

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

by Teleconference Call ONLY

Teleconference Call-in Number: 1 (888) 899-7789

Passcode: 804443#

Monday, August 24, 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. Investment of Funds
 - Financial Reports
 - Investment Reports
 - c. Review of Paid Claims
- 4. VERBAL REPORTS FROM BOARD COMMITTEES**
Receive verbal information regarding the following committee meetings:
 - Administrative Committee Meeting – July 30, 2020
- 5. BOARD DISCUSSION ON REMOTE VISUAL ACCESSIBILITY FOR BOARD MEETINGS**
Receive information and discuss options on remote visual accessibility for Board meetings
- 6. FINANCIAL REVIEW – 4TH QUARTER FISCAL YEAR 2019-20**
Action: Receive and file the 4th Quarter Fiscal Year 2019-20 Financial Review
- 7. APPOINTMENT OF REPRESENTATIVE TO CACHUMA PROJECT TRUST FUND AND RENEWAL FUND COMMITTEE AND BETTERMENT FUND USE OF FUNDS DISCUSSION**
Action: Approve Appointment of Representative by motion and roll call vote of the Board

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**
Action: Recommend approval by motion and roll call vote of the Board
9. **WATER QUALITY AND SEDIMENT MANAGEMENT STUDY PRESENTATION**
Receive information on the Water Quality and Sediment Management Study Final Report
10. **UPDATE ON SOUTH SIDE EROSION CONTROL AND REFORESTATION PROJECT AT QUIOTA CREEK CROSSING NO. 8**
Receive information on the South Side Erosion Control and Reforestation Project at Quiota Creek Crossing No. 8
11. **GENERAL MANAGER REPORT**
Receive information from the General Manager on topics pertaining to COMB, including but not limited to the following:
 - Administration
 - Virtual Meetings
12. **ENGINEER’S REPORT**
Receive information from the Engineer, including but not limited to the following:
 - Climate Conditions
 - Lake Elevation Projection
 - AWIA Emergency Response Plan
 - Infrastructure Improvement Projects / Work Plan
13. **OPERATIONS DIVISION REPORT**
Received information regarding the Operations Division, including but not limited to the following:
 - Lake Cachuma Operations
 - Operation and Maintenance Activities
14. **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
15. **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
16. **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
17. **DIRECTORS’ REQUESTS FOR AGENDA ITEMS FOR FUTURE MEETING**

18. MEETING SCHEDULE

- **September 28, 2020 at 1:00 PM**
- **Board Packages available on COMB website www.cachuma-board.org**

19. 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.

THIS PAGE INTENTIONALLY LEFT BLANK

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

by Teleconference Call ONLY

**Monday, July 27, 2020
1:00 PM**

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
--	-------------------------------------

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
Administrative (Finance, Personnel, Legal)	Director Holcombe	Director Hanson	Director Hayman
Operations	Director Sneddon	Director Holcombe	Director Hanson
Fisheries	Director Hanson	Director Hayman	Director Holcombe
Lake Cachuma Oak Tree	Director Hayman	Director Sneddon	Director Hanson
Public Outreach	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**

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

Cachuma Operation & Maintenance Board
Statement of Net Position
As of July 31, 2020

	Jul 31, 20
ASSETS	
Current Assets	
Checking/Savings	
Trust Funds	
1210 · Warren Act Trust Fund	\$ 134,545.72
1220 · Renewal Fund	10,215.61
Total Trust Funds	\$ 144,761.33
1050 · General Fund	279,936.24
1100 · Revolving Fund	185,312.07
Total Checking/Savings	610,009.64
Accounts Receivable	
1301 · Accounts Receivable	126,571.45
1320 · Quarterly Assessments Receivable	811,645.00
1325 · Bank Loan Receivable - EPFP	0.01
Total Accounts Receivable	938,216.46
Other Current Assets	
1010 · Petty Cash	500.00
1200 · LAIF	1,390,654.59
1303 · Bradbury SOD Act Assessments Receivable	201,351.00
1304 · Lauro Dam SOD Assessments Receivable	31,080.14
1400 · Prepaid Insurance	14,764.72
Total Other Current Assets	1,638,350.45
Total Current Assets	3,186,576.55
Fixed Assets	
1500 · Vehicles	475,733.27
1505 · Office Furniture & Equipment	355,185.56
1510 · Mobile Offices	97,803.34
1515 · Field Equipment	537,803.92
1525 · Paving	38,351.00
1550 · Accumulated Depreciation	(1,341,093.60)
Total Fixed Assets	163,783.49
Other Assets	
1923 · Deferred Outflow (GASB 75)	214,063.00
1910 · Long Term Bradbury SOD Act Assessment Receivable	4,478,803.07
1920 · Long Term Lauro SOD Act Assessment Receivable	804,089.14
1922 · Deferred Outflow of Resources (GASB 68)	497,820.00
Total Other Assets	5,994,775.21
TOTAL ASSETS	\$ 9,345,135.25

Cachuma Operation & Maintenance Board
Statement of Net Position
As of July 31, 2020

	Jul 31, 20
LIABILITIES & NET POSITION	
Liabilities	
Current Liabilities	
Accounts Payable	
2200 - Accounts Payable	\$ 43,469.74
Total Accounts Payable	43,469.74
Other Current Liabilities	
2510 - Accrued Expenses	29,335.96
2550 - Vacation/Sick	182,133.24
2561 - Bradbury Dam SOD Act	201,351.00
2563 - Lauro Dam SOD Act	31,080.14
2565 - Accrued Interest SOD Act	57,465.00
2567 - Loan Payable Current EPFP	434,126.11
2590 - Deferred Revenue	144,761.33
Total Other Current Liabilities	1,080,252.78
Total Current Liabilities	1,123,722.52
Long Term Liabilities	
2602 - Long Term SOD Act Liability-Bradbury	4,478,793.07
2603 - Long Term SOD Act Liability - Lauro	804,089.14
2604 - OPEB Long Term Liability	5,384,212.00
2605 - Loan Payable Principal - EPFP	16,503.48
2610 - Net Pension Liability (GASB 68)	1,732,868.00
2611 - Deferred Inflow of Resources (GASB 68)	141,294.00
Total Long Term Liabilities	12,557,759.69
Total Liabilities	13,681,482.21
Net Position	
3000 - Opening Balance Net Position	(5,296,580.05)
3901 - Retained Net Assets	202,945.55
Net Income	757,287.54
Total Net Position	(4,336,346.96)
TOTAL LIABILITIES & NET POSITION	\$ 9,345,135.25

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

	Fisheries				Operations				TOTAL			
	Jul 20	Budget	\$ Over / (Under) Budget	% of Budget	Jul 20	Budget	\$ Over / (Under) Budget	% of Budget	Jul 20	Budget	\$ Over / (Under) Budget	% of Budget
Income												
3000 REVENUE												
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%
3010 - Interest Income	0.00				5,148.84				5,148.84	0.00	5,148.84	100.0%
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%
Total 3000 REVENUE	\$ 281,742.00	\$ 1,357,600.00	\$ (1,075,858.00)	20.75%	\$ 787,059.84	\$ 3,806,921.00	\$ (3,019,861.16)	20.67%	\$ 1,068,801.84	\$ 5,164,521.00	\$ (4,095,719.16)	20.7%
Expense												
3100 - LABOR - OPERATIONS	\$ -	\$ -	\$ -	\$ -	\$ 68,652.03	\$ 1,010,140.00	\$ (941,487.97)	6.8%	\$ 68,652.03	\$ 1,010,140.00	\$ (941,487.97)	6.8%
3200 VEH & EQUIPMENT												
3201 - Vehicle/Equip Mtce	0.00				3,844.73	35,000.00	-31,155.27	10.99%	3,844.73	35,000.00	-31,155.27	10.99%
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				0.00	10,000.00	-10,000.00	0.0%	0.00	10,000.00	-10,000.00	0.0%
Total 3200 VEH & EQUIPMENT	0.00				3,844.73	75,000.00	-71,155.27	5.13%	3,844.73	75,000.00	-71,155.27	5.13%
3300 - CONTRACT LABOR												
3301 - Conduit, Meter, Valve & Misc	0.00				2,985.00	20,000.00	-17,015.00	14.93%	2,985.00	20,000.00	-17,015.00	14.93%
3302 - Buildings & Roads	0.00				0.00	20,000.00	-20,000.00	0.0%	0.00	20,000.00	-20,000.00	0.0%
3303 - Reservoirs	0.00				997.79	60,000.00	-59,002.21	1.66%	997.79	60,000.00	-59,002.21	1.66%
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%
Total 3300 - CONTRACT LABOR	0.00				3,982.79	130,000.00	-126,017.21	3.06%	3,982.79	130,000.00	-126,017.21	3.06%
3400 - MATERIALS & SUPPLIES												
3401 - Conduit, Meter, Valve & Misc	0.00				1,075.84	65,000.00	-63,924.16	1.66%	1,075.84	65,000.00	-63,924.16	1.66%
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%
Total 3400 - MATERIALS & SUPPLIES	0.00				1,088.77	78,000.00	-76,911.23	1.4%	1,088.77	78,000.00	-76,911.23	1.4%
3500 - OTHER EXPENSES												
3501 - Utilities	0.00				902.45	7,000.00	-6,097.55	12.89%	902.45	7,000.00	-6,097.55	12.89%
3502 - Uniforms	0.00				2,340.21	5,000.00	-2,659.79	46.8%	2,340.21	5,000.00	-2,659.79	46.8%
3503 - Communications	0.00				323.99	15,800.00	-15,476.01	2.05%	323.99	15,800.00	-15,476.01	2.05%
3504 - USA & Other Services	0.00				237.70	4,000.00	-3,762.30	5.94%	237.70	4,000.00	-3,762.30	5.94%
3505 - Miscellaneous	0.00				673.38	11,200.00	-10,526.62	6.01%	673.38	11,200.00	-10,526.62	6.01%
3506 - Training	0.00				110.00	3,000.00	-2,890.00	3.67%	110.00	3,000.00	-2,890.00	3.67%
Total 3500 - OTHER EXPENSES	0.00				4,587.73	46,000.00	-41,412.27	9.97%	4,587.73	46,000.00	-41,412.27	9.97%
4100 - LABOR - FISHERIES	64,359.59	729,413.00	-665,053.41	8.82%	0.00				64,359.59	729,413.00	-665,053.41	8.82%
4200 - VEHICLES & EQUIP - FISHERIES												
4270 - Vehicle/Equip Mtce	1,242.55	30,000.00	-28,757.45	4.14%	0.00				1,242.55	30,000.00	-28,757.45	4.14%
4280 - Fixed Capital	0.00	15,000.00	-15,000.00	0.0%	0.00				0.00	15,000.00	-15,000.00	0.0%
4290 - Miscellaneous	0.00	2,500.00	-2,500.00	0.0%	0.00				0.00	2,500.00	-2,500.00	0.0%
Total 4200 - VEHICLES & EQUIP - FISHERIES	1,242.55	47,500.00	-46,257.45	2.62%	0.00				1,242.55	47,500.00	-46,257.45	2.62%
4220 - CONTRACT LABOR - FISHERIES												
4221 - Meters & Valves	2,221.03	3,000.00	-778.97	74.03%	0.00				2,221.03	3,000.00	-778.97	74.03%
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%
Total 4220 - CONTRACT LABOR - FISHERIES	2,221.03	23,000.00	-20,778.97	9.66%	0.00				2,221.03	23,000.00	-20,778.97	9.66%
4300 - MATERIALS/SUPPLIES - FISHERIES												

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

	Fisheries				Operations				TOTAL			
	Jul 20	Budget	\$ Over / (Under) Budget	% of Budget	Jul 20	Budget	\$ Over / (Under) Budget	% of Budget	Jul 20	Budget	\$ Over / (Under) Budget	% of Budget
4390 · Miscellaneous	111.35	7,000.00	-6,888.65	1.59%	0.00				111.35	7,000.00	-6,888.65	1.59%
Total 4300 · MATERIALS/SUPPLIES - FISHERIES	111.35	7,000.00	-6,888.65	1.59%	0.00				111.35	7,000.00	-6,888.65	1.59%
4500 · OTHER EXPENSES - FISHERIES												
4502 · Uniforms	400.58	3,500.00	-3,099.42	11.45%	0.00				400.58	3,500.00	-3,099.42	11.45%
Total 4500 · OTHER EXPENSES - FISHERIES	400.58	3,500.00	-3,099.42	11.45%	0.00				400.58	3,500.00	-3,099.42	11.45%
4999 · GENERAL & ADMINISTRATIVE												
5000 · Director Fees	0.00				834.60	12,400.00	-11,565.40	6.73%	834.60	12,400.00	-11,565.40	6.73%
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				0.00	75,000.00	-75,000.00	0.0%	0.00	75,000.00	-75,000.00	0.0%
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				586.95	33,326.00	-32,739.05	1.76%	586.95	33,326.00	-32,739.05	1.76%
5310 · Postage/Office Exp	0.00				1,207.08	5,000.00	-3,792.92	24.14%	1,207.08	5,000.00	-3,792.92	24.14%
5311 · Office Equip/Leases	0.00				396.92	9,700.00	-9,303.08	4.09%	396.92	9,700.00	-9,303.08	4.09%
5312 · Misc Admin Expenses	0.00				323.21	14,000.00	-13,676.79	2.31%	323.21	14,000.00	-13,676.79	2.31%
5313 · Communications	0.00				401.89	6,500.00	-6,098.11	6.18%	401.89	6,500.00	-6,098.11	6.18%
5314 · Utilities	0.00				934.33	9,737.00	-8,802.67	9.6%	934.33	9,737.00	-8,802.67	9.6%
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				0.00	3,000.00	-3,000.00	0.0%	0.00	3,000.00	-3,000.00	0.0%
5318 · Computer Consultant	0.00				232.98	16,500.00	-16,267.02	1.41%	232.98	16,500.00	-16,267.02	1.41%
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%
Total 4999 · GENERAL & ADMINISTRATIVE	0.00				6,025.56	230,713.00	-224,687.44	2.61%	6,025.56	230,713.00	-224,687.44	2.61%
5299 · ADMIN LABOR	0.00				68,185.02	602,068.00	-533,882.98	11.33%	68,185.02	602,068.00	-533,882.98	11.33%
5400 · GENERAL & ADMIN - FISHERIES												
5407 · Legal - FD	0.00	25,000.00	-25,000.00	0.0%	0.00				0.00	25,000.00	-25,000.00	0.0%
5410 · Postage / Office Supplies	424.52	4,000.00	-3,575.48	10.61%	0.00				424.52	4,000.00	-3,575.48	10.61%
5411 · Office Equipment / Leases	213.73	6,518.00	-6,304.27	3.28%	0.00				213.73	6,518.00	-6,304.27	3.28%
5412 · Misc. Admin Expense	69.04	7,500.00	-7,430.96	0.92%	0.00				69.04	7,500.00	-7,430.96	0.92%
5413 · Communications	216.41	4,455.00	-4,238.59	4.86%	0.00				216.41	4,455.00	-4,238.59	4.86%
5414 · Utilities	503.10	5,243.00	-4,739.90	9.6%	0.00				503.10	5,243.00	-4,739.90	9.6%
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	0.00	3,000.00	-3,000.00	0.0%	0.00				0.00	3,000.00	-3,000.00	0.0%
5418 · Computer Consultant	125.45	9,000.00	-8,874.55	1.39%	0.00				125.45	9,000.00	-8,874.55	1.39%
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	449.40	6,700.00	-6,250.60	6.71%	0.00				449.40	6,700.00	-6,250.60	6.71%
5427 · Director Mileage	0.00	300.00	-300.00	0.0%	0.00				0.00	300.00	-300.00	0.0%
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	316.05	17,745.00	-17,428.95	1.78%	0.00				316.05	17,745.00	-17,428.95	1.78%
Total 5400 · GENERAL & ADMIN - FISHERIES	3,019.10	114,411.00	-111,391.90	2.64%	0.00				3,019.10	114,411.00	-111,391.90	2.64%
5499 · ADMIN LABOR-FISHERIES	17,490.51	247,776.00	-230,285.49	7.06%	0.00				17,490.51	247,776.00	-230,285.49	7.06%
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%
6000 · SPECIAL PROJECTS												
6062 · SCADA	0.00				2,314.74	150,000.00	-147,685.26	1.54%	2,314.74	150,000.00	-147,685.26	1.54%

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

	Fisheries				Operations				TOTAL			
	Jul 20	Budget	\$ Over / (Under) Budget	% of Budget	Jul 20	Budget	\$ Over / (Under) Budget	% of Budget	Jul 20	Budget	\$ Over / (Under) Budget	% of Budget
6090 · COMB Office Building	0.00				15,480.00	300,000.00	-284,520.00	5.16%	15,480.00	300,000.00	-284,520.00	5.16%
6096 · SCC Structure Rehabilitation	0.00				0.00	440,000.00	-440,000.00	0.0%	0.00	440,000.00	-440,000.00	0.0%
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				3,500.00	300,000.00	-296,500.00	1.17%	3,500.00	300,000.00	-296,500.00	1.17%
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				4,655.00	150,000.00	-145,345.00	3.1%	4,655.00	150,000.00	-145,345.00	3.1%
Total 6000 · SPECIAL PROJECTS	0.00				25,949.74	1,630,000.00	-1,604,050.26	1.59%	25,949.74	1,630,000.00	-1,604,050.26	1.59%
6200 · FISHERIES ACTIVITIES												
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	23,912.50	105,000.00	-81,087.50	22.77%	0.00				23,912.50	105,000.00	-81,087.50	22.77%
6207 · Oak Tree Restoration Program	34.04	25,000.00	-24,965.96	0.14%	0.00				34.04	25,000.00	-24,965.96	0.14%
Total 6200 · FISHERIES ACTIVITIES	37,677.82	175,000.00	-137,322.18	21.53%	0.00				37,677.82	175,000.00	-137,322.18	21.53%
6300 · HABITAT ENHANCEMENT												
6303 · Tributary Projects Support	519.20	10,000.00	-9,480.80	5.19%	0.00				519.20	10,000.00	-9,480.80	5.19%
6315 · Quiota Creek Crossing 8	632.50	0.00	632.50	100.0%	0.00				632.50	0.00	632.50	100.0%
Total 6300 · HABITAT ENHANCEMENT	1,151.70	10,000.00	-8,848.30	11.52%	0.00				1,151.70	10,000.00	-8,848.30	11.52%
7007 · INTEREST EXPENSE-EPFP	0.00				1,523.70	0.00	1,523.70	100.0%	1,523.70	0.00	1,523.70	100.0%
Total Expense	\$ 127,674.23	\$ 1,357,600.00	\$ (1,229,925.77)	9.4%	\$ 183,840.07	\$ 3,806,921.00	\$ (3,623,080.93)	4.83%	\$ 311,514.30	\$ 5,164,521.00	\$ (4,853,006.70)	6.03%
Net Surplus / Deficit	\$ 154,067.77	\$ -	\$ 154,067.77	100.0%	\$ 603,219.77	\$ -	\$ 603,219.77	100.0%	\$ 757,287.54	\$ -	\$ 757,287.54	100.0%

THIS PAGE INTENTIONALLY LEFT BLANK

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	August 24, 2020
Submitted by:	Janet Gingras

SUBJECT: Investment Report – July 31, 2020

RECOMMENDATION

The Board of Directors receive and file the Cachuma Operation and Maintenance Board Investment Report as of July 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 July 2020, is reported at 0.920%.

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		06/30/2020	\$ 1,385,505.75
(+) Deposits/Credits			5,148.84
(-) Checks/Withdrawals			-
Statement Balance		07/31/2020	\$ 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	06/30/2020	\$ 10,215.61
	(+) Deposits/Credits		-
	(-) Checks/Withdrawals		-
	Statement Balance	07/31/2020	\$ 10,215.61
American Riviera Bank Warren Act Trust Fund			
	Previous Balance	06/30/2020	\$ 124,139.72
	(+) Deposits/Credits		10,406.00
	(-) Checks/Withdrawals		-
	Statement Balance	07/31/2020	\$ 134,545.72

STATEMENT

The above statement of investment activity for the month of July, 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.



 Secretary

Cachuma Operation & Maintenance Board

Paid Claims

As of July 31, 2020

Date	Num	Name	Memo	Amount
07/09/2020	27797	ACWA-Joint Powers Insurance Authority	Workers' Compensation Program 4/1/20-6/30/20	-12,761.86
07/09/2020	27798	Void	Void	0.00
07/09/2020	27799	American Riviera Bank - Card Service	Website, Webcam, PPE, Uniforms, Supplies (Ops & Fisheries)	-2,831.50
07/09/2020	27800	Aspect Engineering Group	SCADA Upgrade - Lauro Reservoir PLC 7	-2,314.74
07/09/2020	27801	Association of Ca Water Agencies/JPIA	July Health Benefits Premium	-27,582.45
07/09/2020	27802	Big Brand Tire Company	2005 Ford F-550 - Replace 6 Worn Tires (Ops)	-2,373.36
07/09/2020	27803	Boyd & Associates	Alarm Monitoring 7/1/20-9/30/20	-82.50
07/09/2020	27804	City of Santa-Barbara	Trash / Recycling June 2020	-285.46
07/09/2020	27805	Coastal Copy, LP	Copier Maintenance - Kyocera Taskalfas 3051ci & 6052ci	-169.62
07/09/2020	27806	Cori Hayman	Director Meeting Fees June 2020	-150.00
07/09/2020	27807	Cox Communications Santa Barbara	Business Internet July 2020	-140.00
07/09/2020	27808	Culligan of Sylmar	RO Rental June 2020	-29.95
07/09/2020	27809	Famcon Pipe & Supply	South Coast Conduit Lower Reach Lateral Structures - Materials	-3,023.25
07/09/2020	27810	Fisher Scientific	Lake Cachuma Water Quality - Sampling & Testing Supplies	-146.16
07/09/2020	27811	Flowers & Associates, Inc.	South Coast Conduit Lower Reach Lateral Structures - Engineering Services	-4,655.00
07/09/2020	27812	Frontier Communications	Phone Service - North Portal	-62.24
07/09/2020	27813	Frontier Communications	Phone Service - Alarm, Fax, Modem, Board Room	-191.26
07/09/2020	27814	Gibbs Truck Centers	Water Truck Repair (Fisheries)	-2,476.06
07/09/2020	27815	Harrison Hardware	Supplies (Fisheries)	-13.72
07/09/2020	27816	HDR Engineering, Inc.	Tributary Projects Support - Engineering Services	-519.20
07/09/2020	27817	Home Depot Credit Services	Supplies (Ops)	-344.25
07/09/2020	27818	Illumina, Inc.	O. mykiss Genotyping Kits (Fisheries)	-13,731.28
07/09/2020	27819	Kristen Sneddon	Director Meeting Fees June 2020	-300.00
07/09/2020	27820	Lauren W. Hanson	Director Meeting Fees June 2020	-150.00
07/09/2020	27821	Levi H. Miller	Santa Ynez River Berm Monitoring	-1,831.38
07/09/2020	27822	Pacific Coast Jiffy Lube	2019 For F-150 & 2015 Chevy Silverado - Oil Changes (Ops)	-278.74
07/09/2020	27823	Polly Holcombe	Director Meeting Fees June 2020	-256.00
07/09/2020	27824	Premiere Global Services	Conference Calls June 2020	-26.62
07/09/2020	27825	SB Home Improvement Center	Supplies (Fisheries)	-60.83
07/09/2020	27826	Southern California Edison	Electricity - Main & Outlying Stations	-1,393.06
07/09/2020	27827	Underground Service Alert of So. Calif.	Ticket Charges & Database Fee	-155.20
07/09/2020	27828	Wright Express Fleet Services	Fleet Fuel June 2020	-2,541.18
07/09/2020	27829	Zac Gonzalez Landscaping & Tree Care	Landscape Maintenance June 2020	-480.00
07/21/2020	27830	American Riviera Bank - Card Service	Website, Uniforms, Supplies (Ops & Fisheries)	-4,187.39
07/21/2020	27831	Association of Ca Water Agencies/JPIA	August Health Benefits Premium	-29,438.79
07/21/2020	27832	ECHO Communications	Message Service July 2020	-68.00
07/21/2020	27833	Eurofins Eaton Analytical, LLC	Lake Cachuma Water Quality - Sampling	-520.00
07/21/2020	27834	Famcon Pipe & Supply	South Coast Conduit Lower Reach Lateral Structures - Materials	-40,755.15
07/21/2020	27835	Hayward Santa Barbara	Supplies (Ops)	-46.00
07/21/2020	27836	Impulse Advanced Communications	Phone Service - Main Office	-451.68
07/21/2020	27837	Los Olivos Emergency Physician	Emergency First Aid Services	-688.00
07/21/2020	27838	Makai Ocean Engineering, Inc.	Lake Cachuma Secured Pipeline Project - Professional Services	-52,515.61
07/21/2020	27839	Musick, Peeler & Garrett LLP	General Counsel June 2020	-4,830.20
07/21/2020	27840	PG&E	Electricity - North Portal & Tecolote Tunnel (Ops May & June)	-763.08
07/21/2020	27841	Southern California Edison	Electricity - Outlying Stations	-37.15
07/21/2020	27842	Sparkletts	Operations Safety	-68.81
07/21/2020	27843	Storrer Environmental Services	South Side Erosion Control & Reforestation - Nesting Bird Survey	-632.50
07/21/2020	27844	Trenchalk Network Services, Inc.	Network Support	-3,236.08
07/21/2020	27845	Trenchalk Network Services, Inc.	Operations Laptop	-892.17
07/21/2020	27846	Trenchalk Network Services, Inc.	Synology Back-Up Drive & Netgear Switch	-358.43
07/21/2020	27847	United States Geological Survey	USGS Quarterly Joint Funding Agreement 5/1/20-7/31/20	-23,912.50
07/21/2020	27848	Woodard & Curran	Lake Cachuma Water Quality Study - Professional Services	-41,919.50

Item #3c
Page 1

Paid Claims

As of July 31, 2020

<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
07/24/2020	27850	Verizon Wireless	Cellular Phone Service - May & June	-1,587.96
07/27/2020	072720A	American Riviera Bank (ARB)	EPFP Loan Payment 1 of 2	-28,123.75
07/29/2020	072720B	American Riviera Bank (ARB)	EPFP Loan Payment 2 of 2	-10,354.21
07/30/2020	27851	Atlas Performance Industries, Inc.	Deposit for Admin & Fisheries Trailer Replacements	-15,000.00
				<u>-342,646.83</u>
				<u>-341,741.83</u>

APPROVALS

Director _____

Director _____

Director _____

CACHUMA OPERATION & MAINTENANCE BOARD

Administrative Committee Meeting

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

Thursday, July 30, 2020
3:00 PM

AGENDA

Chair: Director Holcombe
Member: Director Hanson

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. Cachuma Transferred Project Works – Draft Amendatory Contract No. 14-06-200-5222RA (*for information and possible recommendation*)
4. Adjournment

NOTICE TO THE PUBLIC

Public Comment: The public is welcome to attend the meeting via teleconference call only. 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.]

