded
<b>Year 6 Oaks (2010-2011)</b>						Mowed				
<b>Year 5 Oaks (2009-2010)</b>										
<b>Year 4 Oaks (2008-2009)</b>										
<b>Year 3 Oaks (2007-2008)</b>										
<b>Year 2 Oaks (2006-2007)</b>										
<b>Year 1 Oaks (2005-2006)</b>										
<sup>1</sup> Dead trees replaced										
<sup>2</sup> Oak tree inventory										

Another round of irrigation and weeding was conducted on the Year 11 trees at the Santa Barbara County Park in early September. This newest age class of trees is the most susceptible to the summer dry season due to their smaller size and root structure, so crews are providing extra irrigation to those trees.

All of the Year 7 and Year 8 trees were irrigated in and around Bradbury Dam this month. Two irrigation teams are currently watering Year 7 trees at Storke Flat (Exhibit 1).

Personnel are also removing cages from trees that have outgrown their cage and storing cage material for later use (Exhibit 2), removing tree tubes from trees taller than the top of the tube, adding shade cloth for rodent protection, and clearing brush along the perimeter of planting zones.

**LIST OF EXHIBITS:**



**Exhibit 1:** Lake Cachuma Oak Tree Restoration program showing (a) and (b) irrigation of Year 7 trees at Storke Flat.



**Exhibit 2:** Lake Cachuma Oak Tree Restoration program showing (a) removal of tree cage, and (b) recycling tree cage for later use.

**CACHUMA OPERATION AND MAINTENANCE BOARD**  
**METERED USE REPORT FOR AUGUST 2020**

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		460.91	18+62	G. WEST	123.42
Boundary Meter - West		(0.21)	78+00	Corona Del Mar FILTER Plant	1000.33
			122+20	STOW RANCH	0.00
				Raytheon (SWP) (Warren Act Contract)	(4.00)
				Morehart (SWP) (Warren Act Contract)	(10.00)
				SWP CREDIT (Warren Act Contract)	0.00
			<b>TOTAL</b>		<b>1,109.75</b>
			<b>MONTECITO WATER DISTRICT</b>		
			260+79	BARKER PASS	84.64
			386+65	MWD YARD	19.53
			487+07	VALLEY CLUB	0.00
			499+65	E. VALLEY-ROMERO PUMP	168.36
			510+95	MWD PUMP (SWD)	15.77
			510+95	ORTEGA CONTROL	19.01
			526+43	ASEGRA RD	0.44
			555+80	CO. YARD	0.00
			583+00	LAMBERT RD	0.00
			599+27	TORO CANYON	0.00
				SWP CREDIT (Warren Act Contract)	0.00
			<b>TOTAL</b>		<b>307.76</b>
			<b>CITY OF SANTA BARBARA</b>		
			CATER	INFLOW	1707.90
			Gibraltar	PENSTOCK	(598.65)
			CATER	SO. FLOW	(984.36)
			Sheffield	SHEF.LIFT	197.83
				SWP CREDIT (Warren Act Contract)	0.00
				La Cumbre Mutual (SWP) (Warren Act)	(124.59)
			<b>TOTAL</b>		<b>198.13</b>
			<b>SANTA YNEZ RIVER WATER CONSERVATION DISTRICT, ID#1</b>		
			COUNTY PARK, ETC		2.50
			<b>TOTAL</b>		<b>2.50</b>
			<b>BREAKDOWN OF DELIVERIES BY TYPE:</b>		
			STATE WATER DELIVERED TO LAKE		84.00
			STATE WATER TO SOUTH COAST (including from storage)		138.59
			<b>METERED DIVERSION</b>		<b>2,078.83</b>
SWP CREDIT (Warren Act Contract) 0.00					
<b>TOTAL 460.69</b>					
Note: Meter reads were taken on: 8/31/2020					

**WATER YEAR 19-20 CACHUMA PROJECT ALLOCATION**

**CACHUMA OPERATION AND MAINTENANCE BOARD  
WATER PRODUCTION AND WATER USE REPORT  
FOR THE MONTH OF AUGUST 2020 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)	2,116.3	14,069.8
Tecolote Tunnel Infiltration	71.7	1,154.2
Cachuma Lake (County Park)	2.5	17.5
<b>Subtotal - Water Production</b>	<b>2,190.5</b>	<b>15,241.5</b>
<b>WATER DELIVERIES:</b>		
State Water Diversion	138.6	741.8
Cachuma Diversion	2,078.8	14,513.7
Storage gain/(loss)	35.9	38.8
<b>Subtotal - Water Deliveries</b>	<b>2,253.3</b>	<b>15,294.3</b>
<b>Total Water Production</b>	<b>2,190.5</b>	<b>15,241.5</b>
<b>Total Water Deliveries</b>	<b>2,253.3</b>	<b>15,294.3</b>
<b>Difference = Apparent Water Loss</b>	<b>(62.8)</b>	<b>(52.8)</b>
<b>% Apparent Water Loss</b>	<b>-2.87%</b>	<b>-0.35%</b>