THIS PAGE INTENTIONALLY LEFT BLANK

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	August 24, 2020
Prepared by:	Edward Lyons
Approved by:	Janet Gingras

SUBJECT: Board Discussion on Remote Visual Accessibility for Board Meetings

RECOMMENDATION:

The Board of Directors receive information regarding visual accessibility at COMB meetings and provide direction to staff, as appropriate.

BACKGROUND:

On March 4, 2020, Governor Newsom declared a State of Emergency and signed a series of Executive Orders addressing various aspects of the COVID-19 pandemic. Immediately thereafter, COMB began conducting its public meetings pursuant to the provisions of Governor Newsom's Executive Order Nos. N-25-20, N-29-20 and N-33-20. These Executive Orders, among other things, waived certain requirements of the Ralph M. Brown Act, California's open meetings law for local agencies. In particular, the Executive Orders authorized a legislative body to conduct its public meetings via teleconferencing and to make public meetings accessible telephonically or otherwise electronically to all members of the public seeking to attend and address the legislative body.

Since that time, COMB has conducted its public meetings telephonically (only). The agenda and meeting packet information are posted to the COMB website at least 72 hours in advance of a scheduled meeting for download and viewing. The teleconference call-in information is posted on each COMB meeting agenda. Board members, staff and members of the public are able to participate in the public meeting via a dial-in telephone number.

At a regular public meeting of the Board of Directors on July 27, 2020, Director Sneddon requested that a board discussion of visual accessibility for meetings be included in an upcoming agenda.

SUMMARY:

To assist the COMB Board with their discussion, staff has prepared the following options for Board consideration.

Option 1: Status Quo

Under this option, meeting participants would continue to use the conference call-in number to attend the public meetings. The meeting agenda and corresponding meeting packet would be made available via the COMB website. This option satisfies the requirements under Governor Newsom's Executive Orders with respect to open public meeting laws. It should be noted that COMB staff successfully negotiated a flat monthly fee of \$27 per month with its external conference call vendor for this option.

Option 2: Telephonic with Presentation Materials posted on COMB Website

Under this option, meeting participants would continue to use the conference call-in number to attend a public meeting. Should COMB staff wish to enhance a particular agenda item or memorandum with viewable materials, those materials would be posted on the COMB website as supplements to the Board packet materials. Board members and members of the public would be directed to the COMB website during a public meeting, should they wish to follow along during the specific presentation. No additional costs would be incurred with this option aside from those costs stated in Option 1.

Option 3: Virtual Meeting hosted (telephonic or webcam) via Video Conferencing Platform

Under this option, meeting attendees would access the meeting via a video conferencing platform such as GoToMeeting or Global Meet. Attendees with computer and/or webcam access would be able to log into the meeting and view any shared presentation materials via their computer. Attendees would also be able to access the meeting telephonically in the event they do not have access to a webcam or wish to remain private. Before implementing this option, special consideration should be given to issues surrounding training, stability of technology, bandwidth requirements, ADA compliance, privacy, and cyber-security concerns. The cost for this platform is \$20 - \$40 per month per host account and can vary by platform and the amount of features required. Additional one-time costs to purchase webcam equipment for staff and directors, if applicable, would be approximately \$900 - \$1,500.

Option 4: Virtual Meeting via Web Conferencing Platform.

Under this option, meeting participants would access the meeting via an online platform such as GoToWebinar or Global Meet Webcast. Under a webinar conferencing platform, only the host, the discussion panelists (i.e. Board) or the screen-shared presentation would display. Individuals without access to a computer or the internet would still be able to attend the meeting telephonically. Under this option, the host would have greater controls over attendee participation (registration, muting, polling, etc.) The cost for this platform is \$100 - \$400 per month per host account for the two referenced solutions and can vary by platform and the amount of features required. COMB would also incur additional one-time webcam equipment costs as previously stated.

DISCUSSION:

COMB is committed to operating in an open and transparent manner. COMB has complied with Governor Newsom's Executive Orders during the COVID-19 pandemic. It is therefore recommended that the Board of Directors provide direction to staff on how to proceed in conducting its upcoming public meetings.

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	August 24, 2020
Submitted by:	Edward Lyons
Approved by:	Janet Gingras

SUBJECT: Financial Review – 4th Quarter Fiscal Year 2019-20

RECOMMENDATION:

The Board of Directors receive and file the 4th Quarter Fiscal Year 2019-20 Financial Review and exhibit.

DISCUSSION:

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

Comprehensive Annual Financial Report – Fiscal Year 2018-19:

COMB's Comprehensive Annual Financial Report (CAFR) for fiscal year ending June 30, 2019 was awarded the Certificate of Achievement for Excellence in Financial Reporting by the Government Finance Officers Association of the United States and Canada (GFOA). This was the third consecutive year that COMB has received this prestigious award. The Certificate of Achievement is the highest form of recognition for excellence in the state and local government financial reporting. In order to be awarded a Certificate of Achievement, a government must publish an easily readable and efficiently organized comprehensive annual financial report. The report must satisfy both generally accepted accounting principles and applicable legal requirements.

FINANCIAL REVIEW – 4TH QUARTER FISCAL YEAR 2019-20:

Revenues Assessed and Collected

- COMB assessed and collected \$1.16M in quarterly O&M Budget Assessments for the period April – June 2020.
- COMB collected \$357K in grant reimbursements from the California Department of Fish and Wildlife (CDFW) for the Quiota Creek Crossing No. 8 project.
- COMB collected \$282.7K from the Warren Act Trust Fund for Fisheries and Oak Tree Program related expenses incurred for the period December – June 2020.
- COMB collected \$115.8K in quarterly EPFP Loan Assessments related to loan repayments made on behalf of Goleta Water District and Montecito Water District pertaining to the Emergency Pumping Facility for the period January - March 2020.
- COMB collected \$5.0K in interest income for funds held with LAIF.

General and Administrative Expenses (Combined)

- General and Administrative Expenses include costs for support of all administrative functions of COMB such as: Director fees, legal expenditures, general liability and property insurance, audit fees, temporary/contract labor, utilities, IT and communications, postage and office supplies, training, education and subscriptions and miscellaneous expenses. Costs are generally allocated between Operations and Maintenance (65%) and the Fisheries Division (35%).

General and Administrative expenses of \$235.8K (52.8%) were lower than the annual budget due to lower than projected litigation expenses related to an ongoing litigation matter. The budget for this line item was decreased by \$75K for FY 2020-21.

During FY 2019-20, COMB also received an unanticipated insurance premium refund of \$39.8K from the ACWA-JPIA Liability, Property and Worker's Compensation Programs resulting from a continued low paid claims history. The budget for this line item was decreased by \$25K for FY 2020-21.

- General and Administrative Labor includes salaries, employer taxes, health insurance and retirement benefit costs for the COMB General Manager and Administrative staff. General and Administrative Labor expense of \$704.4K (82.7%) were less than budget due to a vacant position.
- **The total combined General and Administrative expenses and labor of \$940.2K (72.4%) through June were within budget.**

Operations Division Expenses

- Operation and Maintenance Labor includes salaries, employer-paid payroll taxes, health insurance and retirement benefit costs. Personnel costs of \$910.3K (95.6%) were within budget.
- Vehicles & Equipment includes funds for the purchase of fixed capital, equipment rental, vehicle and equipment maintenance, and fuel costs. Actual costs of \$76.7K (139.4%) were higher than budget due to unanticipated repairs to the COMB posi-track loader of \$12.4K and backhoe tractor of \$2.6K.
- Contract Labor contains funds for outside services and labor that cannot be supported by COMB staff such as elevator maintenance or repair, tree trimming and removal services, heavy equipment and operators' labor costs for various small projects including meter calibration and meter repair. Projects and staff assignments are reviewed by the General Manager and Operations Division Manager to control costs in this category. Actual costs of \$63.4K (67.0%) were within budget for the year.
- Materials and Supplies covers costs related to the operation and maintenance of the conduit, reservoirs, and outlying buildings and roads. Actual costs of \$79.2K (101.6%) were slightly higher than the annual budget. Notable expenses included the purchase of materials and supplies for \$55.4k related to the South Coast Conduit Rehabilitation Schedule D and E projects.
- Other Expenses includes utilities, uniforms, hazardous waste disposal, communications (phones at facilities, and cell phones for operations and maintenance), Underground Service Alerts, and employee training and certifications. Actual costs of \$40.4K (85.2%) were within budget.
- Special Projects - Board policy requires that all infrastructure improvement projects be approved through Committee and by the Board prior to commencement. Actual costs for FY 2019-20 were \$1.8M. This amount is attributed to the following projects: Sycamore Canyon Slope Stabilization (\$574.9K), South Coast Conduit (SCC) Rehabilitation Project (\$391K), Water Quality and Sediment Management Study (\$333.0K), San Jose Creek Pipe Stabilization (\$183.2K), Lake Cachuma Secured Pipeline Project (\$117.2K), SCC Lower Reach Lateral Structure Repair (\$82.9K), SCC Isolation Valve Evaluation (\$25.8K) and the storage of key components of the pumping barge (\$42K).

- **The total Operations Division expenses of \$3.7M (88.6%) for FY 2019-20 were within budget.**

Fisheries Division

- Fisheries Division Labor includes salaries, employer payroll taxes, health insurance and retirement benefit costs for the Fisheries Division Manager, two Senior Field Biologists, a Biologist Aide position, and four part-time seasonal positions. Personnel costs of \$699.6K (99.3%) were within budget.
- Vehicles & Equipment includes funds for the purchase of fixed capital, equipment rental, vehicle and equipment maintenance, and fuel costs. Annual actual costs of \$70.3K (122.3%) were higher than budget. Notable one-time expenses during FY 2019-20 included the purchase of a new budgeted fleet vehicle for \$28.9K and several unexpected major service repairs made to the International Water Truck totaling \$18.0K.
- Contract Labor contains funds for outside services/labor to support equipment calibration on flow meters, and funds for technical assistance corresponding to the operation, maintenance and performance review of completed fish passage projects. Consultant services are closely reviewed by the General Manager and Fisheries Division Manager to control costs in this category. Actual costs of \$11.8K (42.1%) were within budget for FY 2019-20. The budget for this line item was decreased by \$5K for FY 2020-21.
- Materials and Supplies includes costs for the purchase of items needed for the Fisheries Monitoring Program specifically for migration, spawning and over-summering; constructing and repairing fish migration traps and the equipment necessary to conduct snorkel and redds surveys. Actual costs of \$11.2K (160.0%) were higher than budget. Notable expenses included the purchase of a water quality probe for \$1.4K.
- Other Expenses include funds to pay for uniforms and gear for the fisheries division employees. Actual costs of \$3.0K (85.8%) were within budget.
- Fisheries Division Activities includes funding for special activities related to ongoing Cachuma Project Biological Opinion (BiOp) compliance efforts, the implementation of the Lower Santa Ynez River Fisheries Monitoring Program (FMP), GIS mapping, grants technical support, USGS Stream Gauge Program and the Oak Tree Restoration Program. The use of external consultants and the timing of expenditures can vary year-to-year based on specific program needs or as particular stream or habitat issues arise. Annual costs of \$129.1K (66.6%) were within the budget. The budget for this line item was decreased by \$14K for FY 2020-21.
- Fisheries Habitat Improvement - Board policy requires that all habitat improvement projects be approved through Committee and by the Board prior to commencement. Costs of \$1.2M (100.4%) were attributable to the Quota Creek Crossing 8 project.
- **The total Fisheries Division expenses of \$2.4M (91.9%) were within the annual budget for FY 2019-20.**

Restricted Funds and Obligations

- **Warren Act Trust Fund (Restricted Fund)** - The Warren Act Trust Fund is a requirement of the Cachuma Project Warren Act Contract negotiated between the Central Coast Water Authority (CCWA) and the Bureau of Reclamation for delivery and transport of State Water Project (SWP) water through the Cachuma Project facilities. A 1995 memorandum of understanding executed in conjunction with the Warren Act Contract established a charge of \$43 per acre-foot (AF) (\$58 initially with a \$15 service charge by Reclamation), which is not indexed. Payments are required upon delivery of SWP water to Cachuma Reservoir. CCWA makes quarterly payments to COMB based on the prior quarter's water deliveries to the lake.

COMB collected \$62.8K of Warren Act Trust Fund payments from CCWA for SWP deliveries that occurred in calendar year 2019. These funds will be reviewed by the Cachuma Project Warren Act Trust Funds Advisory Committee for use in FY 2020-21.

- **Renewal Funds (Restricted Fund)** - The Renewal Fund is a requirement of the 1995 Renewal Master Contract (executed in 1996) entered into for water conveyance from the Cachuma Project to the five Cachuma Project Member Units, which are: the Carpinteria Valley Water District, the Goleta Water District, the Montecito Water District, the City of Santa Barbara, and the Santa Ynez River Water Conservation District, Improvement District No. 1 (ID No. 1).

The Renewal Master Contract requires the payment of \$10 per acre foot of water made available by the Cachuma Project. The Renewal Fund itself is capped at \$257,100, which is related to the current annual operational yield of 25,714 AF. The aggregate amount to be deposited in the Renewal Fund at the start of each Water Year by the Cachuma Project Member Units is not to exceed an amount which bears a ratio to \$257,100, which is inverse to the ratio which the aggregate amount paid into the Warren Act Trust Fund during the immediately preceding Calendar Year bears to \$300,000.

For WY 2019-20, the amount deposited into the Renewal Fund by the Cachuma Project Member Units was zero because the amount of funds deposited into the Warren Act Trust Fund exceeded the calculation threshold.

For WY 2020-21, COMB projects that the amount to be deposited into the Renewal Fund by the Cachuma Project Member Units to be \$203,200 based on actual deliveries for 2019.

- **EPFP Bank Loan Obligation** – During fiscal year ending 2015, COMB contracted for the construction of the Emergency Pumping Facilities Project (EPFP) to provide continued delivery of water from Lake Cachuma to the COMB Member Agencies until sufficient inflow occurred and the reservoir levels returned to normal operating condition. In order to implement this large-scale project, three of the four South Coast Member Agencies agreed to finance their proportionate share through a commercial financing arrangement with the Bank of Santa Barbara, which merged with American Riviera Bank during 2016.

The Districts participating in the financing arrangement were Goleta Water District, Montecito Water District and Carpinteria Valley Water District. The City of Santa Barbara chose to fund their portion through quarterly assessments.

While COMB secured the financing of the project, the three districts participating in the debt obligation provided the guarantee for repayment of their allocated percentage.

The financing arrangement was converted to a sixty-month repayment loan as of July 25, 2016. Carpinteria Valley Water District opted to pay off their obligation in full on or about the conversion date.

COMB assesses the remaining Member Agencies at the end of each quarter, for the monthly loan payments made on their behalf during that period. As of June 30, 2020, the total combined principal outstanding for the EPFP loan obligation is approximately \$487.6K.

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

The fifteen percent obligation under the Bradbury SOD contract is \$7,605,739 and is to be repaid by annual payments over a 50-year period. COMB's payment obligation for FY 2020-21 is \$261,647. COMB assesses the Cachuma Project Member Units in accordance with their respective Cachuma Project entitlement percentages.

The fifteen percent obligation under the Lauro SOD contract is \$1,009,737 and is to be repaid by annual payments over a 50-year period. COMB's payment obligation for FY 2020-21 is

\$44,404.66. COMB assesses the COMB Member Agencies (only) in accordance with each Member Agencies' pro-rata Cachuma Project entitlement percentages.

LIST OF EXHIBITS:

- 1) Fiscal Year 2019-20 Statement of Revenue and Expenditures
- 2) Government Finance Officers Association News Release and Certificate
- 3) Quarterly Financial Review Presentation

THIS PAGE INTENTIONALLY LEFT BLANK

**Cachuma Operation & Maintenance Board
Statement of Revenues and Expenditures
July 2019 - June 2020**

	Fisheries				Operations				TOTAL			
	Jul - Jun 20	Budget	\$ Over / (Under)		Jul - Jun 20	Budget	\$ Over / (Under)		Jul - Jun 20	Budget	\$ Over / (Under)	
			Budget	% of Budget			Budget	% of Budget			Budget	% of Budget
Income												
Revenue	\$ 2,613,629.00	\$ 2,628,854.00	\$ (15,225.00)	99.4%	\$ 4,552,069.27	\$ 4,138,123.00	\$ 413,946.27	110.0%	\$ 7,165,698.27	\$ 6,766,977.00	\$ 398,721.27	105.9%
Total Income	2,613,629.00	2,628,854.00	(15,225.00)	99.4%	4,552,069.27	4,138,123.00	413,946.27	110.0%	7,165,698.27	6,766,977.00	398,721.27	105.9%
Gross Profit	2,613,629.00	2,628,854.00	(15,225.00)	99.4%	4,552,069.27	4,138,123.00	413,946.27	110.0%	7,165,698.27	6,766,977.00	398,721.27	105.9%
Expense												
General and Admin Expenses	95,965.52	197,516.00	(101,550.48)	48.6%	139,828.02	249,148.00	(109,319.98)	56.1%	235,793.54	446,664.00	(210,870.46)	52.8%
General and Admin Labor	193,106.22	240,823.00	(47,716.78)	80.2%	511,282.64	610,984.00	(99,701.36)	83.7%	704,388.86	851,807.00	(147,418.14)	82.7%
O&M Labor	-	-	-	-	910,262.31	952,164.00	(41,901.69)	95.6%	910,262.31	952,164.00	(41,901.69)	95.6%
O&M Vehicle & Equip	-	-	-	-	76,681.84	55,000.00	21,681.84	139.4%	76,681.84	55,000.00	21,681.84	139.4%
O&M Contract Labor	-	-	-	-	63,635.06	95,000.00	(31,364.94)	67.0%	63,635.06	95,000.00	(31,364.94)	67.0%
O&M Material and Supplies	-	-	-	-	79,221.97	78,000.00	1,221.97	101.6%	79,221.97	78,000.00	1,221.97	101.6%
O&M Other Expenses	-	-	-	-	40,446.12	47,500.00	(7,053.88)	85.2%	40,446.12	47,500.00	(7,053.88)	85.2%
O&M Special Projects	-	-	-	-	1,817,665.93	2,050,327.00	(232,661.07)	88.7%	1,817,665.93	2,050,327.00	(232,661.07)	88.7%
Fisheries Labor	699,621.21	704,515.00	(4,893.79)	99.3%	-	-	-	-	699,621.21	704,515.00	(4,893.79)	99.3%
Fisheries Vehicle & Equip	70,297.36	57,500.00	12,797.36	122.3%	-	-	-	-	70,297.36	57,500.00	12,797.36	122.3%
Fisheries Contract Labor	11,791.37	28,000.00	(16,208.63)	42.1%	-	-	-	-	11,791.37	28,000.00	(16,208.63)	42.1%
Fisheries Material and Supplies	11,203.22	7,000.00	4,203.22	160.0%	-	-	-	-	11,203.22	7,000.00	4,203.22	160.0%
Fisheries Other Expenses	3,002.11	3,500.00	(497.89)	85.8%	-	-	-	-	3,002.11	3,500.00	(497.89)	85.8%
Fisheries Activities	129,121.36	194,000.00	(64,878.64)	66.6%	-	-	-	-	129,121.36	194,000.00	(64,878.64)	66.6%
Fisheries Habitat Enhancement	1,201,155.27	1,196,000.00	5,155.27	100.4%	-	-	-	-	1,201,155.27	1,196,000.00	5,155.27	100.4%
Other Interest Expense - EPFP	-	-	-	-	27,636.16	-	27,636.16	100.0%	27,636.16	-	27,636.16	100.0%
Total Expense	2,415,263.64	2,628,854.00	(213,590.36)	91.9%	3,666,660.05	4,138,123.00	(471,462.95)	88.6%	6,081,923.69	6,766,977.00	(685,053.31)	89.9%
Net Surplus / (Deficit)	\$ 198,365.36	\$ -	\$ 198,365.36	100.0%	\$ 885,409.22	\$ -	\$ 885,409.22	100.0%	\$ 1,083,774.58	\$ -	\$ 1,083,774.58	100.0%

THIS PAGE INTENTIONALLY LEFT BLANK



GOVERNMENT FINANCE OFFICERS ASSOCIATION
NEWS RELEASE

FOR IMMEDIATE RELEASE

8/11/2020

For more information contact:
Michele Mark Levine, Director/TSC
Phone: (312) 977-9700
Fax: (312) 977-4806
Email: mlevine@gfoa.org

(Chicago, Illinois)—Government Finance Officers Association of the United States and Canada (GFOA) has awarded the Certificate of Achievement for Excellence in Financial Reporting to **Cachuma Operation and Maintenance Board** for its comprehensive annual financial report (CAFR) for the fiscal year ended June 30, 2019. The CAFR has been judged by an impartial panel to meet the high standards of the program, which includes demonstrating a constructive "spirit of full disclosure" to clearly communicate its financial story and motivate potential users and user groups to read the CAFR.

The Certificate of Achievement is the highest form of recognition in the area of governmental accounting and financial reporting, and its attainment represents a significant accomplishment by a government and its management.

Government Finance Officers Association (GFOA) advances excellence in government finance by providing best practices, professional development, resources, and practical research for more than 21,000 members and the communities they serve.



Government Finance Officers Association

Certificate of
Achievement
for Excellence
in Financial
Reporting

Presented to

**Cachuma Operation and Maintenance
Board, California**

For its Comprehensive Annual
Financial Report
For the Fiscal Year Ended

June 30, 2019

Christopher P. Morill

Executive Director/CEO

Cachuma Operation & Maintenance Board

Financial Review – 4th Quarter
Fiscal Year 2019-20



Financial Review

Revenues Collected – 4th Quarter

COMB O&M Budget Assessment (Apr - Jun 2020)	\$ 1,156,000
California Department of Fish and Wildlife	356,700
Warren Act Trust Fund	282,700
EPFP Loan Assessment	115,800
Interest Income	5,000
Total Revenues	\$ 1,916,200

Financial Review

	Operations			
	Jul-Jun	Annual Budget	Over / (Under) Budget (\$)	% of Budget
Revenue				
Revenue	\$ 4,552,069	\$ 4,138,123	\$ 413,946	110.0%
Expense				
General and Admin Expenses	139,828	249,148	(109,320)	56.1%
General and Admin Labor	511,283	610,984	(99,701)	83.7%
O&M Labor	910,262	952,164	(41,902)	95.6%
O&M Vehicle & Equip	76,682	55,000	21,682	139.4%
O&M Contract Labor	63,635	95,000	(31,365)	67.0%
O&M Material and Supplies	79,222	78,000	1,222	101.6%
O&M Other Expenses	40,446	47,500	(7,054)	85.2%
O&M Special Projects	1,817,666	2,050,327	(232,661)	88.7%
Other Interest Expense - EPFP	27,636		(N/A)	(N/A)
Total Expense	\$ 3,666,660	\$ 4,138,123	\$ (471,463)	88.6%
Net Surplus / (Deficit)	\$ 885,409	\$ -	\$ 885,409	100.0%

Financial Review

Fisheries

	Jul-Jun	Annual Budget	Over / (Under) Budget (\$)	% of Budget
Revenue				
Revenue	\$ 2,613,629	\$ 2,628,854	\$ (15,225)	99.4%
Expense				
General and Admin Expenses	95,966	197,516	(101,550)	48.6%
General and Admin Labor	193,106	240,823	(47,717)	80.2%
Fisheries Labor	699,621	704,515	(4,894)	99.3%
Fisheries Vehicle & Equip	70,297	57,500	12,797	122.3%
Fisheries Contract Labor	11,791	28,000	(16,209)	42.1%
Fisheries Material and Supplies	11,203	7,000	4,203	160.0%
Fisheries Other Expenses	3,002	3,500	(498)	85.8%
Fisheries Activities	129,121	194,000	(64,879)	66.6%
Fisheries Habitat Enhancement	1,201,155	1,196,000	5,155	100.4%
Total Expense	\$ 2,415,264	\$ 2,628,854	\$ (213,590)	91.9%
Net Surplus / (Deficit)	\$ 198,365	\$ -	\$ 198,365	100.0%

Financial Review

Upcoming Deliverables – Administrative Division

- **Finalize Amendatory Contract – Cachuma Transferred Project Works**
- **Complete FYE 06/30/20 CAFR Audit / Single Audit**
- **Complete FYE 06/30/20 GASB 74/75 OPEB Valuation**
- **Complete Cybersecurity Response Plan**
- **Advancement of Board Policies and Internal Procedures**

THIS PAGE INTENTIONALLY LEFT BLANK

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	August 24, 2020
Submitted by:	Janet Gingras

SUBJECT: **Appointment of Representative to Cachuma Project Trust Fund and Renewal Fund Committee and Betterment Fund Use of Funds Discussion**

RECOMMENDATION:

The Board of Directors approve the appointment of the Cachuma Operation and Maintenance Board Administrative Manager/CFO to serve as the Cachuma Member Units' representative for the Cachuma Project Trust Fund, Renewal Fund Committee and Betterment Fund use of funds discussion.

SUMMARY:

On April 14, 1996, Reclamation and the Santa Barbara County Water Agency (SBCWA) entered into the Renewal Master Contract which provides for water service from the Cachuma Project. Article 27 of the Master Contract provides that the Cachuma Member Units establish a fund (Renewal Fund) for the purpose of financing Cachuma Project related activities. Per the contract, the formula for calculating the Renewal Fund obligation has an inverse relationship to the Warren Act Trust Fund deposits which are affiliated with the amount of State Project water delivered to the federal facility (Lake Cachuma).

The amount to be deposited in the Renewal Fund by the Cachuma Member Units at the start of each Water Year is not to exceed an amount which bears a ratio to \$257,100 (\$10 per AF of full allocation), which is inverse to the ratio which the amount paid into the Warren Act Trust Fund bears to \$300,000.

Article 27 also provides that Reclamation and the Cachuma Member Units are to jointly develop a Long Term Plan and Annual Work Plans for expenditure of the Renewal Fund monies for purposes consistent with expenditures outlined in the article. Article 3.c. of the Warren Act MOU provides that the Cachuma Project Authority (CPA)(successor agency is COMB) manages and administers the Warren Act Trust Fund. Article 4 of the Warren Act MOU provides for the creation of a Trust Fund Committee, which is comprised of one representative each from Reclamation and CPA (now COMB).

Resolution No. 249, approved unanimously by the COMB Board of Directors in 1997, established the process for administration of the Cachuma Project Trust Fund and the Master Contract Renewal Fund which are merged and carried out under a single committee directing the preparation and implementation of Long Term and Annual Work Plans. The Trust Fund Committee is now referred to as the Trust Fund / Renewal Fund Committee and develops a single Long Term Plan and Annual Plans for expenditure of monies from both Funds. Further, the COMB Board shall appoint a representative to that Committee, based on recommendations from the Cachuma Member Units, and the said representative shall represent the interests of the Cachuma Member Units and shall work with the Bureau of Reclamation Committee member to develop joint Long Term and Annual Work Plans for use of the funds.

In addition to the Warren Act Trust Fund and the Renewal Fund monies, included in the Member Unit Contracts with Santa Barbara County, Article 8 (b) states that the "Water Agency shall provide \$100,000 per year during the term hereof for beneficial purposes consistent with the Water Agency Act and within the Santa Ynez River watershed and the Cachuma Project service area." Decisions relating to expenditure of these funds require concurrence by both the Water Agency and the Cachuma Member Units.

For Board consideration, it is recommended the Administrative Manager/CFO be appointed to serve as the Member Units' representative on the Warren Act Trust Fund / Renewal Fund Committee and Betterment Fund use of funds discussion.

LIST OF EXHIBITS:

1. COMB Resolution No. 249

RESOLUTION NO. 249

**A RESOLUTION OF THE BOARD OF DIRECTORS APPROVING
MANAGEMENT OF THE CACHUMA PROJECT TRUST FUND AND THE
CACHUMA MASTER CONTRACT RENEWAL FUND**

WHEREAS, the Cachuma Operation and Maintenance Board, as the successor agency following its merger with the Cachuma Project Authority (Authority), has accepted the obligations of the Authority set out in Contract No. 5-07-20-W1281, Memorandum of Understanding for the Creation of a Trust Fund ("Cachuma Project Trust Fund") between the Central Coast Water Authority and the Cachuma Project Authority and the United States of America; and

WHEREAS, the Cachuma Member Units, acting jointly, have obligations as set out in Article 27. Renewal Fund ("Cachuma Master Contract Renewal Fund") of Contract No. I75r-1802R, Contract Between the United States and Santa Barbara County Water Agency Providing for Water Service from the Project; and

WHEREAS, the Cachuma Operation and Maintenance Board, in accordance with Article 3.1. of the 1996 Amended and Restated Agreement for the Establishment of a Board of Control to Operate and Maintain the Cachuma Project, has the power to perform any and all acts necessary to carry out fully, on behalf of the Cachuma Member Units, the provisions of Contract No. I75r-1802R; and

WHEREAS, the Cachuma Member Units desire to carry out their joint obligations under the Cachuma Master Contract Renewal Fund through the Cachuma Operation and Maintenance Board;

NOW, THEREFORE, BE IT RESOLVED, that the processes for implementation and administration of the Cachuma Project Trust Fund and the Cachuma Master Contract Renewal Fund shall be merged and carried out under the process established by the Cachuma Project Trust Fund, with, to the extent permitted by Federal law and Contract Nos. 5-07-20-W1281 and I75r-1802R, a single Committee (the "Funds Committee") directing the preparation and implementation of Long Term and Annual Work Plans; and,

BE IT FURTHER RESOLVED, that the Cachuma Operation and Maintenance Board shall appoint a representative to that Committee, based on recommendations from the Cachuma Member Units, and said representative shall represent the interests of the Cachuma Member Units and shall work with the Bureau of Reclamation Committee member to develop joint Long Term and Annual Work Plans for use of the Funds; and,

BE IT FURTHER RESOLVED, that, prior to final approval at the Committee level by the Cachuma Member Units' representative, funding of water-rights related projects shall be approved by the Cachuma Conservation and Release Board (CCRB) and the Santa Ynez River Water Conservation District Improvement District No. 1 (ID No. 1), funding of Cachuma Project betterment related projects or other qualifying projects not water-rights related shall be approved by the Cachuma Operation and Maintenance Board, and funding of all projects which are both water-rights related and Cachuma Project betterment related shall be approved by the Cachuma Operation and Maintenance Board, CCRB and ID No. 1; and,

BE IT FURTHER RESOLVED, that the Cachuma Operation and Maintenance Board shall be responsible for managing the Funds accounts, that the General Manager shall have responsibility for day-to-day management and shall provide for requested administrative support. The Board of Directors shall also review and approve disbursements based on approved budgets from the Funds Committee; and,

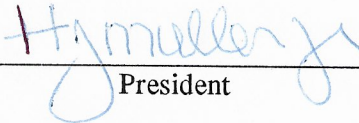
BE IT FURTHER RESOLVED, that this Resolution shall take effect immediately,

ADOPTED this 27th day of January, 1997 by the following vote:

AYES: Clarke, Langer, Mills, Muller, Roberts

NOES: None

ABSENT/ABSTAIN: None



President

ATTEST:



Secretary of the Board

comb\res_248.rev

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	August 24, 2020
Submitted by:	Janet Gingras

SUBJECT: Resolution No. 718 - Cachuma Transferred Project Works – Draft Amendatory Contract No. 14-06-200-5222RA

RECOMMENDATION:

The Board of Directors review the proposed Draft Amendatory Contract No. 14-06-200-5222RA received from the Bureau of Reclamation for the Cachuma Transferred Project Works and adopt Resolution No. 718 authorizing the COMB Board President to execute the Contract once environmental and public review processes have concluded.

SUMMARY:

COMB is responsible for diversion of water to the South Coast through the Tecolote Tunnel, and operation and maintenance of the South Coast Conduit conveyance pipeline, flow control valves, meters, and instrumentation at control stations, and turnouts along the South Coast Conduit and at four regulating reservoirs. On February 24, 1956, Reclamation, the original Member Units, and the Santa Barbara County Water Agency entered into a contract which provided for the transfer of Operation and Maintenance (O&M) of Transferred Project works to the original Member Units. The O & M contract has been amended by amendatory contracts since that time, one of which was executed with COMB as the contractor. In March 2003, Reclamation entered into a new contract with the Cachuma Operation and Maintenance Board for the operation and maintenance of the transferred project works including the Tecolote Tunnel and the South Coast Conduit system. The contract remains in effect through September 30, 2020.

On July 24, 2017, the COMB Board adopted Resolution No. 643 authorizing a letter of interest be sent to Reclamation indicating their intent to re-negotiate and renew the O&M Contract prior to the expiration date. On July 13, 2020, COMB received a draft agreement from Reclamation and provided a copy to the COMB Member Agencies for review and comment.

On July 20, 2020, COMB participated in a public contract negotiation session with Reclamation for an interim, three-year amendatory contract. Reclamation has provided COMB with the final draft amendatory contract incorporating all agreed upon revisions as discussed in the negotiation session. Reclamation posted the contract to their website on August 6, 2020 (accompanied with a press release) for a 30-day public review period. Attached for Board approval is Resolution No. 718, which if adopted, will enable the Board President to execute the contract once the administrative and environmental processes are completed.

FISCAL IMPACTS:

An emergency reserve fund, using a percentage of the three-year average of actual operation and maintenance costs, must be established over a period of ten years, which is a fiscal change from the previous requirement of a specified amount (\$100,000) for a contingency fund. Staff has asked Reclamation if available reserves at the Member Agency level will satisfy the emergency reserve fund requirement.

LEGAL CONCURRENCE:

General Counsel participated in the negotiation session and provided comments and suggested changes to the amendatory contract, most of which were incorporated in the final draft version attached.

ENVIRONMENTAL COMPLIANCE:

The NEPA process will be conducted by Reclamation and COMB will comply with the required provisions of CEQA.

COMMITTEE STATUS:

The Administrative Committee reviewed the proposed Draft Amendatory Contract No. 14-06-200-5222RA received from the Bureau of Reclamation for the Cachuma Transferred Project Works and forwards to the Board with a recommendation to adopt Resolution No. 718 authorizing the COMB Board President to execute the Contract once environmental and public review processes have concluded.

LIST OF EXHIBITS:

1. Resolution No. 718
2. Draft Amendatory Contract No. 14-06-200-5222RA

RESOLUTION NO. 718

**RESOLUTION OF THE GOVERNING BOARD OF THE
CACHUMA OPERATION & MAINTENANCE BOARD APPROVING
A CONTRACT AMENDMENT BETWEEN COMB AND THE UNITED STATES
DEPARTMENT OF THE INTERIOR, BUREAU OF RECLAMATION, FOR THE
TRANSFER OF THE OPERATION AND MAINTENANCE OF THE CACHUMA
TRANSFERRED PROJECT WORKS, AND AUTHORIZING EXECUTION
OF THE CONTRACT BY THE PRESIDENT OF THE BOARD**

WHEREAS, the Cachuma Operation & Maintenance Board (“COMB”) is a joint powers authority and public entity, organized and existing in the County of Santa Barbara in accordance with Government Code Section 6500 et seq., and operating pursuant to the 1996 Amended and Restated Agreement for the Establishment of a Board of Control to Operate and Maintain the Cachuma Project - Cachuma Operation And Maintenance Board, dated May 23, 1996 (“Amended and Restated Agreement”), as amended by an Amendment to the Amended and Restated Agreement made effective September 16, 2003; and as amended by the Second Amendment to the 1996 Amended and Restated Agreement made effective November 20, 2018 (collectively the “Joint Powers Agreement”); and

WHEREAS, the Member Agencies of COMB consist of the Goleta Water District, the City of Santa Barbara, the Montecito Water District, and the Carpinteria Valley Water District; and

WHEREAS, COMB operates and maintains Cachuma Project facilities pursuant to a Transfer of Operation and Maintenance Contract entered into with the United States Bureau of Reclamation (“Reclamation”) in 2003, including the South Coast Conduit (“SCC”) and appurtenances (the “Existing O&M Contract”). The SCC is a critical piece of infrastructure that provides for the conveyance of Cachuma Project water and State Project water to 250,000 residents on the South Coast of Santa Barbara County; and

WHEREAS, the Governing Board of the Cachuma Operation and Maintenance Board is proposing to enter into a Contract Amendment to the Existing O&M Contract with Reclamation for a term of three (3) years, expiring September 30, 2023; and

WHEREAS, it is in the best interest of COMB to enter into the Contract Amendment to the Existing O&M Contract, which is referred to as “Contract No. 14-06-200-5222RA;” and

WHEREAS, the COMB Governing Board has reviewed the terms and conditions of Contract No. 14-06-200-5222RA and has determined that they are acceptable; and

WHEREAS, adopting Resolution No. 718 provides statutory exemption from environmental review under the California Environmental Quality Act and thereby, authorizes the filing of a Notice of Exemption (“NOE”) by COMB with the Clerk of the Board of Supervisors, County of Santa Barbara.

NOW, THEREFORE, BE IT RESOLVED BY THE GOVERNING BOARD OF COMB AS FOLLOWS:

1. The Governing Board finds and determines that the facts set forth in the above recitals and in the documents referenced herein are true and correct.

2. The Governing Board authorizes the President of the Board to execute Contract No. 14-06-200-5222RA with the U.S. Department of the Interior, Bureau of Reclamation, as an Amendment to the Contract for the Transfer of the Operation and Maintenance of the Cachuma Transferred Project Works.

4. This Resolution shall take effect immediately.

PASSED, APPROVED AND ADOPTED by the Governing Board of the Cachuma Operation and Maintenance Board, this 24th day of August 2020, by the following roll call vote:

Ayes:

Nays:

Abstain:

APPROVED:

President of the Governing Board

ATTEST:

Secretary of the Governing Board

DEPARTMENT OF THE INTERIOR
BUREAU OF RECLAMATION
Cachuma Project, California

AMENDMENT TO CONTRACT FOR THE TRANSFER OF
THE OPERATION AND MAINTENANCE OF THE
CACHUMA TRANSFERRED PROJECT WORKS

Table of Contents

<u>Article No.</u>	<u>Title</u>	<u>Page No.</u>
	Preamble	1
	Explanatory Recitals	1
1.	Renewal and Revision of Contract No. 14-06-200-5222R	4
2.	Addition to Article 1 Definitions	4
3.	Replacement of Article 3 with New Language	5
4.	Deletion of Subdivision (b) of Article 4	7
5.	Deletion of Subdivision (a) of Article 5	7
6.	Replacement of Subdivision (a) Article 6 with New Language	7
7.	Replacement of Article 9 with New Language	7
8.	Addition of New Subdivision (a) of Article 10	9
9.	Replacement of Article 11 with New Language	10
10.	Replacement of Article 13 with New Language	10
11.	Replacement of Article 14 with New Language	11
12.	Replacement of Article 15 with New Language	11
13.	Deletion of Article 16 Replacement of Article 21 with New Language	13
14.	Replacement of Article 17 with New Language	13
15.	Replacement of Article 18 with New Language	14
16.	Replacement of Article 22 with New Language	14
17.	Replacement of Article 23 with New Language	15
18.	Replacement of Article 24 with New Language	17
19.	Replacement of Article 26 with New Language	17
20.	Replacement of Article 27 with New Language	18
21.	Articles 29 through 33 are Added to the Existing Contract	20
	Effective Date	21
	Signature Page	22

Exhibit C - Address for the Contractor

18 [2nd] WHEREAS, on September 12, 1949, the United States executed Contract No
19 I75r-1802, hereinafter referred to as the “Master Contract,” with the Santa Barbara County Water
20 Agency (“Agency”), which required the United States to furnish Cachuma Project water, in
21 stated quantities not to exceed 32,000 acre-feet per year in the aggregate plus surplus water, to
22 Carpinteria Valley Water District, the City of Santa Barbara, Goleta Water District, Montecito
23 Water District (Summerland Water District incorporated into Montecito Water District), and,
24 Santa Ynez River Water Conservation District Improvement District No. 1 (collectively, referred
25 to as the “Original Member Units”), with which the Agency entered into Member Unit
26 Contracts; and

27 [3rd] WHEREAS, on April 14, 1996, the United States and the Agency, for the benefit
28 of the Member Units, executed Contract No. I75r-1802R hereinafter referred to as the “Renewal
29 Master Contract,” which provided for the continued water service to the Member Units following
30 expiration of the Master Contract, No. I75r-1802, with the Agency executing Member Unit
31 renewal contracts with each Member Unit; and

32 [4th] WHEREAS, the United States has determined that the Agency and Member Units
33 to date have fulfilled all of their obligations under the Renewal Master Contract; and the United
34 States is willing to extend the Renewal Master Contract, namely, No. I75r-1802R; and

35 [5th] WHEREAS, on February 24, 1956, the United States, the Original Member Units
36 and the Agency entered into Contract No. 14-06-200-5222, hereinafter referred to as the “O&M
37 Contract,” which provides for the transfer of Operations and Maintenance of Transferred Project
38 Works to the Original Member Units; and

39 [6th] WHEREAS, the O&M Contract has been amended by Amendatory Contracts
40 dated November 5, 1971, October 3, 1978, April 28, 1988, May 12, 1995, September 24, 2001,
41 January 1, 2002, July 1, 2002 and November 1, 2002; and

42 [7th] WHEREAS, on March 1, 2003, the United States and COMB entered into a
43 renewal of the O&M Contract, No. 14-06-200-5222R, for the Transfer of the Operation and
44 Maintenance of the Cachuma Transferred Project, which are identified and described in Exhibit
45 “A” attached thereto (the “Transferred Project Works”), and hereinafter referred to as the
46 “Existing Contract;” and

47 [8th] WHEREAS, as of May 2016, the Contractor, namely, the Cachuma Operation and
48 Maintenance Board, is comprised of member agencies Carpinteria Valley Water District, City of
49 Santa Barbara, Goleta Water District and Montecito Water District; and

50 [9th] WHEREAS, the United States has determined that the Contractor to date has
51 fulfilled all of its obligations under the Existing Contract; and

52 [10th] WHEREAS, the Contractor, namely, the Cachuma Operation and Maintenance
53 Board, has requested renewal of the Existing Contract pursuant to that Contract, the Federal
54 Reclamation laws, and the laws of the State of California, for water service from the Cachuma
55 Project; and

56 [11th] WHEREAS, the United States has completed all appropriate environmental
57 review necessary to provide for execution of this Contract Amendment; and

58 [12th] WHEREAS, the United States is required to update standard articles in all new or
59 amended contracts; and

60 [13th] WHEREAS, the United States is willing to extend, through this Contract
61 Amendment, the Existing Contract, namely, No. 14-06-200-5222R, pursuant to the terms and
62 conditions set forth below.

63 NOW, THEREFORE, in consideration of the mutual and dependent covenant herein
64 contained, it is hereby mutually agreed by the parties hereto as follows:

65 **RENEWAL AND REVISION OF CONTRACT NO. 14-06-200-5222R**

66 1. Except as specifically modified by this Contract Amendment, all provisions of the
67 Existing Contract, No. 14-06-200-5222R, are renewed with the same force and effect as if they
68 were included in full text with the exception of Article 2 of the Existing Contract thereof, which
69 is revised as follows:

70 (a) Article 2 in the Existing Contract, titled TERM OF CONTRACT, is
71 amended and replaced in its entirety with the following language: “This Contract shall be
72 effective as of October 1, 2020 (Effective Date) through September 30, 2023.”

73 **ADDITION TO ARTICLE 1 DEFINITIONS**

74 2. (a) **Subdivision (f) in Article 1 of the Existing Contract is amended and**
75 **replaced in its entirety with the following new subdivision (f).**

76 (f) “Operation, Maintenance and Replacement” or “OM&R” shall mean the
77 complete normal and reasonable care, control, operation, repair, replacement, and maintenance,
78 of the Transferred Project Works, including items of work for disaster relief and assistance as
79 described in Title 44 Code of Federal Regulation (“CFR”), Subpart H, commencing with Section
80 206.220;

81 (b) **Article 1 in the Existing Contract, titled DEFINITIONS, is amended**
82 **to add the following definitions in subdivisions (g) and (h):**

83 (g) “Project” shall mean the Cachuma Project owned by the United States and
84 managed by the Department of the Interior, Bureau of Reclamation;

85 (h) “Substantial Change” shall mean a modification in, or addition to, a
86 Project facility which involves changes in the original design intent, function, and/or operational
87 parameters of the facility, or changes in Project benefits, including non-routine maintenance
88 activities that involve construction or reconstruction of a portion of the facility. These
89 modifications may be capitalized or non-capitalized. A substantial change is not a
90 characterization of the proposed action in terms of being a major or minor action as defined in
91 the National Environmental Policy Act.

92 **REPLACEMENT OF ARTICLE 3 WITH NEW LANGUAGE**

93 **3. Article 3 in the Existing Contract, titled OPERATION AND**

94 **MAINTENANCE OF PROJECT WORKS – PAYMENT OF MISCELLANEOUS COSTS,**

95 **is retitled OPERATION AND MAINTENANCE OF TRANSFERRED PROJECT**

96 **WORKS, and is amended and replaced in its entirety by the following Article 3:**

97 **OPERATION AND MAINTENANCE OF TRANSFERRED PROJECT WORKS**

98 3. (a) The Contracting Officer has transferred, and the Contractor has accepted
99 and assumed the care, OM&R of the Transferred Project Works. Title to the Transferred Project
100 Works will remain in the name of the United States, unless otherwise provided by the Congress
101 of the United States.

102 (b) The Contractor, without expense to the United States, will care for,
103 OM&R the Transferred Project Works in full compliance with the terms of this Contract and in
104 such a manner that the Project Works remain in good and efficient condition.

105 (c) Necessary repairs of the Transferred Project Works will be made promptly
106 by the Contractor. In case of unusual conditions or serious deficiencies in the OM&R of the
107 Project Works threatening or causing interruption of water service, the Contracting Officer may
108 issue to the Contractor a special written notice of those necessary repairs. Except in the case of
109 an emergency, the Contractor will be given sixty (60) days to either make the necessary repairs
110 or submit a plan for accomplishing the repairs acceptable to the Contracting Officer. In the case
111 of an emergency, or if the Contractor fails to either make the necessary repairs or submit a plan
112 for accomplishing the repairs acceptable to the Contracting Officer within sixty (60) days of
113 receipt of the notice, the Contracting Officer may cause the repairs to be made, and the cost of
114 those repairs will be paid by the Contractor as directed by the Contracting Officer.

115 (d) The Contractor will not make any Substantial Changes in the Transferred
116 Project Works without first obtaining written consent of the Contracting Officer.

117 (e) The Contractor agrees to indemnify the United States for, and hold the
118 United States and all of its representatives harmless from, all damages resulting from suits,
119 actions, or claims of any character, except for intentional torts committed by employees of the
120 United States, brought on account of any injury to any person or property arising out of any act,
121 omission, neglect, or misconduct in the manner or method of performing any construction, care,
122 operation, maintenance, supervision, examination, inspection, or other duties of the Contractor or
123 the United States on Transferred Project Works required under this Contract, regardless of who
124 performs those duties.

125 (f) The Contractor will cooperate with the Contracting Officer in
126 implementing an effective dam safety program. The United States agrees to provide the
127 Contractor and the appropriate agency of the State or States in which the Transferred Project
128 Works are located with design data, designs, and an operating plan for the dam(s) and related
129 facilities consistent with the current memorandum of understanding between the United States
130 and the State(s) of California relating to the coordination of planning, design, construction,
131 operation, and maintenance processes for dams and related facilities.

132 (g) In the event the Contractor is found to be operating the Transferred Project
133 Works or any part thereof in violation of this Contract or the Contractor is found to be failing any
134 financial commitments or other commitments to the United States under the terms and conditions
135 of this Contract, then upon the election of the Contracting Officer, the United States may take
136 over from the Contractor the care, OM&R of the Transferred Project Works by giving written
137 notice to the Contractor of such election and the effective date thereof. Thereafter, during the
138 period of operation by the United States, upon notification by the Contracting Officer the
139 Contractor will pay to the United States, annually in advance, the cost of the OM&R of the
140 Transferred Project Works as determined by the Contracting Officer. Following written
141 notification from the Contracting Officer the care, OM&R of the Transferred Project Works may
142 be transferred back to the Contractor.

143 If at any time the Contracting Officer determines that the Contractor has failed to comply with
144 any provisions of this Contract or any applicable directives issued by the Contracting Officer, the
145 Contracting Officer may, upon giving sixty (60) days advance written notice, provide the
146 Contractor an opportunity to cure and to continue with the responsibility for OM&R of all or any
147 part of the Transferred Project Works.

148 (h) In addition to all other payments to be made by the Contractor under this
149 Contract, the Contractor will pay to the United States, following the receipt of a statement from
150 the Contracting Officer, all reimbursable miscellaneous costs to be incurred by the United States
151 for unusual work involved in the administration and supervision of this Contract.

152 (i) Nothing in this Article will be deemed to waive the sovereign immunity of
153 the United States.

154 **DELETION OF SUBDIVISION (B) OF ARTICLE 4**

155 4. Subdivision (b) of Article 4 in the Existing Contract is deleted in its entirety
156 and subdivision (c) is redesignated as subdivision (b).

157 **DELETION OF SUBDIVISION (A) OF ARTICLE 5**

158 5. Subdivision (a) of Article 5 in the Existing Contract is deleted in its entirety
159 and subdivision (b) is redesignated as subdivision (a).

160 **REPLACEMENT OF SUBDIVISION (A) ARTICLE 6 WITH NEW LANGUAGE**

161 6. Subdivision (a) Article 6 in the Existing Contract, titled **ADMINISTRATION**
162 **OF FEDERAL PROJECT LANDS**, is amended and replaced by the following subdivisions
163 (a) and (b) in their entirety, with existing subdivisions (b) through (d) being redesignated as
164 subdivisions (c) through (e):

165 **ADMINISTRATION OF FEDERAL PROJECT LANDS**

166 6. (a) The lands and interests in lands acquired, withdrawn, or reserved and
167 needed by the United States for the purposes of care, operation, and maintenance of the
168 Transferred Project Works may be used by the Contractor for such purposes. The Contractor
169 shall ensure that no unauthorized encroachment occurs on Federal Project lands and rights-of-
170 way. The Contractor does not have the authority to issue any land-use agreement or grant that
171 conveys an interest in Federal real property, nor to lease or dispose of any interest of the United
172 States.