**SCC APPARENT WATER LOSS ALLOCATION (AWL) <sup>(4)</sup>**

	<b>GWD</b>	<b>SB CITY</b>	<b>MWD</b>	<b>CVWD</b>	<b>TOTAL</b>
<b>CURRENT MONTH CHARGE / (ADJUSTMENT) <sup>(3)</sup></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) <sup>(3)</sup></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) <sup>(3)</sup></b>					<b>(52.8)</b>
<b>Total AWL Incurred (WYTD)</b>					<b>(52.8)</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	854.5	198.1	284.0	207.1	2.5	1,546.2
Agricultural	255.2	0.0	23.8	253.6	N/A	532.6
<b>Subtotal Project Water Use</b>	<b>1,109.8</b>	<b>198.1</b>	<b>307.8</b>	<b>460.7</b>	<b>2.5</b>	<b>2,078.8</b>
(+) Apparent Water Loss	0.0	0.0	0.0	0.0	N/A	0.0
(+) Evaporative Loss <sup>(4)</sup>	3.6	151.6	21.8	1.3	5.2	183.5
<b>Total Project Water Charge</b>	<b>1,113.4</b>	<b>349.7</b>	<b>329.5</b>	<b>462.0</b>	<b>7.7</b>	<b>2,262.3</b>
<b>WATER YEAR-TO-DATE</b>						
Water Usage						
M&I	6,604.1	1,536.8	1,931.4	1,277.9	17.5	11,367.6
Agricultural	1,618.5	0.0	148.2	1,379.4	N/A	3,146.1
<b>Subtotal Project Water Use</b>	<b>8,222.6</b>	<b>1,536.8</b>	<b>2,079.6</b>	<b>2,657.3</b>	<b>17.5</b>	<b>14,513.7</b>
(+) Apparent Water Loss	0.0	0.0	0.0	0.0	N/A	0.0
(+) Evaporative Loss <sup>(4)</sup>	267.4	1,040.6	210.4	80.3	34.8	1,633.5
<b>Total Project Water Charge (*)</b>	<b>8,489.9</b>	<b>2,577.4</b>	<b>2,290.0</b>	<b>2,737.6</b>	<b>52.2</b>	<b>16,147.2</b>

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

**WATER YEAR 19-20 CACHUMA PROJECT ALLOCATION**  
**CACHUMA OPERATION AND MAINTENANCE BOARD**  
**WATER PRODUCTION AND WATER USE REPORT**  
**FOR THE MONTH OF AUGUST 2020 AND THE WATER YEAR TO DATE (WYTD) <sup>(1)</sup>**

(All in rounded Acre Feet)

**CACHUMA PROJECT WATER BALANCE**

	GWD	SB CITY	MWD	CVWD	SYRID #1	TOTAL
<b>Project Water Carryover - 10/1/2019</b>	7,940.5	14,187.8	3,816.2	2,475.7	452.8	28,873.0
Transfers/Adjustment	0.0	0.0	0.0	0.0	0.0	0.0
<b>(-) Project Water Charge (WYTD)</b>	<b>7,940.5</b>	<b>2,577.4</b>	<b>2,290.0</b>	<b>2,475.7</b>	<b>52.2</b>	<b>15,335.9</b>
<b>Balance Carryover Water</b>	<b>0.0</b>	<b>11,610.4</b>	<b>1,526.2</b>	<b>0.0</b>	<b>400.6</b>	<b>13,537.1</b>
<b>Current Year Allocation <sup>(5)</sup></b>	<b>9,322.0</b>	<b>8,277.0</b>	<b>2,651.0</b>	<b>2,813.0</b>	<b>2,651.0</b>	<b>25,714.0</b>
<b>(-) Balance of Project Water Charge (WYTD)</b>	<b>549.4</b>	<b>0.0</b>	<b>0.0</b>	<b>261.9</b>	<b>0.0</b>	<b>811.3</b>
<b>Net Allocation Available Before Adjustments</b>	<b>8,772.6</b>	<b>8,277.0</b>	<b>2,651.0</b>	<b>2,551.1</b>	<b>2,651.0</b>	<b>24,902.7</b>
<b><u>Adjustments to Net Allocation (WYTD)</u></b>						
Carryover Balances Spilled	0.0	0.0	0.0	0.0	0.0	0.0
Surplus	0.0	0.0	0.0	0.0	0.0	0.0
State Water Exchange <sup>(6)</sup>	504.0	336.0	337.0	225.0	(1,402.0)	0.0
Transfers/Adjustment - SB/La Cumbre	0.0	(30.0)	0.0	0.0	0.0	(30.0)
Transfers/Adjustment - Bishop Ranch <sup>(7)</sup>	100.0	0.0	0.0	0.0	0.0	100.0
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>9,376.6</b>	<b>8,583.0</b>	<b>2,988.0</b>	<b>2,776.1</b>	<b>1,249.0</b>	<b>24,972.7</b>
<b>Total Cachuma Project Water Available</b>	<b>9,376.6</b>	<b>20,193.4</b>	<b>4,514.2</b>	<b>2,776.1</b>	<b>1,649.6</b>	<b>38,509.8</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 USBR, 100% allocation to Member Agencies, effective 10/1/19.
- (6) Per SWP Exchange Agrmt GWD received 146 AF; City of SB received 97 AF; MWD received 98 AF and CVWD received 65 AF from ID#1 in August 2020.
- (7) Transfer per Contract for Exchange Water with Thomas B. Bishop Company and GWD (100 AF)
- (8) Memo only - State Water Deliveries to Lake Cachuma for August was 84 AF.