173 (b) The United States retains responsibility for compliance with the National
174 Historic Preservation Act of 1966 (“NHPA”), and the Native American Graves Protection and
175 Repatriation Act of 1990 (“NAGPRA”). The Contractor will notify the Contracting Officer and,
176 only when on tribal land, also notify the appropriate tribal official, immediately upon the
177 discovery of any potential historic properties or Native American human remains, funerary
178 objects, sacred objects, or objects of cultural patrimony.

179 **REPLACEMENT OF ARTICLE 9 WITH NEW LANGUAGE**

180 7. Article 9 in the Existing Contract, titled **EXAMINATION AND**
181 **INSPECTION OF TRANSFERRED PROJECT WORKS FOR DETERMINING**

182 **ADEQUACY OF OPERATION AND MAINTENANCE, is amended and replaced in its**

183 **entirety by the following Article 9:**

184 **EXAMINATION, INSPECTION, AND AUDIT OF TRANSFERRED PROJECT**
185 **WORKS, RECORDS, AND REPORTS FOR DETERMINING ADEQUACY OF OM&R**

186 9. (a) The Contracting Officer may examine the following: the Contractor's
187 books, records, and reports with respect to OM&R obligations under this Contract; the
188 Transferred Project Works being operated by the Contractor; the adequacy of the OM&R
189 program; the emergency reserve fund (Article 26); and the water conservation program including
190 the water conservation fund, if applicable. Notwithstanding title ownership, where the United
191 States retains a financial, physical, or liability interest in facilities either constructed by the
192 United States or with funds provided by the United States, the Contracting Officer may examine
193 any or all of the Transferred Project Works providing such interest to the United States.

194 (b) The Contracting Officer may, or the Contractor may ask the Contracting
195 Officer to, conduct special inspections of any Transferred Project Works being operated by the
196 Contractor and special audits of the Contractor's books and records to ascertain the extent of any
197 OM&R deficiencies, to determine the remedial measures required for their correction and to
198 assist the Contractor in solving specific problems. Except in an emergency, any special
199 inspection or audit shall be made only after written notice thereof has been delivered to the
200 Contractor by the Contracting Officer.

201 (c) The Contractor shall provide access to the Transferred Project Works,
202 operate any mechanical or electrical equipment, and be available to assist in the examination,
203 inspection, or audit.

204 (d) The Contracting Officer shall prepare reports based on the examinations,
205 inspections, and audits and furnish copies of such reports and any recommendations to the
206 Contractor.

207 (e) The costs incurred by the United States in conducting OM&R
208 examinations, inspections, and audits and preparing associated reports and recommendations
209 related to high- and significant-hazard dams and associated facilities shall be nonreimbursable.
210 Associated facilities include carriage, distribution, and drainage systems; pumping and pumping
211 generating plants; power plant structures; tunnels/pipelines; diversion and storage dams (low-
212 hazard); Type 2 bridges which are Reclamation-owned bridges not located on a public road;
213 regulating reservoirs (low-hazard); fish passage and protective facilities, including hatcheries;
214 river channelization features; rural/municipal water systems; desalting and other water treatment
215 plants; maintenance buildings and service yards; facilities constructed under Federal loan
216 programs (until paid out); and recreation facilities (reserved works only); and any other facilities
217 as determined by the Contracting Officer.

218 (f) Expenses incurred by the Contractor, as applicable, in participating in the
219 OM&R site examination will be borne by the Contractor.

220 (g) Requests by the Contractor for consultations, design services, or
221 modification reviews, and the completion of any OM&R activities identified in the formal
222 recommendations resulting from the examinations (unless otherwise noted) are to be funded as
223 Project OM&R and are reimbursable by the Contractor to the extent of current OM&R
224 allocations.

225 (h) Site visit special inspections that are beyond the regularly-scheduled
226 OM&R examinations conducted to evaluate particular concerns or problems and provide
227 assistance relative to any corrective action (either as a follow up to an OM&R examination or
228 when requested by the Contractor) shall be nonreimbursable.

229 (i) The Contracting Officer may provide the State of California an
230 opportunity to observe and participate in, at its own expense, the examinations and inspections.
231 The State of California may be provided copies of reports and any recommendations relating to
232 such examinations and inspections.

233 **ADDITION OF NEW SUBDIVISION (A) OF ARTICLE 10**

234 **8. Article 10 in the Existing Contract, titled RECORDS, is retitled BOOKS,**
235 **RECORDS, AND REPORTS, and subdivision (a) is amended by the addition of the**
236 **following new subdivision (a) and the existing subdivisions (a) and (b) are redesignated**
237 **subdivisions (b) and (c), and the addition of subdivision (d):**

238 **BOOKS, RECORDS, AND REPORTS**

239 10. (a) The Contractor shall establish and maintain accounts and other books and
240 records pertaining to administration of the terms and conditions of this Contract, including the
241 Contractor's financial transactions; water supply data; Project operation, maintenance, and
242 replacement logs; Project land and rights-of-way use agreements; the water users' land-use (crop
243 census), land-ownership, land-leasing, and water-use data; and other matters that the Contracting
244 Officer may require. Reports shall be furnished to the Contracting Officer in such form and on
245 such date or dates as the Contracting Officer may require. Subject to applicable Federal laws
246 and regulations, each party to this Contract shall have the right during office hours to examine
247 and make copies of the other party's books and records relating to matters covered by this
248 Contract.

249 (d) Nothing in this Article 10 shall be construed to limit or constrain the
250 ability of the Bureau of Reclamation to conduct contract compliance reviews of this Contract in
251 accordance with Reclamation Manual Directives and Standards PEC 05-08, last revised October
252 11, 2019, as may be further revised, amended, modified, or superseded.

253 **REPLACEMENT OF ARTICLE 11 WITH NEW LANGUAGE**

254 **9. Article 11 in the Existing Contract, titled RULES AND REGULATIONS, is**
255 **retitled RULES, REGULATIONS, AND DETERMINATIONS and is amended and**
256 **replaced in its entirety by the following Article 11:**

257 **RULES, REGULATIONS, AND DETERMINATIONS**

258 11. (a) The parties agree that the delivery of water or the use of Federal facilities
259 pursuant to this Contract is subject to Federal Reclamation law, as amended and supplemented,
260 and the rules and regulations promulgated by the Secretary of the Interior under Federal
261 Reclamation law.

266 **REPLACEMENT OF ARTICLE 13 WITH NEW LANGUAGE**

267 **10. Article 13 in the Existing Contract, titled CERTIFICATION OF**
268 **NONSEGREGATED FACILITIES, is amended and replaced in its entirety by the**
269 **following Article 13:**

270 **CERTIFICATION OF NONSEGREGATED FACILITIES**

271 13. The Contractor hereby certifies that it does not maintain or provide for its
272 employees any segregated facilities at any of its establishments and that it does not permit its
273 employees to perform their services at any location under its control where segregated facilities
274 are maintained. It certifies further that it will not maintain or provide for its employees any
275 segregated facilities at any of its establishments and that it will not permit its employees to
276 perform their services at any location under its control where segregated facilities are
277 maintained. The Contractor agrees that a breach of this certification is a violation of the Equal
278 Employment Opportunity clause in this Contract. As used in this certification, the term
279 "segregated facilities" means any waiting rooms, work areas, rest rooms and wash rooms,
280 restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas,
281 parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing
282 facilities provided for employees which are segregated by explicit directive or are in fact
283 segregated on the basis of race, creed, color, or national origin, because of habit, local custom,
284 disability, or otherwise. The Contractor further agrees that (except where it has obtained
285 identical certifications from proposed subcontractors for specific time periods) it will obtain
286 identical certifications from proposed subcontractors prior to the award of subcontracts

287 exceeding \$10,000 which are not exempt from the provisions of the Equal Employment
288 Opportunity clause; that it will retain such certifications in its files; and that it will forward the
289 following notice to such proposed subcontractors (except where the proposed subcontractors
290 have submitted identical certifications for specific time periods):

291 NOTICE TO PROSPECTIVE SUBCONTRACTORS OF REQUIREMENT FOR
292 CERTIFICATIONS OF NONSEGREGATED FACILITIES

293 A Certification of Nonsegregated Facilities must be submitted prior to the award of a subcontract
294 exceeding \$10,000 which is not exempt from the provisions of the Equal Employment
295 Opportunity clause. The certification may be submitted either for each subcontract or for all
296 subcontracts during a period (i.e., quarterly, semiannually, or annually). Note: The penalty for
297 making false statements in offers is prescribed in 18 U.S.C. § 1001.

298 **REPLACEMENT OF ARTICLE 14 WITH NEW LANGUAGE**

299 **11. Article 14 in the Existing Contract, titled CHANGES IN CONTRACTOR'S**
300 **ORGANIZATION, is amended and replaced in its entirety by the following Article 14:**

301 **CHANGES IN THE CONTRACTOR'S ORGANIZATION**

302 14. While this Contract is in effect, no change may be made in the Contractor's
303 service area or organization, by inclusion or exclusion of lands or by any other changes which
304 may affect the respective rights, obligations, privileges, and duties of either the United States or
305 the Contractor under this Contract including, but not limited to, dissolution, consolidation, or
306 merger, except upon the Contracting Officer's written consent.

307 **REPLACEMENT OF ARTICLE 15 WITH NEW LANGUAGE**

308 **12. Article 15 in the Existing Contract, titled CLEAN AIR AND WATER, is**
309 **amended and replaced in its entirety by the following Article 15:**

310 **CLEAN AIR AND WATER**

311 15. (a) The Contractor agrees as follows:

312 (1) To comply with all the requirements of section 114 of the Clean
313 Air Act, as amended (42 U.S.C. § 7414), and section 308 of the Clean Water Act
314 (33 U.S.C. § 1318), relating to inspection, monitoring, entry, reports, and information, as well as
315 other requirements specified in those sections, and all applicable regulations and guidelines
316 issued thereunder.

317 (2) That no portion of the work required by this Contract will be
318 performed in a facility listed on the Environmental Protection Agency List of Violating Facilities
319 on the Effective Date unless and until the Environmental Protection Agency eliminates the name

320 of such facility or facilities from such listing.

321 (3) To use its best efforts to comply with clean air standards and clean
322 water standards at the facility where the Contract work is being performed.

323 (4) To insert the substance of the provisions of this Article into any
324 nonexempt subcontract, including this subparagraph (a)(4).

325 (b) The following definitions apply for purposes of this Article:

326 (1) The term “Clean Air Act” means the Act enacted by Pub. L. 88-
327 206 of Dec. 17, 1963, and amendments thereto, as codified at 42 U.S.C. § 7401, et seq.

328 (2) The term “Clean Water Act” means the Act enacted by Pub. L. 92-
329 500 of Oct. 18, 1972, and amendments thereto, as codified at 33 U.S.C. § 1251, et seq.

330 (3) The term “clean air standards” refers to all enforceable rules,
331 regulations, guidelines, standards, limitations, orders, controls, prohibitions, and other
332 requirements which are contained in, issued under, or otherwise adopted pursuant to the Clean
333 Air Act or Executive Order 11738, an applicable implementation plan as described in
334 section 110 of the Clean Air Act (42 U.S.C. § 7410), an approved implementation procedure or
335 plan under subsection 111(c) or subsection 111(d) of the Clean Air Act (42 U.S.C. § 7411(c) or
336 (d)), or an approved implementation procedure under subsection 112(d) of the Clean Air Act
337 (42 U.S.C. § 7412(d)).

338 (4) The term “clean water standards” refers to all enforceable
339 limitations, controls, conditions, prohibitions, standards, and other requirements which are
340 promulgated pursuant to the Clean Water Act or contained in a permit issued to a discharger by
341 the Environmental Protection Agency or by a state under an approved program, as authorized by
342 section 402 of the Clean Water Act (33 U.S.C. § 1342), or by local government to ensure
343 compliance with pretreatment regulations as required by section 307 of the Clean Water Act
344 (33 U.S.C. § 1317).

345 (5) The term “comply” refers to compliance with clean air or water
346 standards. It also refers to compliance with a schedule or plan ordered or approved by a court of
347 competent jurisdiction, the Environmental Protection Agency, or an air or water pollution control
348 agency in accordance with the requirements of the Clean Air Act or Clean Water Act and
349 regulations issued pursuant thereto.

350 (6) The term “facility” means any building, plant, installation,
351 structure, mine, vessel or other floating craft, location, or site of operations owned, leased, or
352 supervised by a contractor or subcontractor to be utilized in the performance of a contract or
353 subcontract. Where a location or site of operations contains or includes more than one building,
354 plant, installation, or structure, the entire location or site shall be deemed to be a facility except
355 where the Director, Office of Federal Activities, Environmental Protection Agency, determines
356 that independent facilities are collocated in one geographical area.

357 **DELETION OF ARTICLE 16 REPLACEMENT OF ARTICLE 21 WITH NEW**
358 **LANGUAGE**

359 **13. Article 16 in the Existing Contract, titled QUALITY OF WATER, is deleted**
360 **in its entirety, and hereafter designated as “Omitted,” and Article 21, titled WATER AND**
361 **AIR POLLUTION CONTROL, is retitled PROTECTION OF WATER AND AIR**
362 **QUALITY, and is amended and replaced in its entirety by the following Article 21:**

363 **PROTECTION OF WATER AND AIR QUALITY**

364 21. (a) The Contractor, without expense to the United States, will care for,
365 operate and maintain Transferred Project Works in a manner that preserves the quality of the
366 water at the highest feasible level as determined by the Contracting Officer.

367 (b) The United States will care for, operate and maintain reserved works in a
368 manner that preserves the quality of the water at the highest feasible level as determined by the
369 Contracting Officer. The United States does not warrant the quality of the water delivered to the
370 Contractor and is under no obligation to furnish or construct water treatment facilities to
371 maintain or improve the quality of water delivered to the Contractor.

372 (c) The Contractor shall comply with all applicable water and air pollution
373 laws and regulations of the United States and the State of California; and shall obtain all required
374 permits or licenses from the appropriate Federal, State, or local authorities necessary for the
375 delivery of water by the Contractor; and will be responsible for compliance with all Federal,
376 State, and local water quality standards applicable to surface and subsurface drainage and/or
377 discharges generated through the use of Federal or Contractor facilities or Project water provided
378 by the Contractor within the Contractor’s service area.

(d) This article will not affect or alter any legal obligations of the Secretary to
provide drainage or other discharge services.

379 **REPLACEMENT OF ARTICLE 17 WITH NEW LANGUAGE**

380 **14. Article 17 in the Existing Contract, titled CHARGES FOR DELINQUENT**
381 **PAYMENTS, is amended and replaced in its entirety with the following new Article 17:**

382 17. (a) The Contractor shall be subject to interest, administrative, and penalty
383 charges on delinquent payments. If a payment is not received by the due date, the Contractor
384 shall pay an interest charge on the delinquent payment for each day the payment is delinquent
385 beyond the due date. If a payment becomes sixty (60) days delinquent, the Contractor shall pay,
386 in addition to the interest charge, an administrative charge to cover additional costs of billing and
387 processing the delinquent payment. If a payment is delinquent ninety (90) days or more, the
388 Contractor shall pay, in addition to the interest and administrative charges, a penalty charge for

389 each day the payment is delinquent beyond the due date, based on the remaining balance of the
390 payment due at the rate of six percent (6%) per year. The Contractor shall also pay any fees
391 incurred for debt collection services associated with a delinquent payment.

392 (b) The interest rate charged shall be the greater of either the rate prescribed
393 quarterly in the Federal Register by the Department of the Treasury for application to overdue
394 payments, or the interest rate of 0.5 percent per month. The interest rate charged will be
395 determined as of the due date and remain fixed for the duration of the delinquent period.

396 (c) When a partial payment on a delinquent account is received, the amount
397 received shall be applied first to the penalty charges, second to the administrative charges, third
398 to the accrued interest, and finally to the overdue payment.

399 **REPLACEMENT OF ARTICLE 18 WITH NEW LANGUAGE**

400 **15. Article 18 in the Existing Contract, titled ASSIGNMENT LIMITED –**
401 **SUCCESSORS AND ASSIGNS OBLIGATED, is amended and replaced in its entirety by**
402 **the following Article 18:**

403 **ASSIGNMENT LIMITED – SUCCESSORS AND ASSIGNS OBLIGATED**

404 18. The provisions of this Contract shall apply to and bind the successors and assigns
405 of the parties hereto, but no assignment or transfer of this Contract or any right or interest therein
406 by either party shall be valid until approved in writing by the other party.

407 **REPLACEMENT OF ARTICLE 22 WITH NEW LANGUAGE**

408 **16. Article 22 in the Existing Contract, titled COMPLIANCE WITH CIVIL**
409 **RIGHTS LAWS AND REGULATIONS, is amended and replaced in its entirety by the**
410 **following Article 22:**

411 **COMPLIANCE WITH CIVIL RIGHTS LAWS AND REGULATIONS**

412 22. (a) The Contractor shall comply with Title VI of the Civil Rights Act of 1964
413 (Pub. L. 88-352; 42 U.S.C. § 2000d), the Rehabilitation Act of 1973 (Pub. L. 93-112, Title V, as
414 amended; 29 U.S.C. § 791, et seq.), the Age Discrimination Act of 1975 (Pub. L. 94-135,
415 Title III; 42 U.S.C. § 6101, et seq.), Title II of the Americans with Disabilities Act of 1990 (Pub.
416 L. 101-336; 42 U.S.C. § 12131, et seq.), and any other applicable civil rights laws, and with the
417 applicable implementing regulations and any guidelines imposed by the U.S. Department of the
418 Interior and/or Bureau of Reclamation.

419 (b) These statutes prohibit any person in the United States from being
420 excluded from participation in, being denied the benefits of, or being otherwise subjected to

421 discrimination under any program or activity receiving financial assistance from the Bureau of
422 Reclamation on the grounds of race, color, national origin, disability, or age. By executing this
423 Contract, the Contractor agrees to immediately take any measures necessary to implement this
424 obligation, including permitting officials of the United States to inspect premises, programs, and
425 documents.

426 (c) The Contractor makes this Contract in consideration of and for the
427 purpose of obtaining any and all Federal grants, loans, contracts, property discounts, or other
428 Federal financial assistance extended after the date hereof to the Contractor by the Bureau of
429 Reclamation, including installment payments after such date on account of arrangements for
430 Federal financial assistance which were approved before such date. The Contractor recognizes
431 and agrees that such Federal assistance will be extended in reliance on the representations and
432 agreements made in this article and that the United States reserves the right to seek judicial
433 enforcement thereof.

434 (d) Complaints of discrimination against the Contractor shall be investigated
435 by the Contracting Officer's Office of Civil Rights.

436 **REPLACEMENT OF ARTICLE 23 WITH NEW LANGUAGE**

437 **17. Article 23 in the Existing Contract, titled EQUAL OPPORTUNITY, is**
438 **retitled EQUAL EMPLOYMENT OPPORTUNITY, and is amended and replaced in its**
439 **entirety by the following Article 23:**

440 **EQUAL EMPLOYMENT OPPORTUNITY**

441 23. During the performance of this Contract, the Contractor agrees as follows:

442 (a) The Contractor will not discriminate against any employee or applicant for
443 employment because of race, color, religion, sex, sexual orientation, gender identity, or national
444 origin. The Contractor will take affirmative action to ensure that applicants are employed, and
445 that employees are treated during employment, without regard to their race, color, religion, sex,
446 sexual orientation, gender identity, or national origin. Such action shall include, but not be
447 limited to the following: employment, upgrading, demotion, or transfer; recruitment or
448 recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and
449 selection for training, including apprenticeship. The Contractor agrees to post in conspicuous
450 places, available to employees and applicants for employment, notices to be provided by the
451 Contracting Officer setting forth the provisions of this nondiscrimination clause.

452 (b) The Contractor will, in all solicitations or advertisements for employees
453 placed by or on behalf of the Contractor, state that all qualified applicants will receive
454 consideration for employment without regard to race, color, religion, sex, sexual orientation,
455 gender identity, or national origin.

456 (c) The Contractor will not discharge or in any other manner discriminate
457 against any employee or applicant for employment because such employee or applicant has
458 inquired about, discussed, or disclosed the compensation of the employee or applicant or another
459 employee or applicant. This provision shall not apply to instances in which an employee who
460 has access to the compensation information of other employees or applicants as part of such
461 employee's essential job functions discloses the compensation of such other employees or
462 applicants to individuals who do not otherwise have access to such information, unless such
463 disclosure is in response to a formal complaint or charge, in furtherance of an investigation,
464 proceeding, hearing, or action, including an investigation conducted by the employer, or is
465 consistent with the Contractor's legal duty to furnish information.

466 (d) The Contractor will send to each labor union or representative of workers
467 with which it has a collective bargaining agreement or other contract or understanding, a notice,
468 to be provided by the Contracting Officer, advising the labor union or workers' representative of
469 the Contractor's commitments under Section 202 of Executive Order 11246 of
470 September 24, 1965, and shall post copies of the notice in conspicuous places available to
471 employees and applicants for employment.

472 (e) The Contractor will comply with all provisions of Executive Order No.
473 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary
474 of Labor.

475 (f) The Contractor will furnish all information and reports required by
476 Executive Order 11246 of September 24, 1965, and by the rules, regulations, and orders of the
477 Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and
478 accounts by the Contracting Agency and the Secretary of Labor for purposes of investigation to
479 ascertain compliance with such rules, regulations, and orders.

480 (g) In the event of the Contractor's noncompliance with the nondiscrimination
481 clauses of this contract or with any of such rules, regulations, or orders, this contract may be
482 canceled, terminated or suspended in whole or in part and the Contractor may be declared
483 ineligible for further Government contracts in accordance with procedures authorized in
484 Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and
485 remedies invoked as provided in Executive Order 11246 of September 24, 1965 or by rule,
486 regulation, or order of the Secretary of Labor, or as otherwise provided by law.

487 (h) The Contractor will include the provisions of paragraphs (a) through (g) in
488 every subcontract or purchase order unless exempted by the rules, regulations, or orders of the
489 Secretary of Labor issued pursuant to Section 204 of Executive Order 11246 of September 24,
490 1965, so that such provisions will be binding upon each subcontractor or vendor. The Contractor
491 will take such action with respect to any subcontract or purchase order as may be directed by the
492 Secretary of Labor as a means of enforcing such provisions, including sanctions for
493 noncompliance: *Provided, however*, that in the event the Contractor becomes involved in, or is
494 threatened with, litigation with a subcontractor or vendor as a result of such direction, the
495 Contractor may request the United States to enter into such litigation to protect the interests of
496 the United States."

497 **REPLACEMENT OF ARTICLE 24 WITH NEW LANGUAGE**

498 **18. Article 24 in the Existing Contract, titled NOTICES, is amended and**
499 **replaced in its entirety by the following Article 24:**

500 **NOTICES**

501 24. Any notice, demand, or request authorized or required by this Contract shall be
502 deemed to have been given, on behalf of the Contractor, when mailed, postage prepaid, or
503 delivered to the Area Manager, South-Central California Area Office, 1243 "N" Street, Fresno,
504 California 93721, and on behalf of the United States, when mailed, postage prepaid, or delivered
505 to the Board of Directors as listed in the attached Exhibit "C". The designation of the addressee
506 or the address may be changed by notice given in the same manner as provided in this article for
507 other notices.

508 **REPLACEMENT OF ARTICLE 26 WITH NEW LANGUAGE**

509 **19. Article 26 in the Existing Contract, titled CONTINGENCY RESERVE**
510 **FUND, is retitled EMERGENCY RESERVE FUND, and is amended and replaced in its**
511 **entirety by the following Article 26:**

512 **EMERGENCY RESERVE FUND**

513 26. (a) Commencing on the Execution Date of this Contract Amendment, the
514 Contractor shall accumulate and maintain a minimum reserve fund or demonstrate to the
515 satisfaction of the Contracting Officer that other funds are available for use as an emergency
516 reserve fund. The Contractor shall establish and maintain that emergency reserve fund to meet
517 costs incurred during periods of special stress caused by damaging droughts, storms,
518 earthquakes, floods, or other emergencies threatening or causing interruption of water service.

519 (b) The Contractor shall accumulate the reserve fund with annual deposits or
520 investments over a maximum of ten (10) years and is to be held in a Federally-insured, interest-
521 or dividend-bearing account or in securities guaranteed by the Federal Government, in the
522 California Local Agency Investment Fund, or, if approved by the Contracting Officer, in any
523 fiduciary account in a manner provided by the laws of the State of California: *Provided, That*
524 money in the reserve fund, including accrued interest, shall be available within a reasonable time
525 to meet expenses for such purposes as those identified in paragraph (d) herein. Such annual
526 deposits and the accumulation of interest to the reserve fund shall continue until the basic
527 amount of fifteen percent (15%) of the average annual actual OM&R costs incurred by the
528 Contractor for the Transferred Project Works during the three most recent Fiscal Years is
529 accumulated. Following an emergency expenditure from the fund, the annual deposits shall
530 continue from the year following the emergency expenditure until the previous balance is
531 restored. After the initial amount is accumulated or after the previous balance is restored, the

532 annual deposits may be discontinued, and the interest earnings shall continue to accumulate and
533 be retained as part of the reserve fund.