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

MONTH: **AUGUST 2020**

**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>333.0</b>	Feet
Water in Storage	21.04	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>547.2</b>	Feet
Water in Storage	467.85	AF

**ORTEGA RESERVOIR**

Capacity at 460' elevation:	65	AF
Capacity at outlet at elevation 440':	0	AF
Stage of Reservoir Elevation	<b>451.1</b>	Feet
Water in Storage	33.03	AF

**CARPINTERIA RESERVOIR**

Capacity at 384' elevation:	45	AF
Capacity at outlet elevation 362':	0	AF
Stage of Reservoir Elevation	<b>377.5</b>	Feet
Water in Storage	29.11	AF

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

Change in Storage	529.99	AF
	44.73	AF

**CACHUMA RESERVOIR**

Capacity at 750' elevation: <sup>(2)</sup>	184,121	AF
Capacity at sill of tunnel 660' elevation:	24,281	AF

Stage of Reservoir Elevation	<b>735.50</b>	Feet
Water in Storage	<b>144,000</b>	AF
Surface Area	<b>2,504</b>	Acres
Evaporation	<b>1,554.6</b>	AF
Inflow	<b>316.6</b>	AF
Downstream Release WR8918	<b>0.0</b>	AF
Fish Release (Hilton Creek)	<b>360.4</b>	AF
Outlet	<b>327.0</b>	AF
Spill/Seismic Release	<b>0</b>	AF
State Water Project Water	<b>90.20</b>	AF
Change in Storage	<b>-3,954</b>	AF
Tecolote Diversion	<b>2,116.3</b>	AF

**Rainfall:    Month:    0.00                      Season:    0.00                      Percent of Normal:    0%**

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

(2) In 2014, flashboard installation raised Cachuma Reservoir max elevation to 753' (193,305 AF); surcharge water reserved for fish releases.



**SUMMARY OF WATER USED**  
**CACHUMA PROJECT - CONTRACT #I75R-1802**

Contract Year: 10/1/19 to: 9/30/20

Contract Entity: **Goleta Water District**  
 Update by COMB 8/31/2020

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	7,940.5	9,322.0
Nov		
Dec		
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Total	7,940.5	9,322.0

TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED		
Acre-feet			Allocation			Allocation		
M & I	Agr	Total	Evap	Used	Total	M & I	Agr	Total
746.4	248.8	995.2	59.4	995.2	1,054.6	783.9	270.6	-
516.4	163.1	679.5	28.0	679.5	707.6	533.7	173.9	-
359.1	49.0	408.1	13.5	408.1	421.5	367.2	54.4	-
332.7	21.2	353.9	15.8	353.9	369.8	341.9	27.9	-
359.2	63.4	422.5	23.0	422.5	445.5	371.9	73.6	-
402.0	65.4	467.5	19.7	467.5	487.2	412.5	74.7	-
596.6	51.9	648.4	27.5	648.4	675.9	610.2	65.7	-
778.5	259.5	1,038.0	36.4	1,038.0	1,074.4	793.9	280.5	-
795.5	211.5	1,006.9	26.1	1,006.9	1,033.0	803.3	229.7	-
863.2	229.5	1,092.7	14.5	1,092.7	1,107.1	863.2	243.9	-
854.5	255.2	1,109.8	3.6	560.3	563.9	434.2	129.7	423.1
-	-	-	-	-	-	-	-	126.4
-	-	-	-	-	-	-	-	-
6,604.1	1,618.5	8,222.6	267.4	7,673.1	7,940.5	6,315.9	1,624.6	549.4

CONVERSIONS (M&I AND AG SPLIT)			
CARRYOVER WATER		CURR YR ALLOCATION	
M & I	Agr	M & I	Agr
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
860.3	(860.3)	-	-
434.2	(434.2)	-	-
-	-	-	-

SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
Allocation			Allocation		
Total	M & I	Agr	M & I	Agr	Total
7,940.5	5,021.4	2,919.1	6,732.0	2,590.0	9,322.0
ID#1 Exch (+45AF)			24.1	20.9	45.0
			-	-	-
			-	-	-
			-	-	-
			-	-	-
			-	-	-
Bishop Ranch Exch (+100AF) + ID#1 Exch (+73AF)			135.8	37.2	173.0
ID#1 Exch (+110AF)			53.7	56.3	110.0
ID#1 Exch (+130AF)			65.0	65.0	130.0
ID#1 Exch (+146AF)			80.2	65.8	146.0
			-	-	-

BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
Allocation			Allocation		
Total	M & I	Agr	M & I	Agr	Total
6,885.9	4,237.5	2,648.5	6,756.1	2,610.9	9,367.0
6,178.4	3,703.8	2,474.6	6,756.1	2,610.9	9,367.0
5,756.8	3,336.6	2,420.3	6,756.1	2,610.9	9,367.0
5,387.1	2,994.7	2,392.4	6,756.1	2,610.9	9,367.0
4,941.5	2,622.8	2,318.8	6,756.1	2,610.9	9,367.0
4,454.4	2,210.3	2,244.1	6,756.1	2,610.9	9,367.0
3,778.4	1,600.1	2,178.3	6,756.1	2,610.9	9,367.0
2,704.0	806.2	1,897.9	6,891.9	2,648.1	9,540.0
1,671.0	2.9	1,668.1	6,945.7	2,704.3	9,650.0
563.9	0.0	563.9	7,010.7	2,769.3	9,780.0
0.0	0.0	0.0	6,667.8	2,708.8	9,376.6

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 9,376.6



**SUMMARY OF WATER USED**  
**CACHUMA PROJECT - CONTRACT #I75R-1802**

Contract Year: 10/1/19 to: 9/30/20

Contract Entity: **City of Santa Barbara**  
 Update by COMB 8/31/2020

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	14,187.8	8,277.0
Nov		
Dec		
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Total	14,187.8	8,277.0

TOTAL WATER USED			WATER USE CHARGED				WATER USE CHARGED			
Acre-feet			Allocation				Allocation			
M & I	Agr	Total	Evap	Used	Total	M & I	-----	M & I	-----	Total
111.0	-	111.0	112.7	111.0	223.7	223.7	-	-	-	-
133.1	-	133.1	59.5	133.1	192.6	192.6	-	-	-	-
112.7	-	112.7	30.9	112.7	143.6	143.6	-	-	-	-
72.8	-	72.8	38.6	72.8	111.4	111.4	-	-	-	-
251.0	-	251.0	59.5	251.0	310.4	310.4	-	-	-	-
154.0	-	154.0	55.0	154.0	209.0	209.0	-	-	-	-
142.8	-	142.8	86.0	142.8	228.8	228.8	-	-	-	-
76.4	-	76.4	142.2	76.4	218.6	218.6	-	-	-	-
128.1	-	128.1	147.8	128.1	275.9	275.9	-	-	-	-
156.9	-	156.9	156.9	156.9	313.7	313.7	-	-	-	-
198.1	-	198.1	151.6	198.1	349.7	349.7	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1,536.8	-	1,536.8	1,040.6	1,536.8	2,577.4	2,577.4	-	-	-	-

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	-	-	-

SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
	Total	Allocation	Allocation	Total	
		M & I	-----	M & I	-----
Begin Bal	14,187.8	14,187.8		8,277.0	8,277.0
LCMWD Trsfr (-30AF) + ID#1 Exch (+30AF)				-	-
				-	-
				-	-
				-	-
				-	-
				-	-
ID#1 Exch (+49AF)				49.0	49.0
ID#1 Exch (+74AF)				74.0	74.0
ID#1 Exch (+86AF)				86.0	86.0
ID#1 Exch (+97AF)				97.0	97.0
				-	-

BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
	Total	Allocation	Allocation	Total	
		M & I	-----	M & I	-----
Oct	13,964.1	13,964.1	-	8,277.0	8,277.0
Nov	13,771.6	13,771.6	-	8,277.0	8,277.0
Dec	13,628.0	13,628.0	-	8,277.0	8,277.0
Jan	13,516.6	13,516.6	-	8,277.0	8,277.0
Feb	13,206.1	13,206.1	-	8,277.0	8,277.0
Mar	12,997.1	12,997.1	-	8,277.0	8,277.0
Apr	12,768.3	12,768.3	-	8,277.0	8,277.0
May	12,549.7	12,549.7	-	8,326.0	8,326.0
Jun	12,273.8	12,273.8	-	8,400.0	8,400.0
Jul	11,960.1	11,960.1	-	8,486.0	8,486.0
Aug	11,610.4	11,610.4	-	8,583.0	8,583.0
Sep			-		

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 20,193

**SUMMARY OF WATER USED**  
**CACHUMA PROJECT - CONTRACT #I75R-1802**

Contract Year: 10/1/19 to: 9/30/20

Contract Entity: **Montecito Water District**  
 Update by COMB 8/31/2020

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	3,816.2	2,651.0
Nov		
Dec		
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Total	3,816.2	2,651.0

TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED		
Acre-feet			Allocation			Allocation		
M & I	Agr	Total	Evap	Used	Total	M & I	Agr	Total
252.3	27.4	279.7	29.3	279.7	309.0	275.7	33.3	-
193.6	17.0	210.6	14.6	210.6	225.2	205.1	20.1	-
15.7	0.4	16.0	7.4	16.0	23.4	21.4	2.0	-
66.8	1.5	68.3	9.2	68.3	77.5	74.0	3.5	-
145.3	10.2	155.5	13.8	155.5	169.3	156.0	13.3	-
80.9	4.0	84.9	12.4	84.9	97.3	90.4	6.9	-
115.7	3.5	119.2	19.0	119.2	138.2	130.2	8.0	-
264.1	22.2	286.3	29.4	286.3	315.7	286.3	29.5	-
243.2	17.8	261.0	27.6	261.0	288.5	263.4	25.2	-
269.7	20.5	290.2	26.1	290.2	316.3	288.1	28.1	-
284.0	23.8	307.8	21.8	307.8	329.5	298.6	30.9	-
-	-	-	-	-	-	-	-	-
1,931.4	148.2	2,079.6	210.4	2,079.6	2,290.0	2,089.2	200.8	-

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  
 Oct  
 Nov  
 Dec  
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 Sep

SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS			
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	3,816.2	3,041.1	775.1	2,244.0	407.0	2,651.0
ID#1 Exch (+30AF)				16.1	13.9	30.0
				-	-	-
				-	-	-
				-	-	-
				-	-	-
				-	-	-
ID#1 Exch (+49AF)				24.0	25.0	49.0
ID#1 Exch (+74AF)				36.2	37.8	74.0
ID#1 Exch (+86AF)				43.0	43.0	86.0
ID#1 Exch (+98AF)				53.8	44.2	98.0
				-	-	-

Month  
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BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	3,507.2	2,765.4	741.8	2,260.1	420.9	2,681.0
Nov	3,282.0	2,560.3	721.7	2,260.1	420.9	2,681.0
Dec	3,258.6	2,538.9	719.7	2,260.1	420.9	2,681.0
Jan	3,181.1	2,464.9	716.2	2,260.1	420.9	2,681.0
Feb	3,011.8	2,308.9	702.9	2,260.1	420.9	2,681.0
Mar	2,914.5	2,218.5	696.0	2,260.1	420.9	2,681.0
Apr	2,776.2	2,088.3	687.9	2,260.1	420.9	2,681.0
May	2,460.5	1,802.0	658.5	2,284.1	445.9	2,730.0
Jun	2,171.9	1,538.7	633.3	2,320.3	483.7	2,804.0
Jul	1,855.7	1,250.5	605.2	2,363.3	526.7	2,890.0
Aug	1,526.2	951.9	574.3	2,417.1	570.9	2,988.0

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 4,514.2

**SUMMARY OF WATER USED**  
**CACHUMA PROJECT - CONTRACT #I75R-1802**

Contract Year: 10/1/19 to: 9/30/20

Contract Entity: **Carpinteria Valley Water District**  
 Update by COMB 8/31/2020

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	2,475.7	2,813.0
Nov		
Dec		
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Total	2,475.7	2,813.0

TOTAL WATER USED			WATER USE CHARGED			WATER USE CHARGED		
Acre-feet			Allocation			Allocation		
M & I	Agr	Total	Evap	Used	Total	M & I	Agr	Total
166.1	204.2	370.3	18.3	370.3	388.6	174.6	214.0	-
137.8	174.6	312.4	8.3	312.4	320.7	141.6	179.0	-
91.9	50.8	142.7	3.8	142.7	146.5	93.7	52.8	-
67.9	38.5	106.4	4.4	106.4	110.9	69.9	40.9	-
106.0	105.4	211.4	6.2	211.4	217.6	108.8	108.8	-
58.2	48.1	106.3	5.2	106.3	111.5	60.5	51.0	-
47.3	29.6	76.9	7.6	76.9	84.5	50.5	34.0	-
101.9	121.2	223.0	11.0	223.0	234.0	106.4	127.6	-
104.6	121.8	226.4	8.9	226.4	235.2	108.1	127.1	-
189.2	231.6	420.8	5.3	420.8	426.1	191.2	234.9	-
207.1	253.6	460.7	1.3	198.8	200.1	90.0	110.1	117.7
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
1,277.9	1,379.4	2,657.3	80.3	2,395.4	2,475.7	1,195.2	1,280.5	117.7

CONVERSIONS (M&I AND AG SPLIT)			
CARRYOVER WATER		CURR YR ALLOCATION	
M & I	Agr	M & I	Agr
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
44.6	(44.6)	-	-
-	-	-	-

Month  
 Oct  
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SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS			
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	2,475.7	1,150.6	1,325.1	1,400.0	1,413.0	2,813.0
ID#1 Exch (+20AF)				10.7	9.3	20.0
				-	-	-
				-	-	-
				-	-	-
				-	-	-
				-	-	-
ID#1 Exch (+33AF)				16.2	16.8	33.0
ID#1 Exch (+49AF)				23.9	25.1	49.0
ID#1 Exch (+58AF)				29.0	29.0	58.0
ID#1 Exch (+65AF)				35.7	29.3	65.0
				-	-	-