534 (c) Upon mutual written agreement between the Contractor and the
535 Contracting Officer, the basic reserve fund or the accumulated reserve fund may be adjusted to
536 account for risk and uncertainty stemming from the size and complexity of the Project; the size
537 of the annual OM&R budget; additions to, deletions from, or changes in the Transferred Project
538 Works; and OM&R costs not contemplated when this Contract was executed.

539 (d) The Contractor may make expenditures from the reserve fund only for
540 OM&R costs incurred during periods of special stress, as described in paragraph (a) herein; or
541 for meeting unforeseen extraordinary operation and maintenance costs; or for meeting unusual or
542 extraordinary repair or replacement costs; or for meeting betterment costs (in situations where
543 recurrence of severe problems can be eliminated) during periods of special stress. Proposed
544 expenditures from the fund shall be submitted to the Contracting Officer in writing for review
545 and written approval prior to disbursement. Whenever the reserve fund is reduced below the
546 current balance by expenditures therefrom, the Contractor shall restore that balance within five
547 (5) years of withdrawal by the accumulation of annual deposits which will be over and above the
548 normal annual contribution to the reserve fund.

549 (e) During any period in which any of the Transferred Project Works are
550 operated and maintained by the United States, the Contractor agrees the reserve fund shall be
551 available for like use by the United States.

552 (f) On or before October 1, of each year, the Contractor shall provide a
553 current statement of the principal and accumulated interest of the reserve fund account to the
554 Contracting Officer.

555 **REPLACEMENT OF ARTICLE 27 WITH NEW LANGUAGE**

556 **20. Article 27 in the Existing Contract, titled CONTAMINATION OR**
557 **POLLUTION OF FEDERAL PROPERTY, is amended and replaced in its entirety by the**
558 **following Article 27:**

559 **CONTAMINATION OR POLLUTION OF FEDERAL PROPERTY**

560 27. (a) The Contractor shall not allow contamination or pollution of Federal
561 Project lands, Project waters, or Project works of the United States or administered by the United
562 States and for which the Contractor has the responsibility for care, operation, and maintenance
563 by its employees or agents under this Contract. The Contractor shall also take reasonable
564 precautions to prevent such contamination or pollution by third parties.

565 (b) The Contractor shall comply with all applicable Federal, State, and local
566 laws and regulations and Reclamation policies and instructions existing, or hereafter enacted or
567 promulgated, concerning any hazardous material that will be used, produced, transported, stored,

568 released, or disposed of on or in Federal Project lands, Project waters, or Project works.

569 (c) "Hazardous material" means (1) any substance falling within the
570 definition of "hazardous substance," "pollutant or contaminant," or "hazardous waste" under the
571 Comprehensive Environmental Response, Compensation and Liability Act
572 (42 U.S.C. § 9601(14), (29), and (33)); (2) "oil," as defined by the Clean Water Act
573 (33 U.S.C. § 1321(a)) and the Oil Pollution Act (33 U.S.C. § 2701(23)); (3) thermal pollution,
574 refuse, garbage, sewage effluent, industrial waste, mine or mill tailings, mineral salts, pesticides,
575 and other solid waste, and (4) any other substance regulated as hazardous or toxic under Federal,
576 State, local or Tribal law.

577 (d) Upon discovery of any event which may or does result in contamination or
578 pollution of Federal Project lands, Project water, or the Transferred Project Works, the
579 Contractor shall immediately undertake all measures necessary to protect public health and the
580 environment, including measures necessary to contain or abate any such contamination or
581 pollution, and shall report such discovery with full details of the actions taken to the Contracting
582 Officer. Reporting shall be within a reasonable time period, but shall not exceed twenty-four
583 (24) hours from the time of discovery if it is an emergency, and the first working day following
584 discovery in the event of a non-emergency.

585 (e) If violation of the provisions of this Article occurs and the Contractor does
586 not take immediate corrective action, as determined by the Contracting Officer, the Contractor
587 may be subject to remedies imposed by the Contracting Officer, which may include termination
588 of this Contract in accordance with Article 3(g).

589 (f) The Contractor shall be liable for any response action or corrective
590 measure necessary to protect public health and the environment or to restore Federal Project
591 lands, Project waters, or the Transferred Project Works that are adversely affected as a result of
592 such violation, and for all costs, penalties or other sanctions that are imposed for violation of any
593 Federal, State, local or Tribal laws and regulations concerning hazardous material. At the
594 discretion of the Contracting Officer, the United States may also terminate this Contract in
595 accordance with Article 2(b) as a result of such violation.

596 (g) The Contractor shall defend, indemnify, protect and save the United States
597 harmless from and against any costs, expenses, claims, damages, demands, or other liability
598 arising from or relating to Contractor's violation of this Article.

599 (h) The Contracting Officer agrees to provide information necessary for the
600 Contractor, using reasonable diligence, to comply with the provisions of this Article.

601 **ARTICLES 29 THROUGH 33 ARE ADDED TO THE EXISTING CONTRACT**

602 **21. Article 29 through 33 and their respective titles are added to the Existing**
603 **Contract:**

604 **RELOCATION ASSISTANCE AND REAL PROPERTY ACQUISITION**

605 29. When acquiring land or an interest in land and relocating persons or personal
606 property in connection with the construction, operation, and maintenance of the Transferred
607 Project Works, the Contractor shall comply with the provisions of the Uniform Relocation
608 Assistance and Real Property Acquisition Policies Act of 1970 (Pub. L. 91-646; 84 Stat. 1894;
609 42 U.S.C. § 4601, et seq.) and Department of Transportation regulations at 49 C.F.R. part 24.

610 **PEST MANAGEMENT**

611 30. (a) The Contractor is responsible for complying with applicable Federal,
612 State, and local laws, rules, and regulations related to pest management in performing its
613 responsibilities under this Contract.

614 (b) The Contractor is responsible for effectively avoiding the introduction and
615 spread of, and for otherwise controlling, undesirable plants and animals, as defined by the
616 Contracting Officer, on or in the Transferred Project Works, Federal Project lands, Federal
617 Project waters, and Federal Project Works for which and to the extent that the Contractor has
618 operation and maintenance responsibility. The Contractor is responsible for exercising the level
619 of precaution necessary in meeting this responsibility, including inspecting its vehicles,
620 watercraft, and equipment for reproductive and vegetative parts, foreign soil, mud or other debris
621 that may cause the spread of weeds, invasive species and other pests, and removing such
622 materials before moving its vehicles, watercraft, and equipment onto any Federal land, into any
623 Federal Project facility waters, or out of any area on Federal Project land where work is
624 performed.

625 (c) Where decontamination of the Contractor's vehicles, watercraft, or
626 equipment is required prior to entering the Transferred Project Works, Federal Project land or
627 waters, the decontamination shall be performed by the Contractor at the point of prior use, or at
628 an approved offsite facility able to process generated cleaning wastes, pursuant to applicable
629 laws, rules, and regulations. Upon the completion of work, the Contractor will perform any
630 required decontamination within the work area before moving the vehicles, watercraft, and
631 equipment from Federal Project lands and waters.

632 (d) Programs for the control of undesirable plants and animals on the
633 Transferred Project Works, Federal Project lands, and in Federal Project waters and Federal
634 Project works for which the Contractor has operation and maintenance responsibility will
635 incorporate Integrated Pest Management ("IPM") concepts and practices. IPM refers to a
636 systematic and environmentally compatible program to maintain pest populations within
637 economically and environmentally tolerable levels. In implementing an IPM program, the
638 Contractor will adhere to applicable Federal and State laws and regulations and Department of

639 the Interior and Bureau of Reclamation policies, directives, guidelines, and manuals, including
640 but not limited to, the Department of the Interior Manual, Part 517 *Integrated Pest Management*
641 *Policy* and Part 609 *Weed Control Program*, the Plant Protection Act of June 20, 2000 (Pub. L.
642 106-224), and Executive Order 13112 of February 3, 1999.

643 MEDIUM FOR TRANSMITTING PAYMENTS

644 31. (a) All payments from the Contractor to the United States under this Contract
645 shall be by the medium requested by the United States on or before the date payment is due. The
646 required method of payment may include checks, wire transfers, or other types of payment
647 specified by the United States.

648 (b) Upon execution of the Contract, the Contractor shall furnish the
649 Contracting Officer with the Contractor's taxpayer's identification number ("TIN"). The
650 purpose for requiring the Contractor's TIN is for collecting and reporting any delinquent
651 amounts arising out of the Contractor's relationship with the United States.

652 AMENDMENT DRAFTING CONSIDERATIONS

653 32. This Contract Amendment has been negotiated and reviewed by the parties
654 hereto, each of whom is sophisticated in the matters to which this contract pertains. The double-
655 spaced Articles of this Contract Amendment have been drafted, negotiated, and reviewed by the
656 parties, and no one party shall be considered to have drafted the stated articles. Single-spaced
657 Articles are standard Articles pursuant to Bureau of Reclamation policy.

658 PRESERVATION OF EXISTING CONTRACT

659 33. Except as expressly modified by the provisions of this Contract Amendment, the
660 Existing Contract, along with all amendments to the Existing Contract, and Exhibits A and B
661 attached to the Existing Contract, shall remain in full force and effect.

662 EFFECTIVE DATE

663 This Amendment to the Existing Contract shall be effective on the date first written
664 above.

665 IN WITNESS WHEREOF, the parties hereto have executed this Contract
666 Amendment to the Existing Contract, which shall be No. 14-06-200-5222RA, on the day and
667 year first above written.

668 THE UNITED STATES OF AMERICA

669 By: _____
670 Regional Director
671 Interior Region 10: California-Great Basin
672 Bureau of Reclamation

673 CACHUMA OPERATION AND
674 MAINTENANCE BOARD

675 By: _____
676 President, Board of Directors

677 ATTEST:

678 By: _____
679 Secretary of the Board of Directors

EXHIBIT C

Contractor:

Cachuma Operation and Maintenance Board
3301 Laurel Canyon Road
Santa Barbara, California 93105
Electronic Address: Administration@cachuma-board.org
Facsimile number: (805) 569-5825

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	August 24, 2020
Submitted by:	Joel Degner
Approved by:	Janet Gingras

SUBJECT: Lake Cachuma Water Quality and Sediment Management Study

Recommendation

The Board receive a presentation on the Lake Cachuma Water Quality and Sediment Management Study completed by consultants Woodard & Curran and Limnotech.

Summary

This memorandum provides a summary of Lake Cachuma Water Quality and Sediment Management Study (WQSMS) based on excerpts from the study. The study was initiated in October 2018 by the consultant team of Woodard & Curran and Limnotech and completed in August 2020.

Background

The purpose of the Water Quality and Sediment Management Study (WQSMS) is to understand and address issues of water quality and sedimentation at Lake Cachuma, through coordination with the broad range of stakeholders that manage, operate, and use Lake Cachuma. Ultimately, the goal of the WQSMS is to identify viable and actionable solutions that can be incorporated into a long-term program for water quality and sediment management throughout the Upper Santa Ynez River watershed and Cachuma Reservoir.

The WQSMS was completed through a technical team that consists of COMB and COMB Member Agency staff, and the consultant team of Woodard & Curran and LimnoTech. The project was conducted in two parts. Part 1 consisted of identifying management goals, collecting data, characterizing and prioritizing issues, identifying data gaps and developing a sampling and monitoring program. Part 2 involved identifying management actions and developing a long-term roadmap to manage water quality and sediment in the watershed. Throughout the entire process, the consultant team engaged with COMB and COMB Member Agencies through a series of Technical Review Meetings. These four Technical Review Meetings identified the goals of the WQSMS, characterized issues, identified data gaps, and assessed management actions.

Management Goals

The following Water Management Goals were identified by the technical team of COMB and its Member Agencies to guide the process of developing the WQSMS:

- Increase knowledge about the dynamics and sources of Total Organic Carbon (TOC) and monitor and manage TOC
- Increase knowledge about the dynamics and sources of sediment and monitor and manage sedimentation (including turbidity)
- Monitor and manage algal blooms and sample and monitor phosphorus
- Consistently maintain projects and execute management actions to proactively (or retroactively, with a plan) address Tier 2 and Tier 3 issues.

Issue Identification and Clarification

Issues relevant to Lake Cachuma were identified, and then prioritized by COMB and Member Agencies. The issues were divided into three tiers: Tier 1, Tier 2, and Tier 3 based on severity, Tier 1 consisting of higher priority issues and Tier 3 consisting of lower priority issues.

Tier 1 Issues

- Total Organic Carbon
- Algal Blooms
- Turbidity
- Sedimentation

Tier 2 Issues

- Invasive Species (Vegetation)
- Debris Loads
- Constituents of Concern for Aquifer Recharge Projects
- State Water Project Water Quality

Tier 3 Issues

- Fish Populations in the Lake
- Invasive Species (Non-Vegetation)
- Cloud Seeding

Sample and Monitoring Program

To obtain more data to successfully characterize the issues in Lake Cachuma, the consultant team developed a series of sampling and monitoring recommendations. Short-term monitoring recommendations were communicated to COMB in April 2019 to gain more information for the study. COMB staff completed additional sampling based on those recommendations in 2019 and 2020.

A Long-Term Sampling and Monitoring Plan was developed as part of the WQSMS. The plan is designed to provide ongoing monitoring of water quality conditions and to expand understanding of the drivers of identified issues in Lake Cachuma in order to achieve the Water Management Goals.

The sampling and monitoring recommendations are designed to address the remaining questions for Tier 1 priority issues and work towards attainment of Water Management Goals. Sampling and monitoring activities are grouped by the following categories:

1. Ongoing Routine Monitoring
2. Supplemental Special Studies
3. Response to Extreme Events (Fires and algal blooms)

Modeling Assessment

The Long-term Sampling and Monitoring Plan identified the development of a water quality model as a Supplemental Special Study. A model could be developed to provide a detailed understanding of water quality in Lake Cachuma and the ability to make projections about water quality under different future scenarios. Based on our knowledge of the issues facing water quality management and the goals of Lake Cachuma stakeholders at the time, the consultant team recommends investment in a watershed and lake water quality model development process. A lake water quality model would provide the necessary framework to understand complex hydrodynamics and water quality that can cause algal growth, TOC production, and sedimentation, all key issues related to the management of Lake Cachuma.

Evaluation of Management Practices

The consultant team recommends that the management of Lake Cachuma proceed as an adaptive management and planning process. Adaptive management is an iterative and flexible framework that improves a resource (or set of resources) over time by learning from management outcomes and modifying future responses accordingly. The steps of the framework include a condition analysis, goal setting, an evaluation of actions, implementation, monitoring and evaluation, reassessing, and then adaptively

managing. Adaptive management is achieved by routinely evaluating monitoring data and the lake's response to implemented actions at pre-determined interim milestones and adjusting management practices as needed. Through holistic, adaptive management, a combination of watershed and in-lake management actions may be required to improve and protect water quality in Lake Cachuma.

In the early stages of this project, the consultant team compiled a comprehensive list of in-lake and watershed management actions that may be applicable for Lake Cachuma. Following the final data analysis and condition assessment, the consultant team critically evaluated the remaining actions for applicability and value. Considerable uncertainty remains regarding the sources of pollutants and associated spatial and temporal responses to those pollutants. For lake issues that are well understood, protection and restoration of a reservoir of this scale will require a logically-implemented combination of strategies and actions that directly target those issues. For issues that are less understood (e.g., tributary nutrient loadings vs. in-lake generation), it is important to acknowledge that more data gathering and evaluation are needed before some lake management actions (particularly the more expensive ones) should be recommended. Increasing certainty about the particular drivers of water quality is critically important to appropriately direct funds and resources towards effective restoration activities.

The sampling and monitoring plan implemented through this study is designed to fill in gaps in understanding for drivers of the identified issues in Lake Cachuma and guide planning for emergency response to extreme events (e.g., wildfires and harmful algal blooms). Implementing the monitoring activities and supplemental studies to better understand water quality drivers is a critical component of reservoir management and is necessary to determine solutions for protection and restoration of Lake Cachuma. The consultant team developed a phased approach to adaptively manage Lake Cachuma which incorporates three types of actions: (1) those that have been implemented, (2) actions recommended for near-term implementation, and (3) actions that may be applicable in the future pending outcomes from near-term action implementation.

Actions recommended in each of the phases are designed to meet the established water management goals of increasing understanding of the primary issues in Lake Cachuma. Following continued implementation of Phase 1 and implementation of Phase 2 actions (presumably in the next 1-2 years), an intensive evaluation of the new data and information is necessary to confirm direction towards Phase 3 actions. In addition, following implementation of one or more of Phase 3 actions, success of those actions to mitigate the identified issues should be intensively evaluated through assessment of the ongoing routine data. The consultant team recommends comprehensive assessment of ongoing routine data in a minimum of 3-year intervals in order to assess the lake's condition and reassess and adaptively manage the lake over time. Through holistic, adaptive management, a combination of watershed and in-lake management actions can be tailored to effectively improve and protect water quality in Lake Cachuma.

Phase 1 Management Actions: Underway or Completed

The Phase 1 category describes management actions that have recently been implemented or are currently being implemented and include the following:

- Development of Water Quality and Sediment Study. A diagnostic study to assess existing data, plan for filling in data gaps, identification of primary issues and goal setting is critical for lake management planning.
- Utilization of HAB Satellite Analysis Tool. Ongoing monitoring remote satellite sensors using SFEI's Cyanobacteria Index (<https://fhab.sfei.org/>). This is a screening-level tool that provides risk thresholds for the probability of a water body developing a cyanobacteria bloom based on satellite reflectivity data. This does not indicate whether toxins are present but provides early-warning indicators that a bloom may be imminent and that in situ monitoring for bloom conditions and the presence of toxins is needed.
- Development of erosion control measures with Caltrans for projects in the vicinity of Lake Cachuma.
- Purchase and utilization of hand-held sonde (YSI EXO-2) to measure in situ Chl-a and phycocyanin to supplement laboratory analyses and the HAB Satellite Analysis Tool.

- Implementation of real-time monitoring buoy for in situ Chl-a, phycocyanin, turbidity, temperature, and other water quality parameters.
- Expanded routine monitoring as part of Sampling and Monitoring Plan.
- Identification and utilization of lab resources to reliably provide Chl-a, algae, and toxin measurements.
- Development of OPTI database to store and manage water quality data.

Phase 2: Management Actions: Near-Term Implementation

The Phase 2 category includes actions that are recommended for near-term implementation and that are supported by existing data and/or water quality management goals to increase knowledge. Phase 2 recommendations are intended to work towards water management goals of increasing knowledge about the source and dynamics of identified issues to manage the issues most effectively.

- Implement Routine Monitoring Plan
- Determine external loads for TOC, phosphorus (P) and nitrogen (N) through additional tributary sampling and flow monitoring
- Measure mass of P in sediments and rates of sediment P flux by collecting intact sediment cores from multiple representative locations
- Develop and apply a water quality model that could: a) quantify the magnitude of external and internal loads; a) predict algal dynamics and identify which conditions most likely cause blooms; c) determine N and P target thresholds to limit algal growth; and d) understand hydrodynamic forces within Lake Cachuma.
- Determine predominant source of TOC (i.e., terrestrial vs. in-lake/algal) and seasonal variability by a combination of isotopic analyses, carbon:nitrogen ratios, specific ultraviolet absorbance, and/or fluorescence spectroscopy.
- Conduct fish surveys to determine density of Carp and general condition of the fisheries community
- Update bathymetry survey
- Conduct shoreline erosion assessment
- Removal of aquatic invasive vegetation
- North Portal Intake Tower Gate 5 Extension with Secured Pipeline – which is currently in the design phase for COMB.

Phase 3 Management Actions: Long-term Actions / Dependent on Future Data

The Phase 3 category of management actions includes large-scale remedies that target specific areas of the lake and/or seek to reduce specific mechanisms that are contributing to water quality problems. These actions have been implemented elsewhere with documented success to remedy some of the Tier 1 issues. Given the scale and cost of these actions, additional data collection and supplemental study is warranted to confidently determine the feasibility of these actions to mitigate the specific issues in Lake Cachuma. These actions are to be considered in detail through feasibility studies pending additional data collection and knowledge gained about the drivers of specific issues. A roadmap decision-tree were developed as part of the study

- **Hypolimnetic aeration/oxygenation** - Mechanical system that aerates or oxygenates bottom waters to prevent or mitigate anoxia and reduces P flux from sediments and reduced compounds.

- **Phosphorous inactivation using chemical coagulants** - Chemical application to the lake with a compound that binds with phosphorus in the water column and phosphorus diffusing from sediments
- **Sediment Dredging** - Physical removal of sediments in pre-determined locations at prescribed depths.. Sediment physical and chemical characterization, environmental permitting requirements, and appropriate disposal options need to be considered. A detailed bathymetry survey will also be required.
- **Physical Removal of Carp** -Benthic disturbance by Carp can be a significant driver of internal P loading and may be contributing to increased TOC and turbidity in Lake Cachuma.. Large-scale physical removal of Carp may be warranted if population density exceeds 40 kg/ha.
- **Biomanipulation of fish community** - Additional stocking of predatory fish that consume planktivorous fish is a common biomanipulation approach. Appropriateness of this action and the approach depends on the fish surveys collected in Phase 2 and the action having a neutral or positive impact to the endangered species downstream of Lake Cachuma. Biomanipulation typically requires ongoing maintenance and must be used in conjunction with other nutrient reduction and control strategies for sustained improvements in water quality.
- **Shoreline stabilization/erosion control** - Based on the shoreline assessment in Phase 2, actively eroding shoreline areas may need to be stabilized.
- **Watershed Management Plan** - External loading of TOC, nutrients and sediments will likely be a persistent management challenge for Lake Cachuma. Given the size of the watershed and various management entities responsible for watershed management, a stakeholder-driven process to develop a plan to reduce TOC and nutrient loads from point and nonpoint sources would be beneficial. A watershed model or other decision-support tool could help to guide decision-making on strategic implementation of best management practices in the watershed. Decision-support tools should include emergency action planning to reduce response time, minimize impacts, and improve data collection associated with fire, flooding, and other critical/extreme events.

List of Exhibits:

1. Presentation on the Lake Cachuma Water Quality and Sediment Management Study

THIS PAGE INTENTIONALLY LEFT BLANK



Lake Cachuma Water Quality and Sediment Management Study

COMB Board Meeting

August 24, 2020

Brian Dietrick - *Woodard & Curran*

Dendy Lofton - *LimnoTech*



Agenda

- Welcome and Introduction
- Study Overview
 - Appendix A: Data Log
- Appendix B: Sampling and Monitoring Plan
- Appendix C: Modeling Assessment
- Appendix D, E, F: Recommended Management Actions
- Wrap up and Thank You

Overview

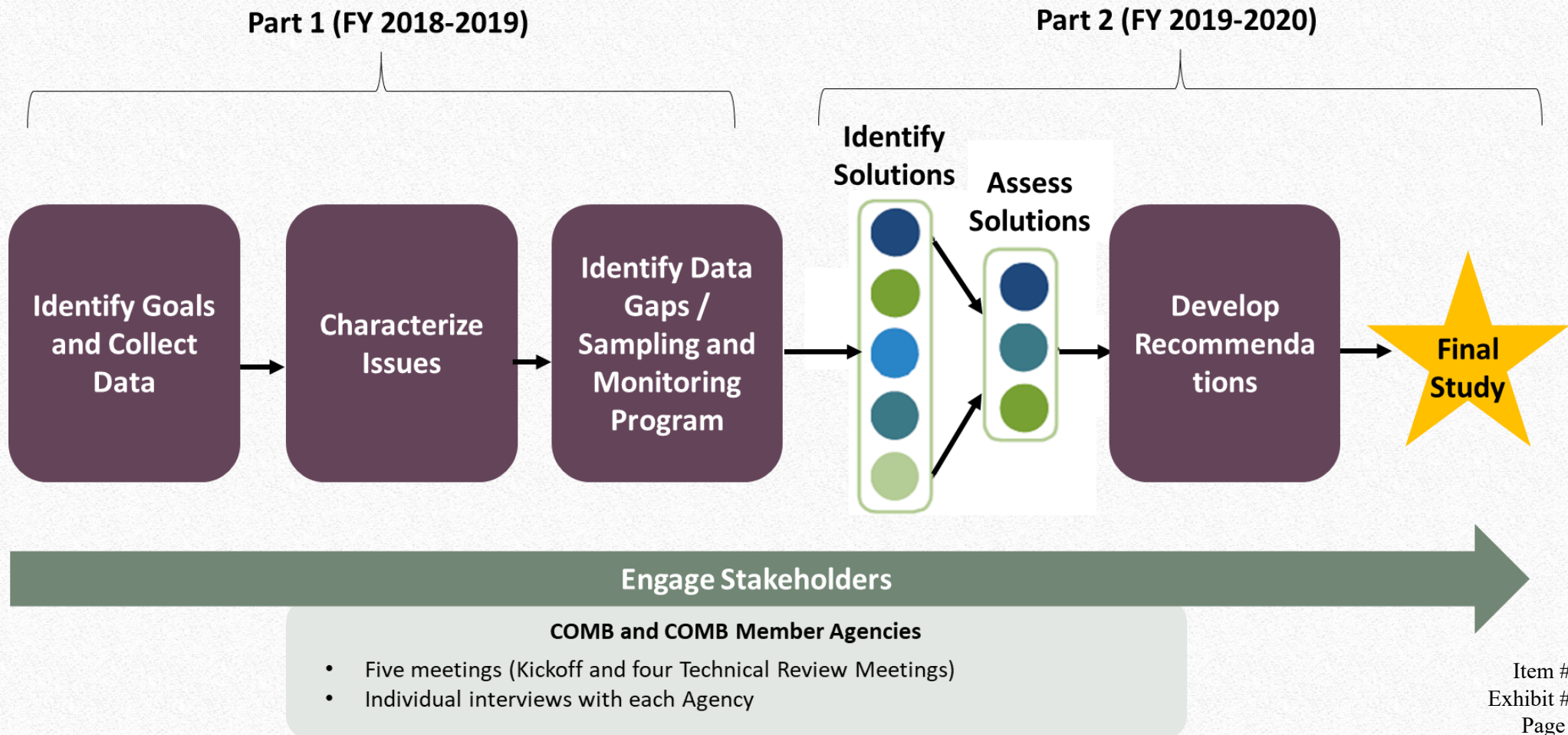
- Study began in October 2018
- Water Quality and Sediment Management Study recently finalized
- OPTI Data Management System created for the project
- Engaged COMB member agencies to identify top water management issues and develop recommendations to address these issues
- Fee: \$418,668



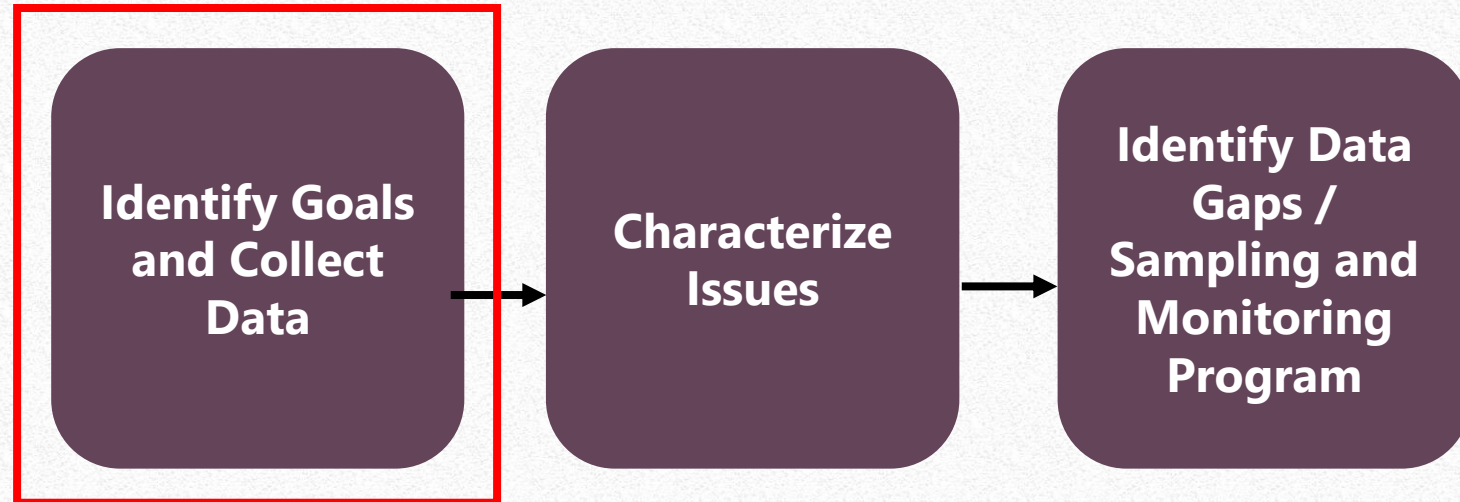
Agenda

- Welcome and Introduction
- Study Overview
 - Appendix A: Data Log
- Appendix B: Sampling and Monitoring Plan
- Appendix C: Modeling Assessment
- Appendix D, E, F: Recommended Management Actions
- Wrap up and Thank You

The Study was completed over a two-year period.