Month  
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BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
	2,087.1	976.0	1,111.1	1,410.7	1,422.3	2,833.0
	1,766.5	834.4	932.1	1,410.7	1,422.3	2,833.0
	1,620.0	740.7	879.3	1,410.7	1,422.3	2,833.0
	1,509.1	670.8	838.3	1,410.7	1,422.3	2,833.0
	1,291.5	562.0	729.5	1,410.7	1,422.3	2,833.0
	1,180.0	501.5	678.4	1,410.7	1,422.3	2,833.0
	1,095.5	451.0	644.4	1,410.7	1,422.3	2,833.0
	861.4	344.6	516.8	1,426.9	1,439.1	2,866.0
	626.2	236.5	389.7	1,450.8	1,464.2	2,915.0
	200.1	45.3	154.8	1,479.8	1,493.2	2,973.0
	0.0	0.0	0.0	1,397.8	1,378.3	2,776.1

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 2,776.1

**SUMMARY OF WATER USED**  
**CACHUMA PROJECT - CONTRACT #I75R-1802**

Contract Year: 10/1/19 to: 9/30/20

Contract Entity: **Santa Ynez River Water Conservation District, ID#1**  
 Update by COMB 8/31/2020

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr
Oct	452.8	2,651.0
Nov		
Dec		
Jan		
Feb		
Mar		
Apr		
May		
Jun		
Jul		
Aug		
Sep		
Total	452.8	2,651.0

TOTAL WATER USED			WATER USE CHARGED				WATER USE CHARGED			
Acre-feet			Allocation				Allocation			
M & I	Agr	Total	Evap	Used	Total	M & I	Agr	M & I	Agr	Total
1.8	-	1.8	3.6	1.8	5.4	1.9	3.5	-	-	-
1.7	-	1.7	1.9	1.7	3.6	1.7	1.9	-	-	-
1.2	-	1.2	1.0	1.2	2.2	1.2	1.0	-	-	-
1.2	-	1.2	1.3	1.2	2.5	1.3	1.2	-	-	-
1.4	-	1.4	1.9	1.4	3.3	1.4	1.9	-	-	-
0.9	-	0.9	1.8	0.9	2.7	0.9	1.8	-	-	-
0.8	-	0.8	2.9	0.8	3.7	0.8	2.8	-	-	-
0.9	-	0.9	4.8	0.9	5.6	0.9	4.7	-	-	-
2.3	-	2.3	5.0	2.3	7.3	2.3	4.9	-	-	-
2.9	-	2.9	5.3	2.9	8.3	3.0	5.3	-	-	-
2.5	-	2.5	5.2	2.5	7.7	2.5	5.2	-	-	-
-	-	-	-	-	-	-	-	-	-	-
17.5	-	17.5	34.8	17.5	52.2	17.9	34.3	-	-	-

CONVERSIONS (M&I AND AG SPLIT)			
CARRYOVER WATER		CURR YR ALLOCATION	
M & I	Agr	M & I	Agr
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
0.6	(0.6)	-	-
2.5	(2.5)	-	-
-	-	-	-

Month  
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SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS			
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	452.8	14.8	438.0	935.0	1,716.0	2,651.0
ID#1 Exch (-125AF)				(67.0)	(58.0)	(125.0)
				-	-	-
				-	-	-
				-	-	-
				-	-	-
				-	-	-
ID#1 Exch (-204AF)				(100.0)	(104.0)	(204.0)
ID#1 Exch (-307AF)				(150.0)	(157.0)	(307.0)
ID#1 Exch (-360AF)				(180.0)	(180.0)	(360.0)
ID#1 Exch (-406AF)				(223.0)	(183.0)	(406.0)
				-	-	-

Month  
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BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
County Parks Usage (AF)	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
1.8	447.4	12.9	434.5	868.0	1,658.0	2,526.0
1.7	443.8	11.2	432.7	868.0	1,658.0	2,526.0
1.2	441.7	10.0	431.7	868.0	1,658.0	2,526.0
1.2	439.2	8.7	430.5	868.0	1,658.0	2,526.0
1.4	435.9	7.3	428.6	868.0	1,658.0	2,526.0
0.9	433.2	6.4	426.8	868.0	1,658.0	2,526.0
0.8	429.5	5.6	423.9	868.0	1,658.0	2,526.0
0.9	423.8	4.6	419.2	768.0	1,554.0	2,322.0
2.3	416.6	2.3	414.2	618.0	1,397.0	2,015.0
2.9	408.3	0.0	408.3	438.0	1,217.0	1,655.0
2.5	400.6	0.0	400.6	215.0	1,034.0	1,249.0
-	-	-	-	-	-	-

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 1,649.6

**SUMMARY OF WATER USED**  
**CACHUMA PROJECT - CONTRACT #I75R-1802**

Contract Year: 10/1/19 to: 9/30/20

Contract Entity: **Santa Barbara Co. Water Agency**  
 Update by COMB 8/31/2020

Month	Carryover Balance Prior Yr	Approved Allocation Curr Yr	TOTAL WATER USED				WATER USE CHARGED			WATER USE CHARGED				
			Acre-feet				Allocation			Allocation				
			Use %	M & I	Agr	Total	Evap	Div	Total	M & I	Agr	M & I	Agr	Total
Oct	28,873.0	25,714.0	0.0	1,277.6	480.4	1,758.0	223.2	1,758.0	1,981.2	1,459.7	521.5	-	-	-
Nov			0.0	982.6	354.7	1,337.3	112.3	1,337.3	1,449.6	1,074.7	374.8	-	-	-
Dec			0.0	580.5	100.1	680.7	56.5	680.7	737.2	627.1	110.1	-	-	-
Jan			0.0	541.5	61.2	602.8	69.3	602.8	672.1	598.5	73.6	-	-	-
Feb			0.0	862.8	179.0	1,041.7	104.4	1,041.7	1,146.1	948.5	197.6	-	-	-
Mar			0.0	696.1	117.6	813.7	94.1	813.7	907.8	773.4	134.4	-	-	-
Apr			0.0	903.1	85.0	988.1	143.0	988.1	1,131.2	1,020.5	110.6	-	-	-
May			0.0	1,221.7	402.8	1,624.6	223.8	1,624.6	1,848.4	1,406.1	442.3	-	-	-
Jun			0.0	1,273.5	351.1	1,624.6	215.3	1,624.6	1,839.9	1,452.9	387.0	-	-	-
Jul			0.0	1,481.9	481.5	1,963.4	208.1	1,963.4	2,171.5	1,659.3	512.2	-	-	-
Aug			0.0	1,546.2	532.6	2,078.8	183.5	1,267.5	1,451.0	1,175.1	275.9	540.8	270.5	811.3
Sep			-	-	-	-	-	-	-	-	-	-	-	-
Total	28,873.0	25,714.0	0.3	11,367.6	3,146.1	14,513.7	1,633.5	13,702.4	15,335.9	12,195.8	3,140.1	540.8	270.5	811.3

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	860.9	(860.9)	-	-
Aug	481.4	(481.4)	-	-
Sep	-	-	-	-

Month	SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS		
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	28,873.0	23,415.7	5,457.3	19,588.0	6,126.0	25,714.0
Oct	-	-	-	(16.1)	(13.9)	(30.0)
Nov	-	-	-	-	-	-
Dec	-	-	-	-	-	-
Jan	-	-	-	-	-	-
Feb	-	-	-	-	-	-
Mar	-	-	-	-	-	-
Apr	-	-	-	-	-	-
May	-	-	-	125.0	(25.0)	100.00
Jun	-	-	-	37.8	(37.8)	-
Jul	-	-	-	43.0	(43.0)	-
Aug	-	-	-	43.7	(43.7)	-
Sep	-	-	-	-	-	-

Month	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
	County Parks Usage (AF)	Total	Allocation		Allocation		Total
			M & I	Agr	M & I	Agr	
Oct	1.8	26,891.8	21,956.0	4,935.8	19,571.9	6,112.1	25,684.0
Nov	1.7	25,442.2	20,881.2	4,561.0	19,571.9	6,112.1	25,684.0
Dec	1.2	24,705.0	20,254.2	4,450.9	19,571.9	6,112.1	25,684.0
Jan	1.2	24,033.0	19,655.7	4,377.3	19,571.9	6,112.1	25,684.0
Feb	1.4	22,886.9	18,707.2	4,179.7	19,571.9	6,112.1	25,684.0
Mar	0.9	21,979.1	17,933.8	4,045.2	19,571.9	6,112.1	25,684.0
Apr	0.8	20,847.9	16,913.3	3,934.6	19,571.9	6,112.1	25,684.0
May	0.9	18,999.5	15,507.2	3,492.3	19,696.9	6,087.1	25,784.0
Jun	2.3	17,159.6	14,054.3	3,105.3	19,734.7	6,049.3	25,784.0
Jul	2.9	14,988.1	13,256.0	1,732.2	19,777.7	6,006.3	25,784.0
Aug	2.5	13,537.1	12,562.2	974.9	19,280.7	5,692.0	24,972.7
Sep	-	-	-	-	-	-	-

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **38,509.8**

# CACHUMA DAILY OPERATIONS

Month & Year: **Septembe 2020**  
 Time of Observations: **0830**      Evaporation Pan Factor: **76%**