The Study began by establishing agreement on goals and collecting existing data.



Engage Stakeholders

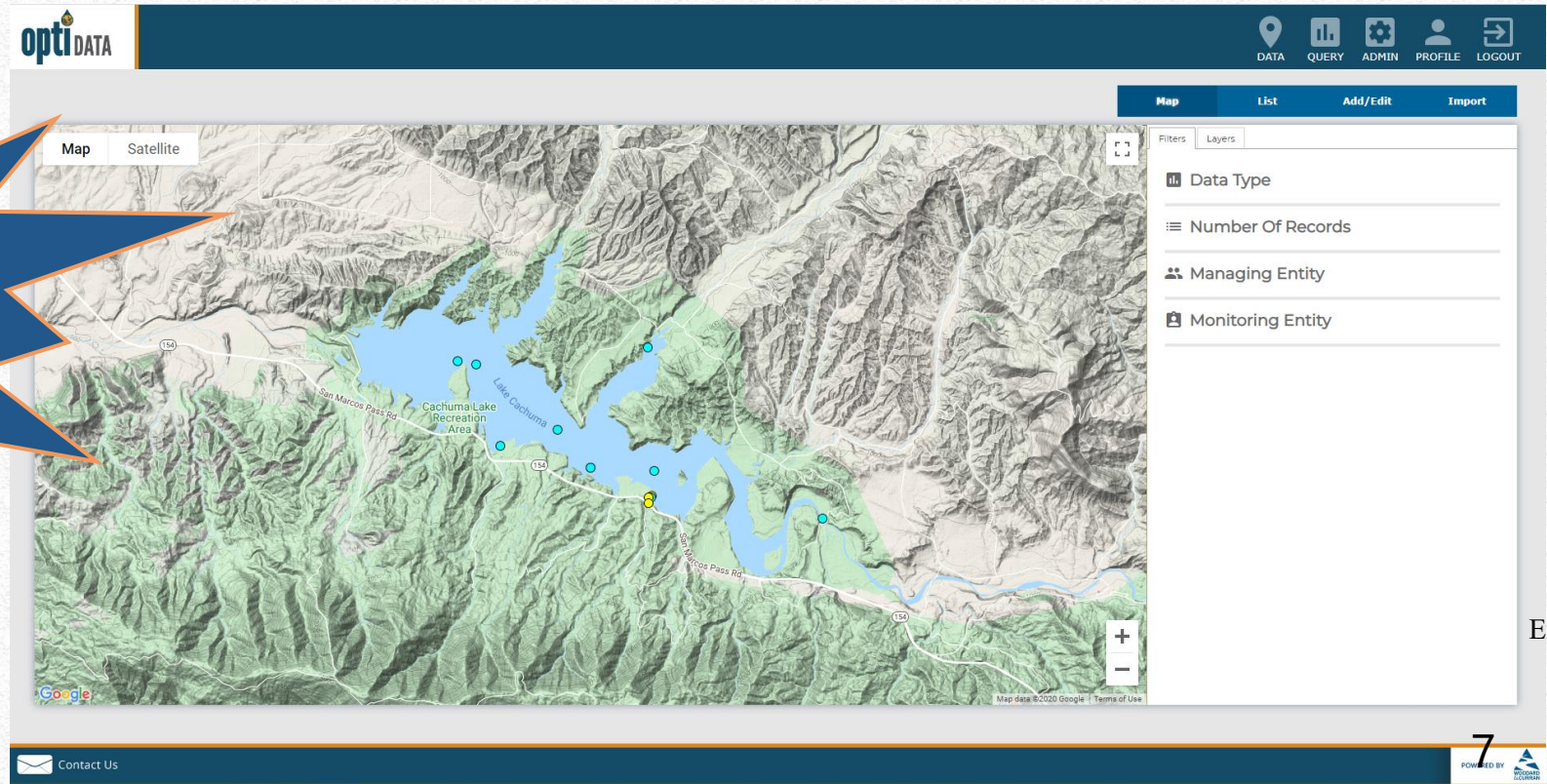
COMB and COMB Member Agencies

- Three meetings (Kickoff and two Technical Review Meetings)
- Individual interviews with each Agency

COMB and Member Agencies shared data and an online database was created.

- Data files and reports uploaded to OneDrive
 - Appendix A: Data Log
- Creation of OPTI Data Management System for internal use

Applicable data uploaded to the OPTI database created for this project

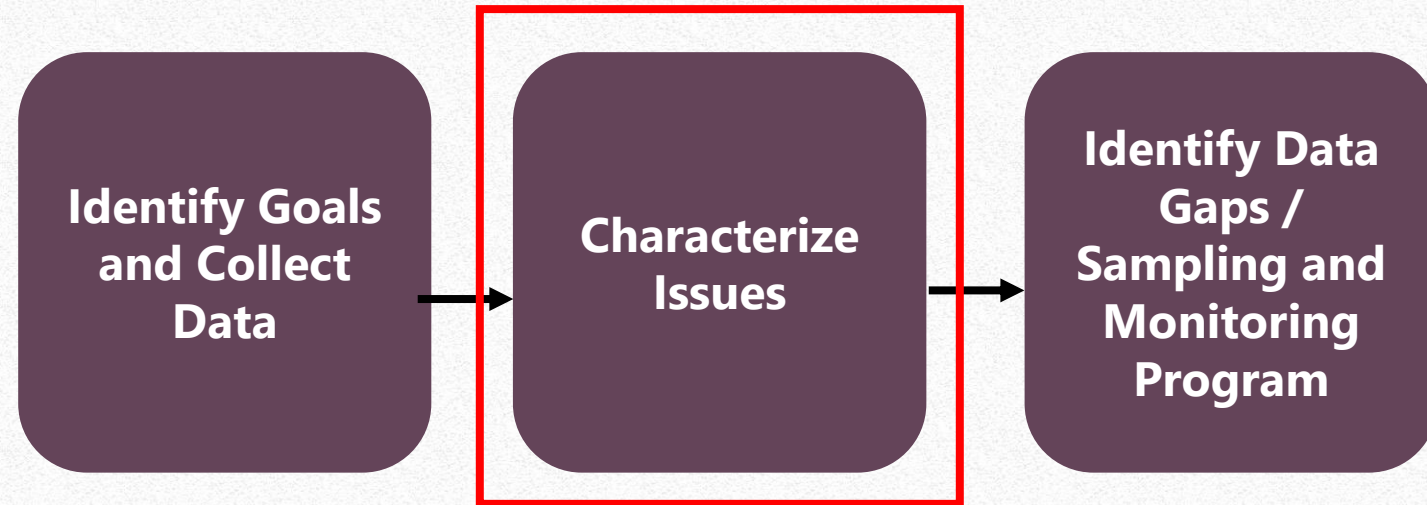




Water management goals were developed to understand the drivers of lake issues.

- Increase knowledge about the dynamics and sources of TOC and monitor and manage TOC
- Increase knowledge about the dynamics and sources of sediment and monitor and manage sedimentation (including turbidity)
- Monitor and manage algal blooms and sample and monitor phosphorus
- Consistently maintain projects and execute management actions to proactively (or retroactively, with a plan) address Tier 2 and Tier 3 issues.

The beginning of the study focused on collecting existing data to characterize issues.



Engage Stakeholders

COMB and COMB Member Agencies

- Three meetings (Kickoff and two Technical Review Meetings)
- Individual interviews with each Agency

Based on stakeholder feedback, issues for Lake Cachuma were prioritized

Tier 1



TOC



Sedimentation



Algal Blooms



Turbidity

Tier 2



Invasive Species
(Vegetation)



Debris Loads



Constituents of
Concern - Aquifer
Recharge Projects



State Water
Project Water
Quality

Tier 3



Fish
Populations
in the Lake

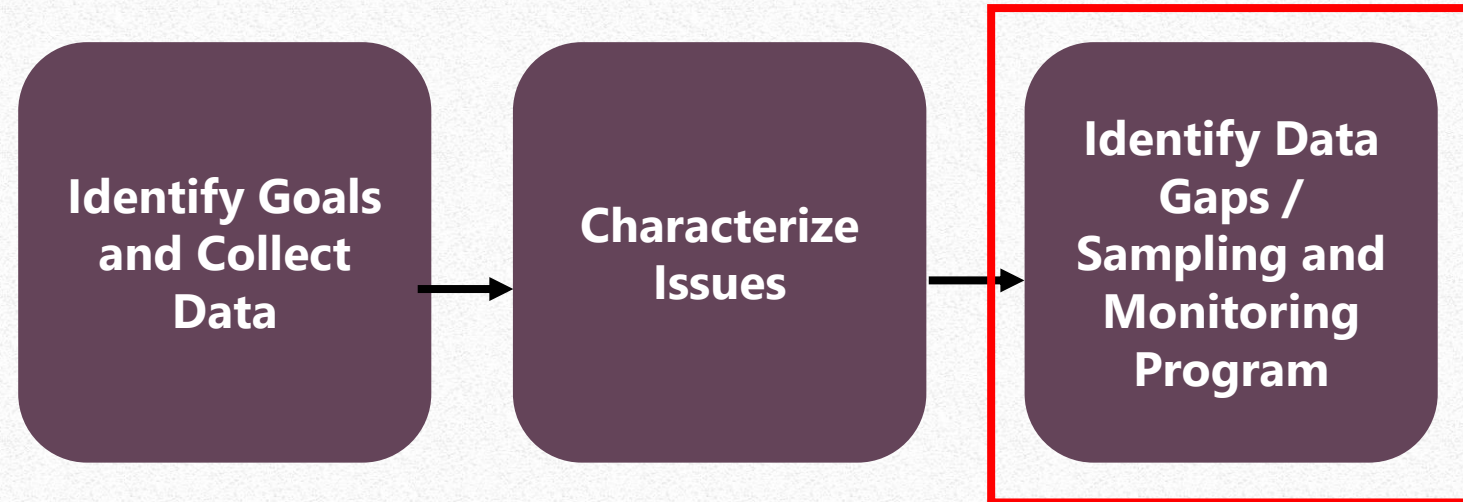


Invasive
Species (Non-
Vegetation)



Cloud
Seeding

Existing data were analyzed to identify data gaps.



Engage Stakeholders

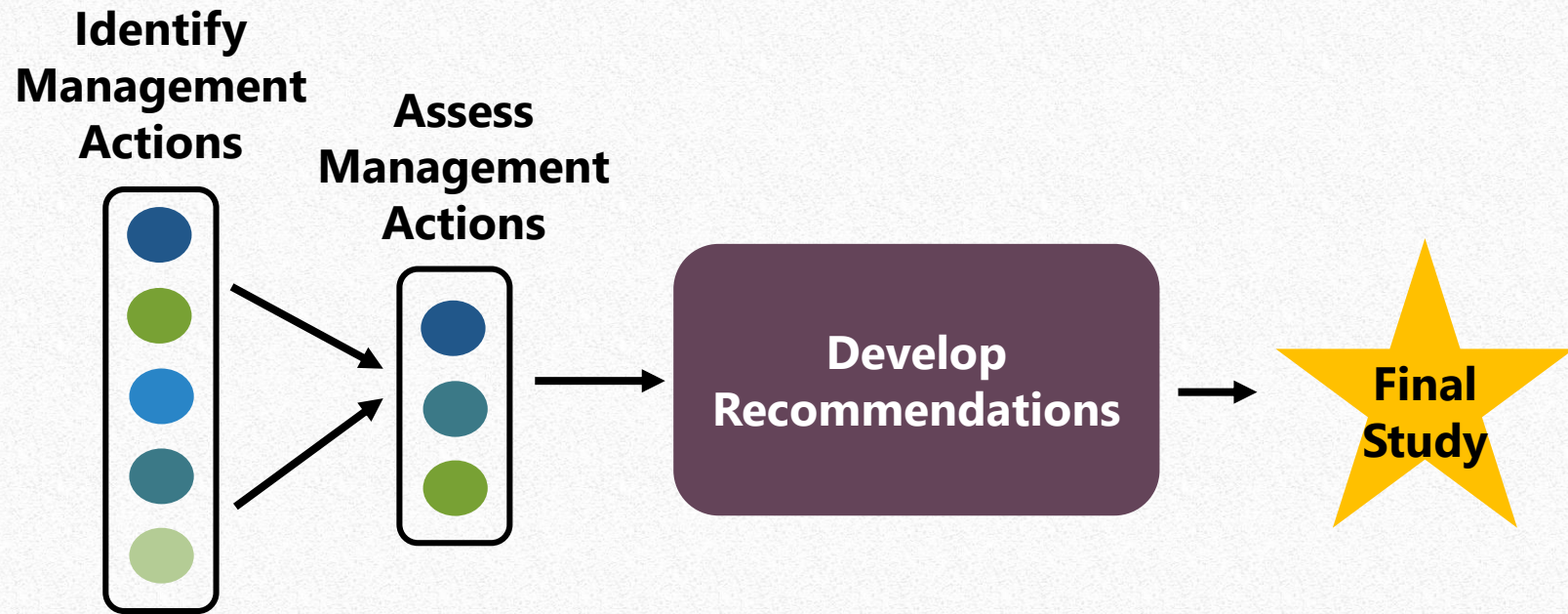
COMB and COMB Member Agencies

- Three meetings (Kickoff and two Technical Review Meetings)
- Individual interviews with each Agency

Short-term sampling recommendations were created to address data gaps.

- Collected monthly at the intake tower
 - DOC
 - TOC
 - TP
 - TKN
 - Orthophosphate
 - Ammonia
 - Nitrate/Nitrite
 - TN
 - TSS
 - Chl-a
- Collected at the intake tower and Santa Ynez river, Santa Cruz Creek, and Tequepis Creek
 - Temp
 - DO
 - pH
 - Turbidity

The last year focused on adaptive management to develop recommendations.



Engage Stakeholders

COMB and COMB Member Agencies

- Two Technical Review Meetings

Methodology to evaluate management actions was collaborative and adaptive.

Phase 1

Phase 2

Phase 3

Adaptive management strategy

Near-term vs. long-term actions

Comprehensive list of management actions screened at third Technical Review Meeting

Management Action	Brief Description of Action	Target	Waterbody	Primary Benefit	Secondary Benefit	Rehabilitate	Disturb	Applicability	Perms	Costs	When is this applicable?	Limitations
Shading Ops	Addition of Ops to lake to limit light penetration to control algal growth.	Algae - scuba light	In-Lake	Algal Blooms	TOC, Sedimentation, Turbidity, Fish Community (m DO)	Unrated	Medium	Seasonal	Reduces photosynthetically available light to algae.	Mount covered rafters or shadow water blooms.	Use may be limited to reduce the frequency of light blooms by reducing access to photosynthetically active radiation in the water column. This technique does not have a fully vetted demonstration of effectiveness and not address any underlying problems that promote algal production. An algal community composition study may be necessary to verify this technique. An understanding of conditions like this lake would be helpful.	Shade water or surface blooms are not necessarily mitigated using this lake with small rafters. Other may require more frequent applications. Thermal stratification may be altered. Does not interfere with the use of water as a potable supply.
Shade balls	Use shade balls (small plastic spheres) to slow oxygenation and prevent sunlight from causing chemical reactions in the water.	Algae - scuba light	In-Lake	Algal Blooms	Water Supply	Unrated	Short	Occasional	More cost effective than installing a floating cover. Additional benefits include reduced algal blooms, detritus, and decreased oxygenation. Can stop erosion of benthos if benthos is present in the water.	Approximately 200,000 AF balls - large quantity of plastic needed. Reduced recreational benefits.	The method has been used by the US Department of Water and Power in that reservoir in August 2016 to prevent water supply.	Water supply benefits are controversial.
Reservoir cover	Install a cover over the reservoir.	Algae - scuba light	In-Lake	Algal Blooms	Water Supply	Unrated	Short	Occasional	Eliminates algal blooms.	Site of lake makes installation of a reservoir cover very expensive and difficult.		
Treatment wetland	Install wetland near applicable inflow area.	Algae - scuba light	In-Lake	Nutrients	Sedimentation	High	Medium-Long	Variable	Can help to reduce sediment and TOC inputs, improve ecological function.	Wetland requires that can improve the ecosystem can be strategically placed near inflow areas to provide water quality benefits.		
Floating treatment wetland	Planting in that supports hydroponic plant growth.	Algae - scuba light	In-Lake	Nutrients	Sedimentation	High	Medium-Long	Annual	Can help to reduce sediment and TOC inputs, improve ecological function.	Anchoring floating wetlands may be on barge, must be harvested or removed seasonally. May block recreational uses.		Method effectiveness is still under study. Should be placed near stormwater inflow points.
Animal management/buffer zone	Limit dog and horse friendly areas in the Duckhorn watershed that may be directly adjacent.	Algae - scuba light	Watershed	Nutrients	Erosion reduction	High	Long-term	Occasional	Reduces erosion, sediment, and bacteria contamination.			
Hypolimnetic withdrawal	Removal of nutrient-rich hypolimnetic water.	Algae - scuba light	In-Lake	Nutrients, Algal Blooms	TOC, Sedimentation, Turbidity, Fish Community (m DO)	High	Long	Continuous	Reduces basic and internal P loading capacity, reduces nutrients from the system.	Thermal stratification, need storage capacity or treatment option for withdrawn water.	Lake with nutrient rich sediments and hypolimnetic or hypolimnetic with a large oxygen demand may be considered for withdrawal. Dewatering conditions for disposal or discharge of water that has been withdrawn. Nutrient budget should be undertaken to assess that nutrient loads will not allow nutrient algal production and other benefits of withdrawal. Excessive withdrawal can be paired with other management approaches to achieve a beneficial use of goals.	Dredging and thermal stratification need to be considered as a consequence of withdrawal. Thermally sensitive organisms may be adversely impacted. Sediment resuspension is possible depending upon intake location.
Dredging	Dredging and removal of sediments.	Algae - scuba light	In-Lake	Nutrients, Algal Blooms	TOC, Sedimentation, Turbidity, Fish Community (m DO)	High	Long	Annual	Reduces basic and internal P loading capacity, reduces nutrients from the system.	Expensive, labor intensive.	Dredging can effectively reduce internal nutrient loading and oxygen demand within a lake but is a labor intensive process. Sediment physical and chemical characteristics and for suitable disposal need to be considered. Dredged sediments may also be re-suspended.	The quality of the sediments that will be re-suspended in the water column. Hydrologic of the system may be altered, and flow restrictions need to be considered. Protected habitat and species may prohibit this technique.
Implement fertilizer management areas	Create BMPs to limit the application of fertilizer within the watershed.	Algae - scuba light	Watershed	Algae	Nutrients	High	Long	Ongoing				
Support riparian to cover operations in Los Olivos and San Ynez	Create BMPs to limit the application of fertilizer within the watershed.	Algae - scuba light	Watershed	Algae	Nutrients	High	Long	Ongoing				
Intervent or edge chemical treatment (e.g. site based compounds)	Application of chemical and other surface flows with a chemical agent that binds with phosphorus before it enters the lake.	Algae - phosphorus (external load)	In-Lake	Algal Blooms	TOC, Sedimentation	Medium	Long	Continuous	Very effective at reducing P loads to receiving water.	Need storage capacity or holding tanks for flocculated water.	This effort is currently underway by the Duckhorn partnership with the Santa Ynez Community Services District and San Barbara County. Each community has been asked to contribute more than \$500,000 in the "Visit State" phase.	Specialized equipment and infrastructure need to be installed. P maintenance and safety training is necessary to keep the treatment system operational and effective.
Phosphorus coagulation (Alum or other-based compounds)	Chemical application to the lake with phosphorus that binds with phosphorus in water column and phosphorus diffusing from sediments.	Algae - phosphorus (internal load)	In-Lake	Nutrients, Algal Blooms	TOC, Sedimentation, Turbidity, Fish Community (m DO)	High	Variable	Variable	Very effective and safe when done properly, well-mixed, evenly applied and underflow, cost-effective.	Needs a buffer in alkaline lakes, which are added to cost. May need multiple applications depending on extent of contamination and volume of P. Alum underflow, requires special handling.	Alum treatment is applicable when internal phosphorus loading is a driver of algal production. Nutrient budget (internal vs. external) should be undertaken and nutrient conditions need to be reviewed in order to determine dose. Alum dose may be necessary after 5-10 years based on the dose applied, nutrient conditions, and internal loading.	When will the pH decrease in lakes in alkaline lakes, a buffer will need to be added to avoid this side-effect for biodiversity unless the

Item #9
Exhibit #1
Page 14

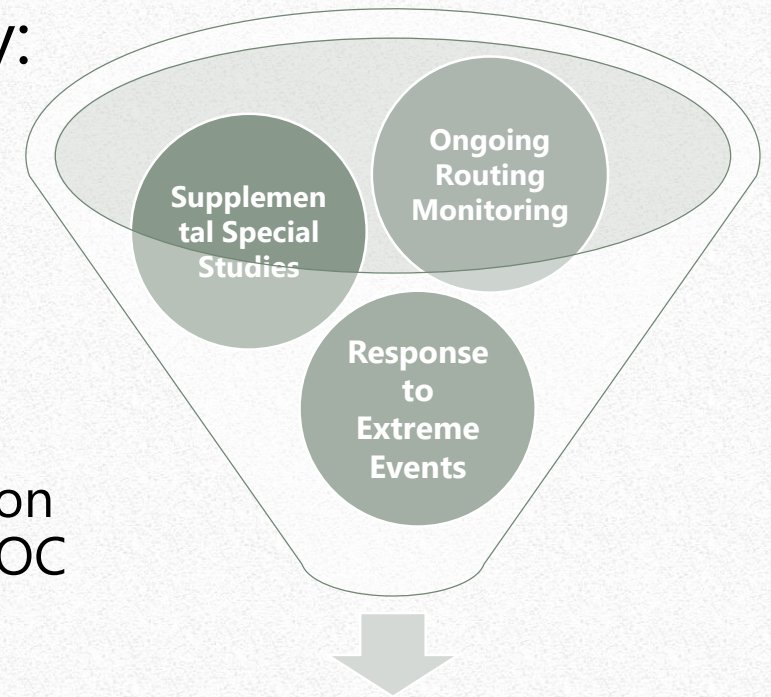


Agenda

- Welcome and Introduction
- Study Overview
 - Appendix A: Data Log
- **Appendix B: Sampling and Monitoring Plan**
- Appendix C: Modeling Assessment
- Appendix D, E, F: Recommended Management Actions
- Wrap up and Thank You