Day	Beginning Storage: 144,000			Surface Area	Rainfall		Evaporation		CCWA Inflow	Releases					Computed Inflow	
	Elevation	Storage	Change		inches	acre-feet	inches	acre-feet		Park Diversion	South Coast	Hilton Creek	WR 89-18	Outlet		Spillway
	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	
1	735.37	143,800	(200)	2,501	-		0.150	23.8	-		62.1	11.5	120.0			17.4
2	735.20	143,376	(424)	2,496	-		0.190	30.0	-		61.4	11.6	277.0			(44.0)
3	735.04	142,977	(399)	2,490	-		0.330	52.0	-		60.9	11.5	280.0			5.4
4	734.88	142,577	(400)	2,485	-		0.240	37.8	-		79.8	11.5	285.0			14.1
5	734.72	142,178	(399)	2,479	-		0.260	40.8	-		86.4	11.5	286.0			25.7
6	734.56	141,781	(397)	2,474	-		0.360	56.4	-		91.2	11.5	292.0			54.1
7	734.41	141,411	(370)	2,469	-		0.370	57.9	-		90.7	11.4	280.0			70.0
8	734.23	140,968	(443)	2,464	-		0.360	56.2	-		91.4	11.4	291.0			7.0
9	734.07	140,550	(418)	2,459	-		0.220	34.3	-		80.1	11.4	283.0			(9.2)
10	733.90	140,156	(394)	2,454	-		0.200	31.1	-		58.1	11.4	286.0			(7.4)
11	733.75	139,786	(370)	2,449	-		0.090	14.0	-		51.5	11.4	284.0			(9.1)
12	733.62	139,466	(320)	2,445	-		0.120	18.6	-		54.6	11.3	225.0			(10.5)
13	733.52	139,223	(243)	2,442	-		0.170	26.3	-		54.2	11.3	188.0			36.8
14	733.42	138,980	(243)	2,439	-		0.170	26.3	-		46.1	11.3	176.0			16.7
15	733.32	138,737	(243)	2,436	-		0.210	32.4	-		47.7	11.3	161.0			9.4
16	733.23	138,518	(219)	2,433	-		0.220	33.9	-		58.1	11.2	149.0			33.2
17	733.13	138,275	(243)	2,430	-		0.240	36.9	-		57.6	11.3	146.0			8.8
18	733.04	138,056	(219)	2,427	-		0.240	36.9	-		58.9	11.2	141.0			29.0
19	732.95	137,837	(219)	2,424	-		0.230	35.3	-		18.3	11.2	139.0			(15.2)
20	732.85	137,594	(243)	2,421	-		0.140	21.5	-		104.5	11.2	140.0			34.2
21	732.74	137,326	(268)	2,417	-		0.340	52.1	-		71.2	11.2	139.0			5.5
22	732.64	137,083	(243)	2,414	-		0.220	33.6	-		68.3	11.2	140.0			10.1
23																
24																
25																
26																
27																
28																
29																
30																

<b>TOTALS</b>	-6917		-	-	5.070	787.9	-	-	-	1,453.1	249.8	4,708.0	-	-	281.8
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Park Usage       Rain      Yr. Total



**Santa Barbara County Parks Division,  
Cachuma Lake Recreation Area  
Summary of Aquatic Invasive Species Vessel Inspection Program  
and Early Detection Monitoring Program: **AUGUST 2020****



<b>Cachuma Lake Recreation Area Launch Data -- August 2020</b>		
<b>Vessel Data</b>		
Total Vessels Entering Park	663	
Total Vessels Launched	636	
Total Vessels Quarantined	27	
Returning (Tagged) Boats Launched	468	71%
Kayak/Canoe Launched	168	25%
4-stroke Engines	*	
2-strokes, w/CARB star ratings	*	
2-strokes, NO emissions ratings	*	
<b>Vessel Inspection Data</b>		
Total Vessels Inspected	110	
Boats Inspected	27	
Kayaks/Canoes Inspected	68	
Simple Boats Inspected	15	
Inspections Passed	104	
Inspections Failed	6	2 B, 3 K, 1 SB
<b>Quarantine Data</b>		
Total Vessels Quarantined	27	
Quarantined 7 days	*	
Quarantined 14 days	*	
Quarantined 30 days	27	
<b>Quarantine Cause</b>		
Water on vessel*	*	
Debris on hull*	*	
Plug installed*	*	
From infected county	10	
Ballast tanks*	*	
Boat longer than 24 feet*	*	
Out-of-state	0	
Unspecified*	*	
Mandatory Quarantine All Untagged Boats	27	
<b>Demographic Data</b>		
Quarantined from infected county	10	
Quarantined from SB County	17	
Quarantined from uninfected co	0	
Quarantined from out of state	0	

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, Santa Barbara County, California.  
 Inspection Date and Time: 2020.08.28; 10 a.m. to 12 p.m. PDT.  
 Method: 6 Sampling Stations; 36 meters/118 linear feet of line.  
 Surveyors: Santa Barbara County, Parks Division Employees.  
 Lake elevation: Max feet: 753.00, current 735.61; Max acre-feet: 193,305, current: 144,399;  
 Current capacity: 74.7%