Long-Term Sampling and Monitoring Plan to determine future management

- Distributed for review in March 2020
- Monitoring activities are grouped by:
 1. Ongoing Routine Monitoring
 - Monthly sampling
 - Monitoring buoy
 - HAB Satellite Analysis Tool
 2. Supplemental Special Studies
 - Answer specific questions like determination of the algal vs. terrestrial contribution to TOC
 3. Response to Extreme Events
 - Fires
 - Algal Blooms



Informs future management

Agenda

- Welcome and Introduction
- Study Overview
- Appendix B: Sampling and Monitoring Plan
- Appendix C: Modeling Assessment
- Appendix D, E, F: Recommended Management Actions
- Wrap up and Thank You



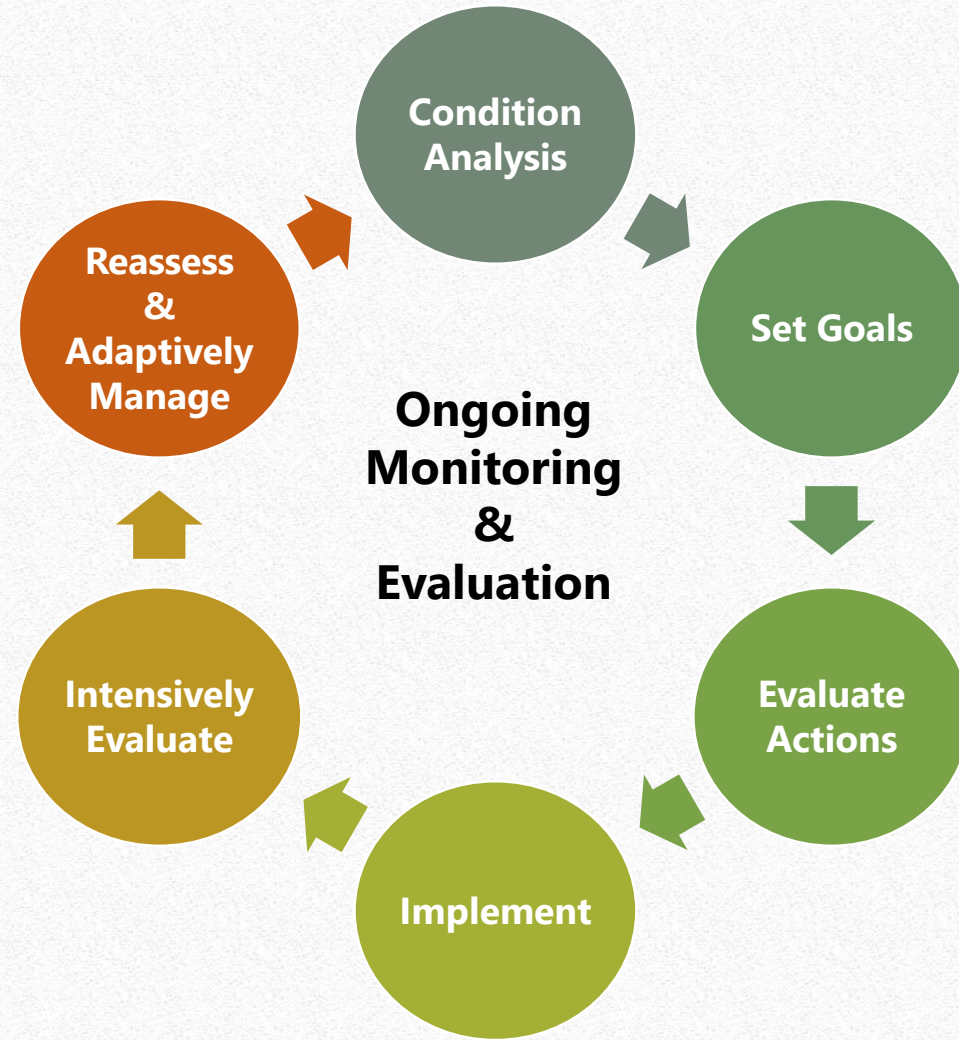
An assessment of modeling needs was performed to identify best application.

- Define potential model applications
- Determine applicable models
- Define required effort
- Assess whether modeling is appropriate
- Determined that investing in a model is appropriate and useful for Lake Cachuma
- Suggest convening a technical subgroup to discuss next steps

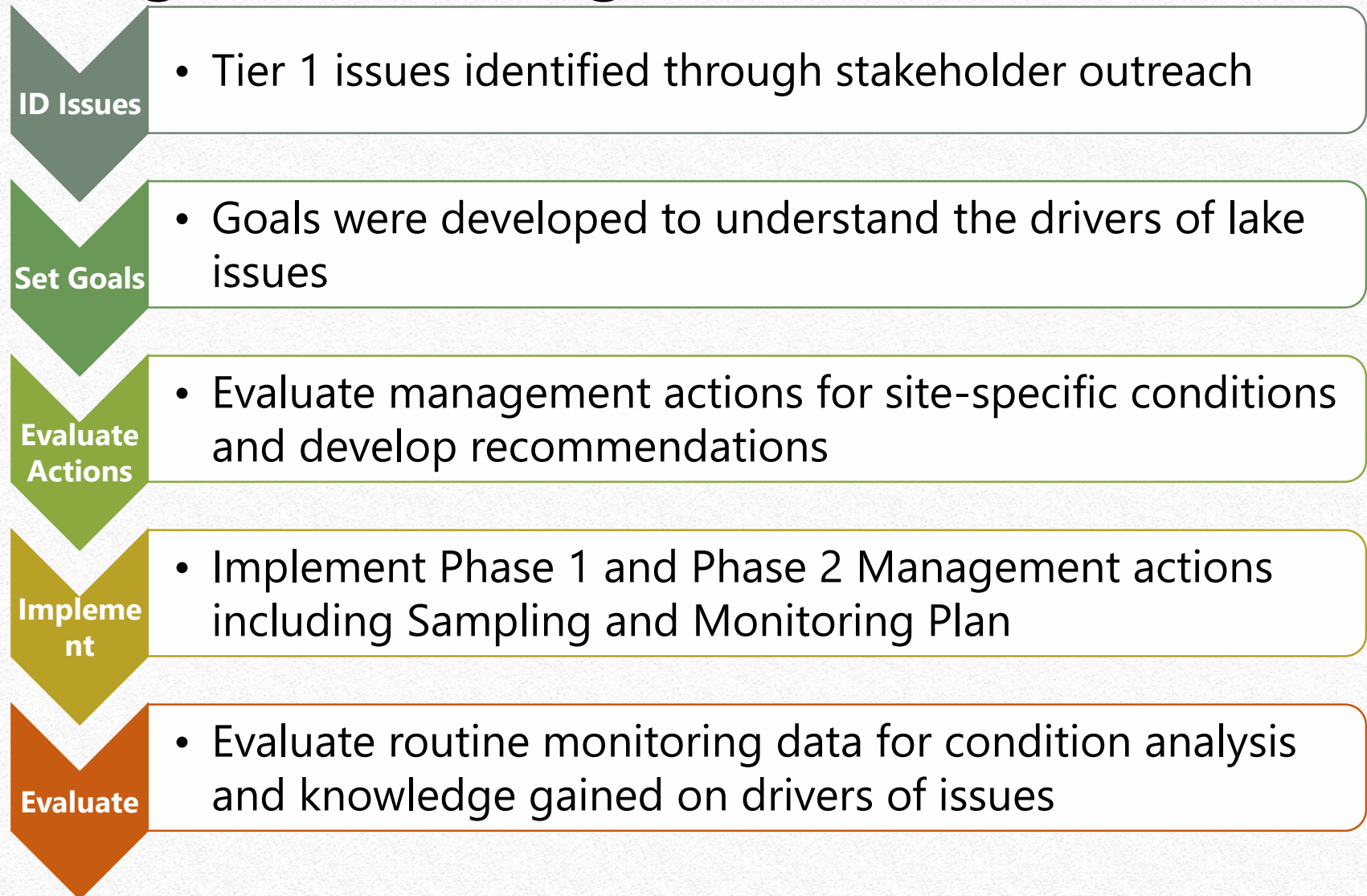
Agenda

- Welcome and Introduction
- Study Overview
- Appendix B: Sampling and Monitoring Plan
- Appendix C: Modeling Assessment
- Appendix D, E, F: Recommended Management Actions
- Wrap up and Thank You

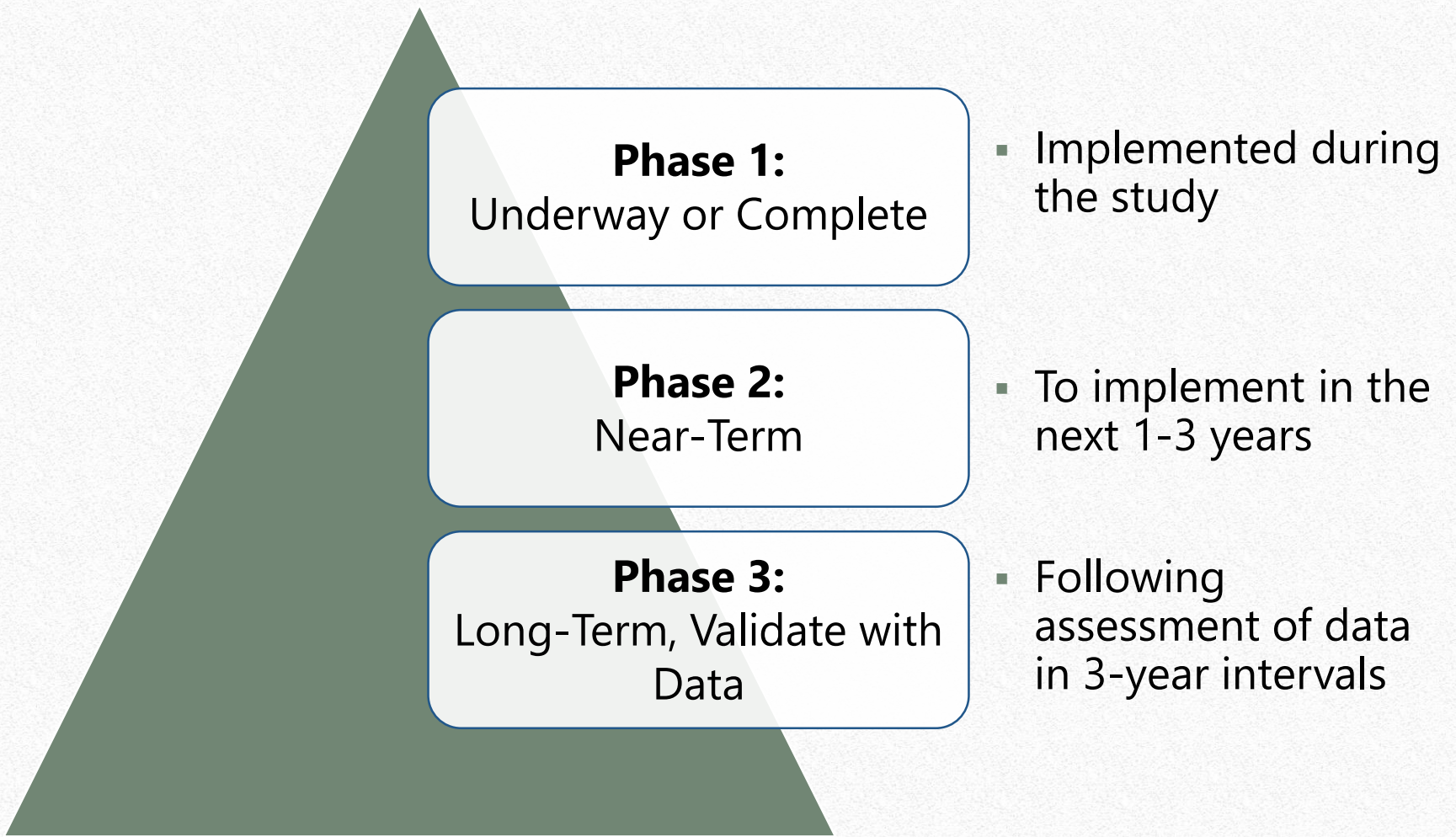
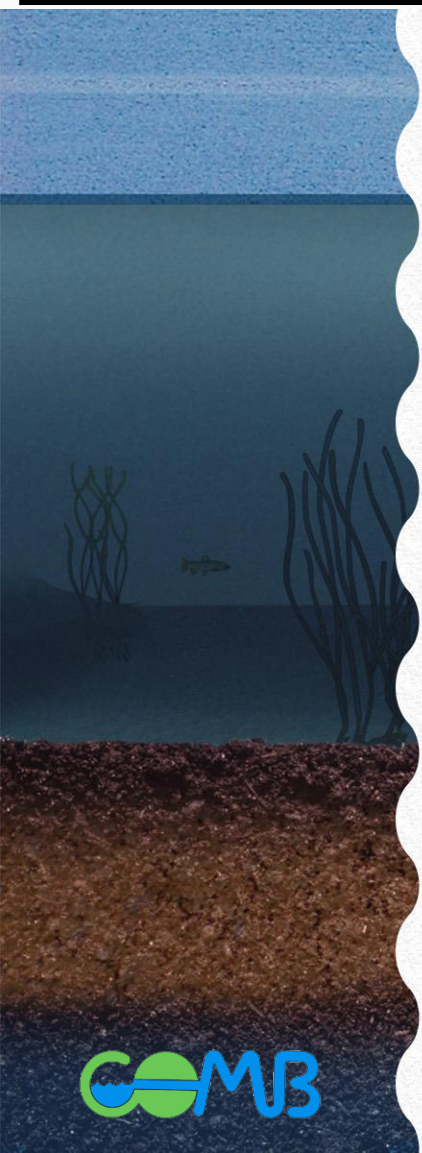
Adaptive management is our core recommendation for Lake Cachuma.



The process is designed to provide the right information to make decisions about both near- and long-term management actions.

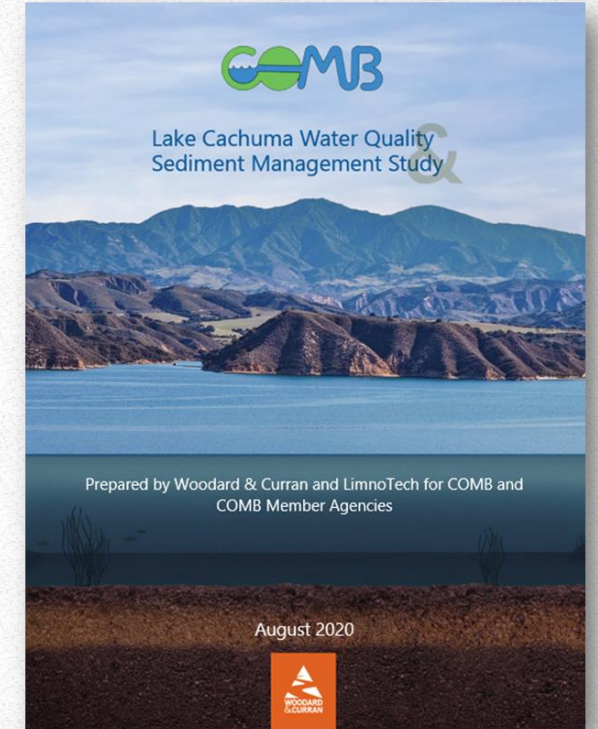
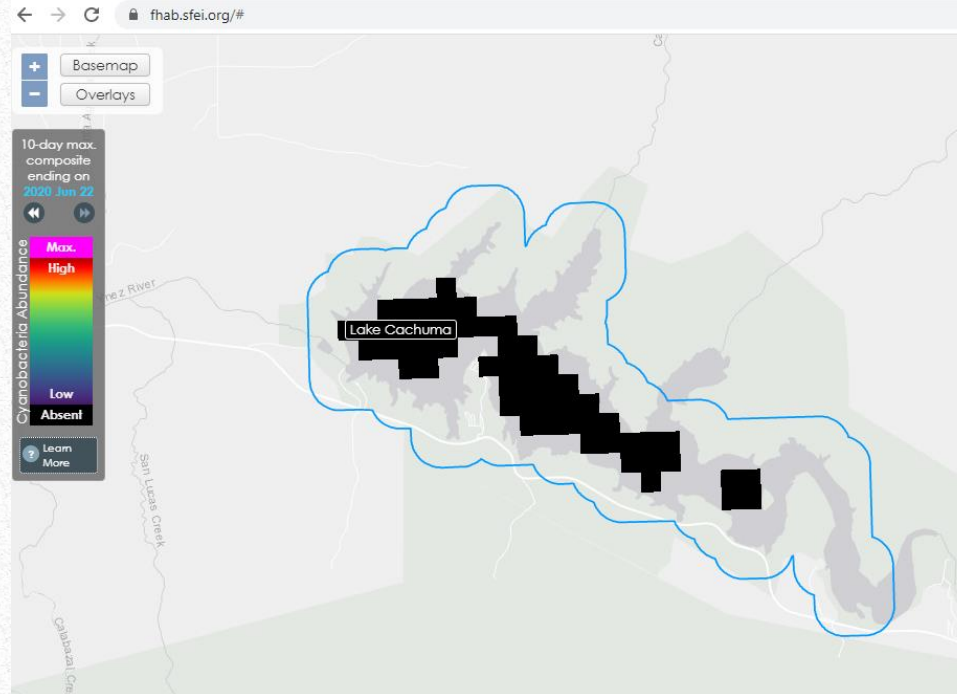


An adaptive management approach allows COMB to implement near-term actions now and longer-term actions when confirmed by additional data.



Phase 1 management actions are already underway ... or completed.

- Development of WQSMS
- Utilization of HAB Satellite Analysis Tool
- Development of erosion control measures with Caltrans



Phase 1 management actions are already underway ... or completed.

- Purchase and utilization of hand-held sonde (YSI EXO-2)
- Implementation of real-time monitoring buoy
- Expanded routine monitoring as part of SMP
- Identification and utilization of lab resources to reliably provide Chl-a, algae, and toxin measurements
- Development of OPTI database to store and manage water quality data.



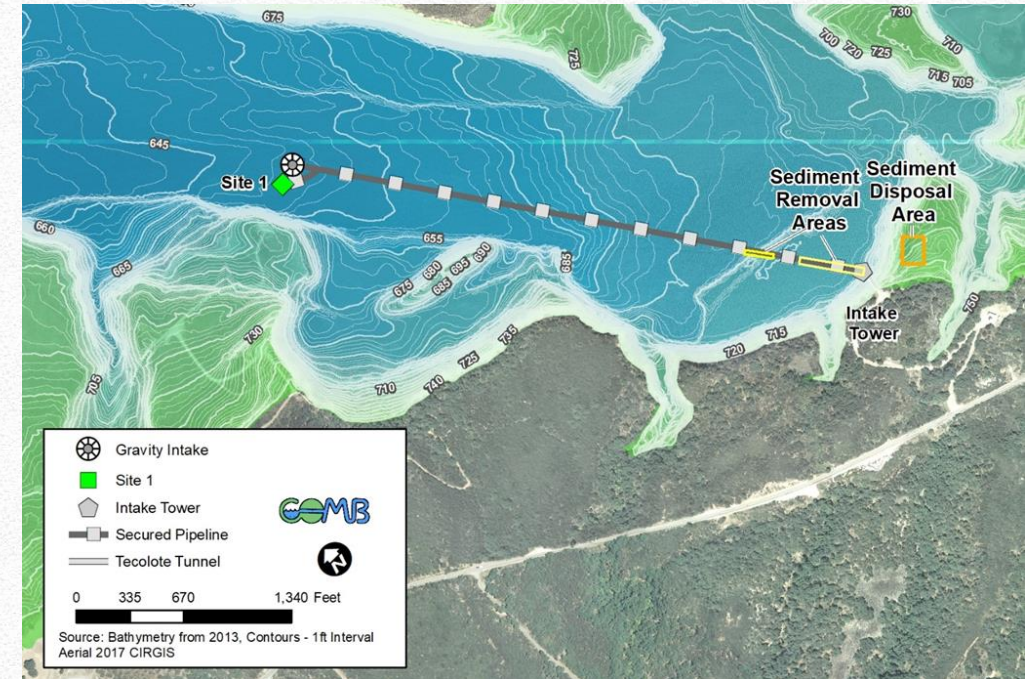
Phase 2 management actions include prioritized, near-term actions.

#	Management Action	Magnitude of Cost
1	Implement Routine Monitoring Plan	Covered with existing monitoring program
2	Determine external loads for TOC, DOC, phosphorus and nitrogen	< \$20,000
3	Measure mass of P in sediments and rates of sediment P flux	< \$30,000
4	Develop and apply a water quality model	~\$50,000-\$150,000 depending on approach
5	Determine predominant source of TOC (i.e., terrestrial vs. in-lake/algal) and seasonal variability	< \$50,000

#	Management Action	Magnitude of Cost
6	Conduct fish surveys to determine density of Carp and general condition of the fisheries community	< \$25,000
7	Update bathymetry survey	< \$50,000
8	Conduct shoreline erosion assessment	< \$15,000
9	Removal of aquatic invasive vegetation	< \$25,000
10	North Portal Intake Tower Gate 5 Extension with Secured Pipeline	\$1,800,000

North Portal Intake Tower Gate 5 Extension with Secured Pipeline to provide uninterrupted water service.

- Currently in the design phase
- Drought and declining lake levels required installation of temporary Emergency Pumping Facility
- Permanent solution for uninterrupted water service
- Gate 5 has colder water and may reduce THM Formation Potential



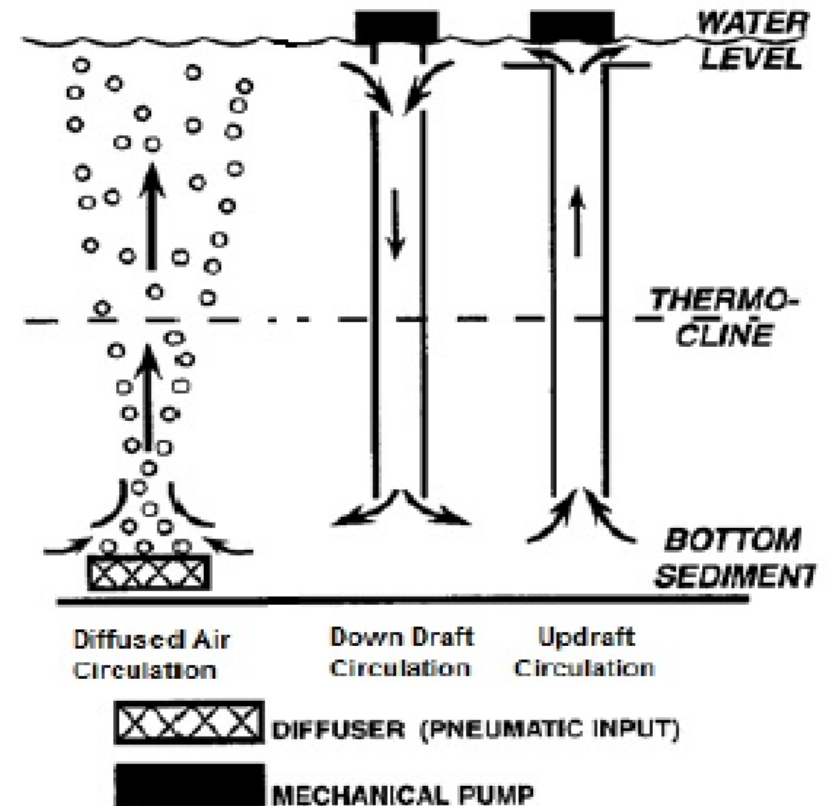


Phase 3 management actions require evaluation prior to implementation.

1. Hypolimnetic aeration/oxygenation
2. Phosphorus inactivation using chemical coagulants
3. Sediment dredging
4. Biomanipulation of fish community
 - a) Physical removal of carp
5. Shoreline stabilization/erosion control
6. Watershed Management Plan

Hypolimnetic Aeration/Oxygenation if internal sediment nutrient loading is promoting algal production.

- Phase 2 management actions #1-4
- Cost Considerations for Lake Cachuma:
 - Desired outcome of treatment
 - Depth and volume of reservoir
 - ~\$300,000, \$1.3, or \$3 million dependent on system
- Can be reliable if internal sediment nutrient loading is promoting algal production



Common aeration and circulation techniques.

Source: Wagner, 2015 (Modified from Holdren et al. 2001, courtesy of North American Lake Management Society)

Item #9
Exhibit #1
Page 28

Dredging if updated bathymetry survey and localized sediment high in P.

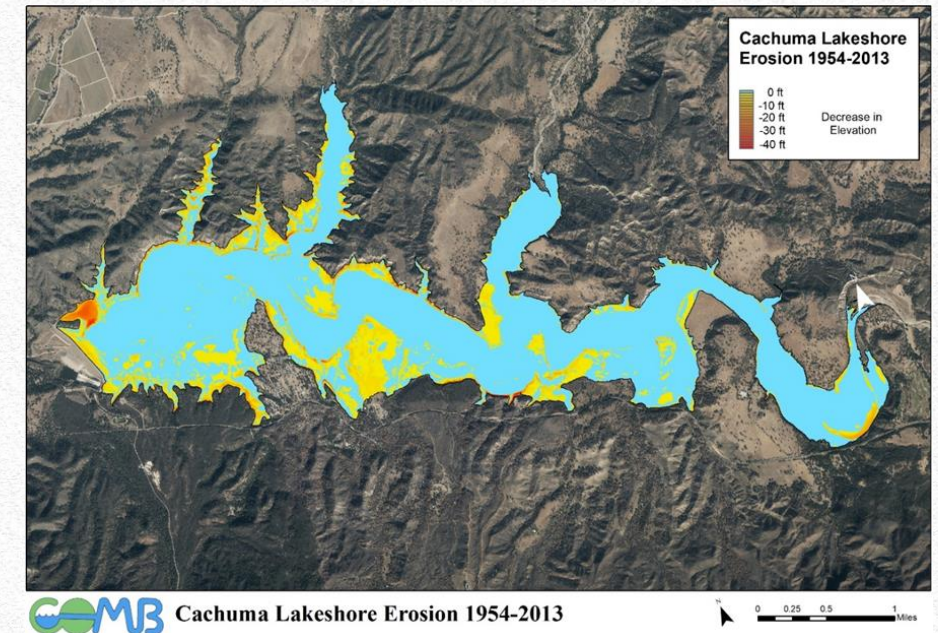
- Phase 2 management actions #3 and #7
- Cost Considerations for Lake Cachuma:
 - \$33,000 in 2015 for ~650 cubic yards (no removal of sediment)
 - \$9,200/AF (Santa Barbara 2015)
 - Lateral area, depth of sediment, disposal requirements
 - Likely >\$1M
- Feasibility study to evaluate



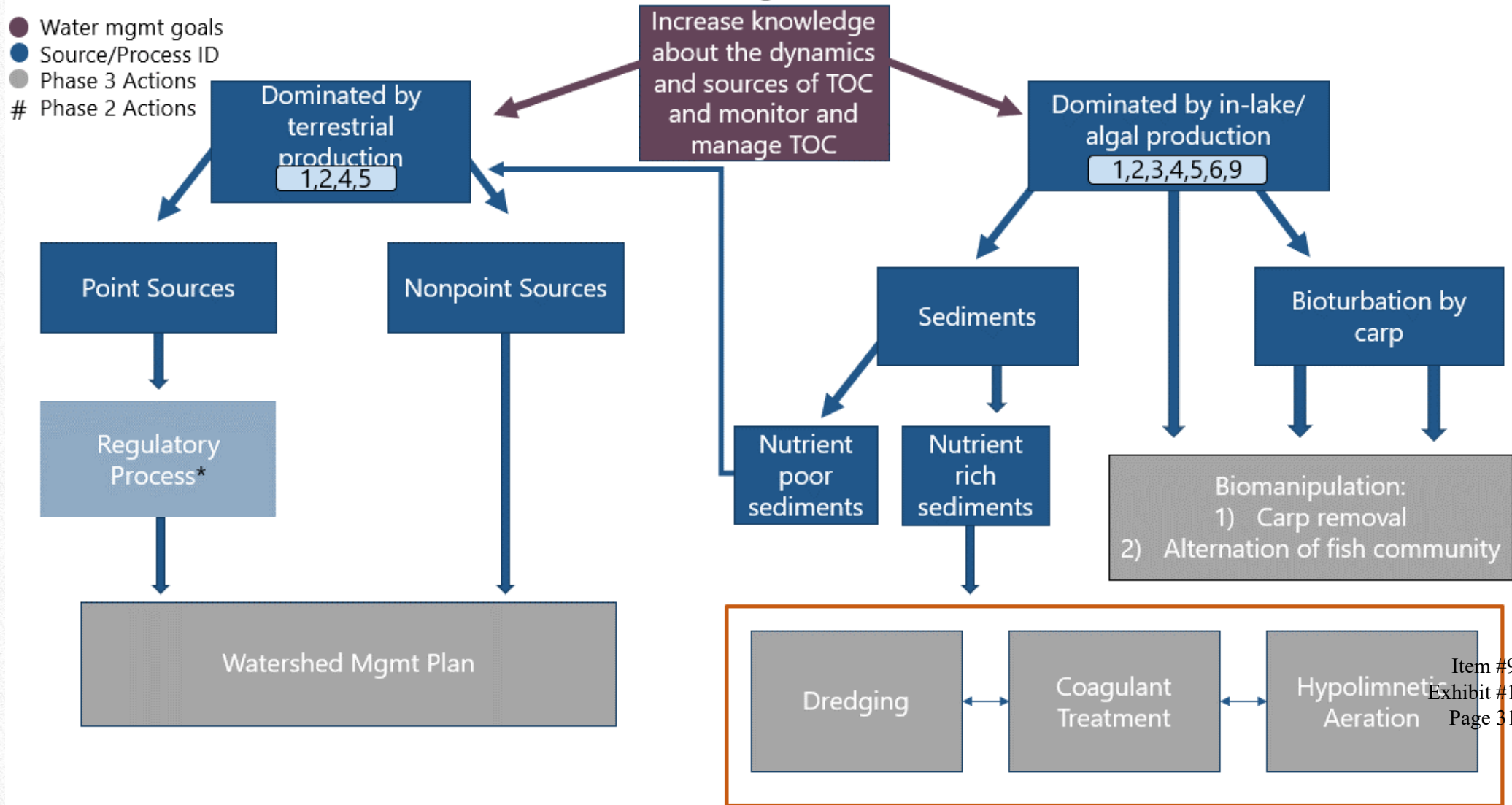
*Dredging near Lake Cachuma Intake Tower
2014-2017.*

Shoreline stabilization/erosion control if erosion threatens critical infrastructure.

- Phase 2 management actions #7 and #8
- Cost Considerations for Lake Cachuma:
 - Comparison to wetland mitigation sites - \$40,000 - \$55,000/acre
- Historically implemented at Tecolote Tunnel (including rip-rap and set back of North Portal Access Road)

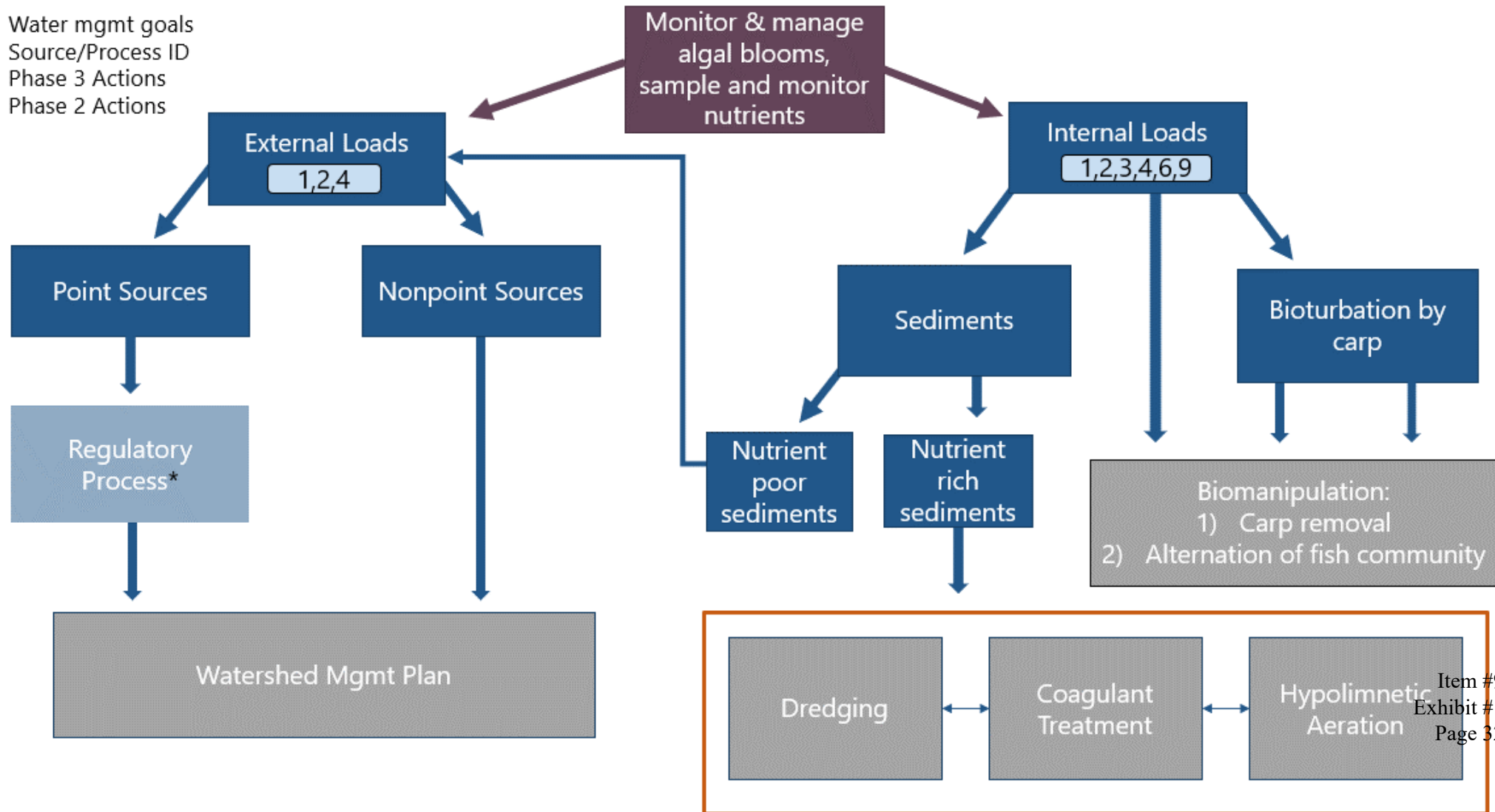


TOC "Roadmap" for long term management:



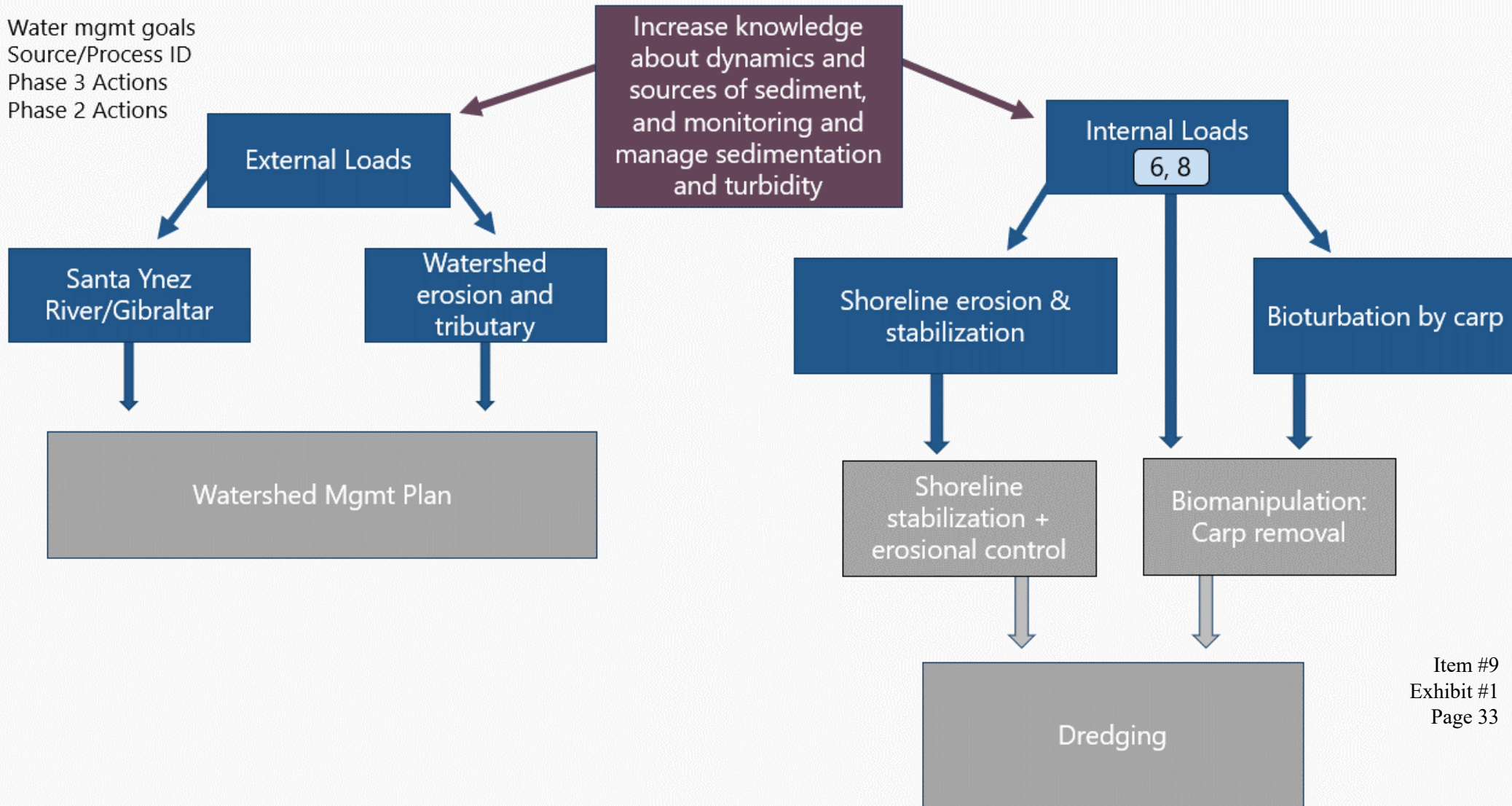
Algal bloom "Roadmap" for long term management:

- Water mgmt goals
- Source/Process ID
- Phase 3 Actions
- # Phase 2 Actions



Sediment/turbidity "Roadmap" for long term management:

- Water mgmt goals
- Source/Process ID
- Phase 3 Actions
- # Phase 2 Actions



Recommended management actions vary in cost and include preliminary estimates.

- Phase 1 Total
 - ~\$515,000
- Phase 2 Total
 - ~\$265,000 to \$365,000 in additional studies and assessments.
 - ~\$1,800,000 North Portal Intake Tower Gate 5 Extension with Secured Pipeline (Management Action (MA) #10) is currently in design.
- Phase 3 Total
 - ~\$700,000 to \$3,800,000 for lump sum projects (MAs #1,6)
 - Cost per Acre (MAs #2-5)
 - ~\$1,000 to \$2,000 per acre for nutrient management (MAs #2,4)
 - ~\$110,000 to \$200,000 per acre for sediment management (MAs #3,5)



Agenda

- Welcome and Introduction
- Study Overview
- Appendix B: Sampling and Monitoring Plan
- Appendix C: Modeling Assessment
- Appendix D, E, F: Recommended Management Actions
- **Wrap up and Thank You**

Thank you

**Brian Dietrick
Woodard & Curran**



bdietrick@woodardcurran.com

(213) 223-9479

THIS PAGE INTENTIONALLY LEFT BLANK

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	August 24, 2020
Submitted by:	Tim Robinson
Approved by:	Janet Gingras

SUBJECT: Update on South Side Erosion Control and Reforestation Project at Quiota Creek Crossing No. 8

RECOMMENDATION:

The Board of Directors receive an update on the South Side Erosion Control and Reforestation Project at Quiota Creek Crossing No. 8.

SUMMARY:

Project Description: This Project will enhance the recently completed Fish Passage Improvement Project at Quiota Creek Crossing 8 by addressing erosion problems that were identified and recommended by the CDFW-FRGP grant coordinator, Mary Larson. The Project is comprised of the following: installation of a small settling basin in two intermittent drainages that currently convey fine sediments into Quiota Creek; installation of a culvert under a ranch road to reduce erosion potential; cleanout of each drainage from the settling basins to Quiota Creek; the planting of ten native Coast Live oak trees in close proximity to each of the settling basins for reforestation; and mulching/seeding of all disturbed areas (Figure 1). The Project will take approximately one to two weeks for completion and would be accomplished when the site and the two drainages are dry. Mary Larson recommended that we apply for a NFWF grant to cover the costs of the proposed Project.

A brief preliminary proposal was submitted to NFWF for the estimated cost of the proposed Project (\$43,973). Subsequently, COMB was invited by NFWF to submit a full proposal which occurred on 2/7/20 and NFWF then awarded the grant to COMB on 2/24/20. 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 in the amount of \$41,530.

Project Location: The nearest town is Santa Ynez. Quiota Creek Crossing 8 is located off of Hwy 246 via Refugio Road 4.9 miles south of Hwy 246. The South Side Erosion Control and Reforestation Project is approximately 100 yards south of Crossing 8 on the Mitchell Ranch.

Contractor: Peter Lapidus Construction (PLC) was awarded the contract for \$41,530 and was issued a Notice to Proceed on 7/9/20.

Design Engineer: Michael Garelo and Shaun Bevan, HDR Fisheries Design Center.

Project Status and Timetable (as of the Board meeting date):

Status	Time
Notice to Proceed	7/9/2020
Construction start	7/20/2020
Contract Time (approximate to complete all work)	2 weeks
Completion Date	9/30/2020
Number of construction work days (WD*) (expected)	10
Elapsed Time (WD to the Board mtg)	8
Remaining Time (WDs to complete all work)**	2
Time Elapsed (WD) to Date (%)	80%
*WD: Working Days.	
** Remaining tasks are to plant trees, scheduled for late September.	

Work Performed to Date: PLC has completed all contracted tasks of the project which included clearing and grubbing of the site, excavation of the two settling basins, lining the inlet and outlet of each settling basin with native cobbles, reconditioning the ranch road drainage (widening and installing erosion control bars of native cobbles), installing the culvert under the ranch roach, digging 20 tree holes, seeding the area around the settling basins, spreading mulch over all disturbed areas, installing cattle exclusionary fencing around each tree planting area, site cleanup and removal of all construction equipment (Figures 2-7) are presented as Exhibits.

Work Projected for Next Month: COMB-FD staff will plant the 20 coast live oaks late in September after the dry and hot season. At that point the project will be completed and the final report and grant reimbursement can be submitted.

FINANCIAL IMPACT:

There is no direct COMB match required for the Project except for staff time to implement grant administration, legal counsel review of the landowner agreements and grant contract, biological monitoring, oversight of the project, final reporting and invoicing, and maintenance. The 20 proposed Coast Live oaks of the project will be incorporated into our routine maintenance for the mitigation trees at the Quiota Creek Crossing 8 Project which will require approximately 40 hours of staff time per year until the trees are self-sustaining (approximately in 3 years). Maintenance of the 2 settling basins will be conducted by COMB staff as needed and is estimated to be once every 3 years to be done by hand or a backhoe (only if needed). Permit fees are estimated to be approximately \$520. Total estimated COMB costs during the first year and subsequent years are outlined in Table 1.

Table 1: Estimated COMB costs for the project for the next 10 years.

Task	Year 1	Years 2-3	Years 4-10	Total
Legal Counsel Review	\$460			\$460
Permit Fees	\$520			\$520
Tree Planting	\$400			\$400
Tree Maintenance (40 hrs/ yr)	\$800	\$1,600	\$500	\$2,900
Settling Basin Cleaning (if needed)	\$0	\$750	\$750	\$1,500
Reporting and Invoicing	\$400	\$300	\$200	\$900
Total:	\$2,580	\$2,650	\$1,450	\$6,680

A summary of the revenues and estimated expenditures are presented below in Table 2. Actual expenditures as of the date of this Board memo are provided in Table 3.

Table 2: Estimated cost and available funds for the project.

	FY 2019-20
Revenues	
NFWF Grant Funding	\$ 43,973
Member Agency Assessments	\$ 0
Budget Assessments	\$ 0
Total:	\$ 43,973
Expenditures	
PLC Construction	\$ 41,530
Manzanita Nursery (oak trees)	\$ 400
Tree planting materials	\$ 300
Engineering Review and As-Built Drawings (HDR)	\$ 1,500
Operating Expenses (permits, review, inspections)	\$ -
Total:	\$ 43,730
Differential	\$ 243

Table 3: Expenditures to date for the project.

Estimated Project Costs / Available Funds:		\$ 43,973
Total Expenditure to Date:	FY21	TOTAL
PLC - Invoice 1:	\$41,530	\$41,530.00
Storrer Environmental Services (bird survey) - Invoice 1:	\$633	\$632.50
Oak Trees (Mazanita Nursery) - Invoice-1:		\$0.00
Planting Materials - Invoice 1:		\$0.00
Total Paid:	\$42,163	\$42,162.50
Summary:		
% Project Expenditures through 8/24/2020:		95.9%
Funds Remaining (Est. Costs minus Total Expenditures):		\$1,811

LEGAL CONCURRENCE:

COMB legal counsel has reviewed all contract documents related to the project.

ENVIRONMENTAL COMPLIANCE:

All permits have been obtained and are being followed.

LIST OF EXHIBITS:

Project photos:

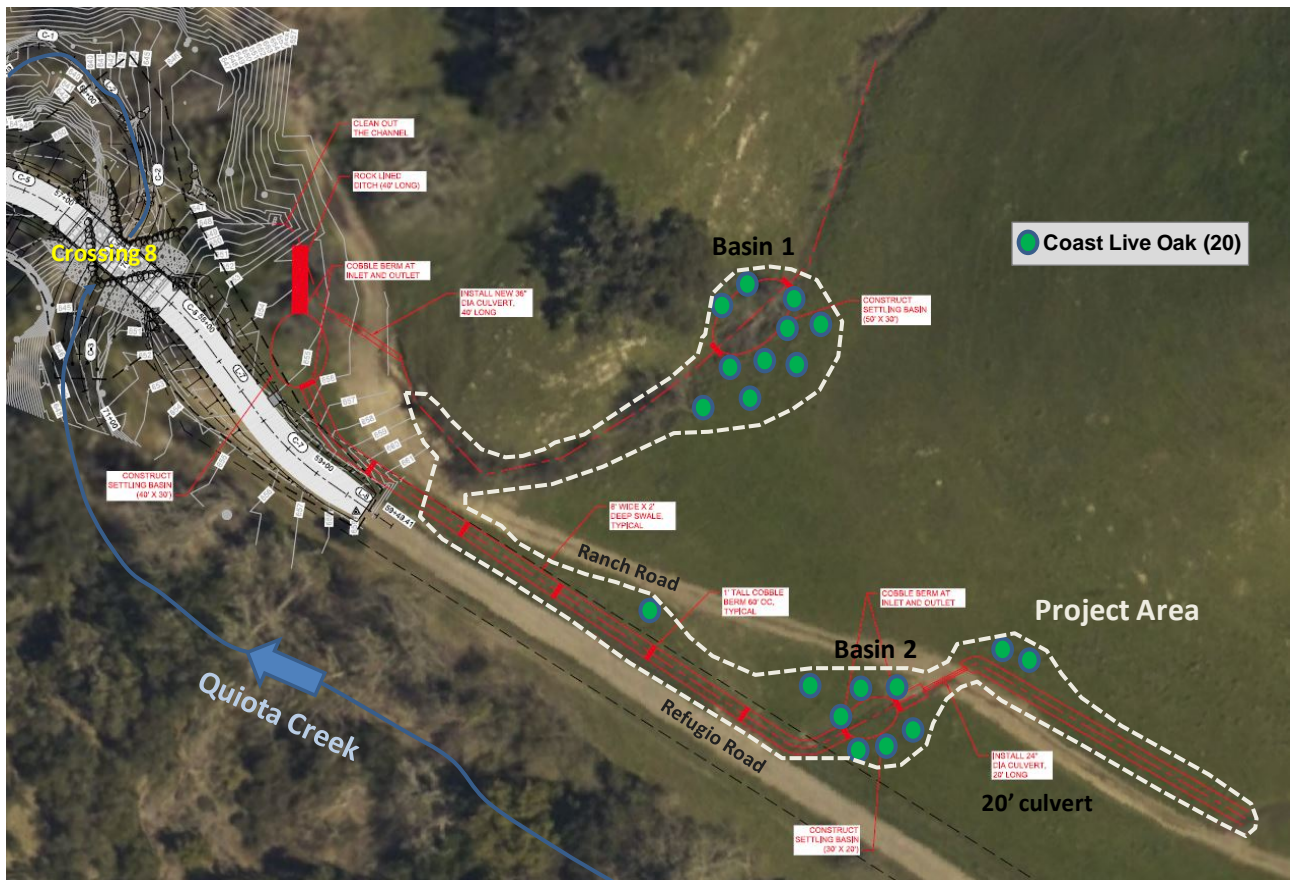


Figure 1: Project area with all project elements showing the close proximity to the Quiota Creek Crossing 8 Project.



Figure 2: Excavating the settling basin of the no named tributary.



Figure 3: Placing the inlet and outlet native cobbles of the no name tributary settling basin.



Figure 4: Installing the Ranch Road culvert.



Figure 5: Excavating the Ranch Road drain settling basin and installing inlet and outlet native cobbles.



Figure 6: Reconfiguring the Ranch Road drainage.



Figure 7: Seeding and mulching the disturbed areas.



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.”

August 24, 2020

General Manager Report

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

Administration

- **First Amendment to the Separation Agreement between the Cachuma Operation and Maintenance Board (COMB) and Santa Ynez River Water Conservation District, ID No. 1**

On August 28, 2018, a Separation Agreement related to the COMB Joint Powers Authority was formally executed between the Santa Ynez River Conservation District, ID No. 1, the Cachuma Operation and Maintenance Board, Goleta Water District, the City of Santa Barbara, Montecito Water District and Carpinteria Valley Water District. This agreement, effective as of May 27, 2016, resolved disputes regarding the amount of COMB's assessments to ID No. 1 for certain previous fiscal years, future fiscal years and also described ID No. 1's authority to withdraw and separate as a participating member agency of COMB. The agreement also outlined and clarified continuing obligations related to ID No. 1 as a Cachuma Member Unit.

In January 2020, the parties agreed to enter into a First Amendment to the Separation Agreement in order to reconcile opposing viewpoints and streamline the payment process included in the original Separation Agreement. The First Amendment has now been executed by all parties and became effective on July 30, 2020. Funds in the escrow account have been distributed to the remaining Member Agencies of COMB who had paid for project implementation work affiliated with the required Biological Opinion.

Virtual Meetings

- **Draft Safe Yield Study Presentation – Santa Barbara County Water Agency**

COMB staff was invited to attend a virtual presentation by the Santa Barbara County Water Agency's consultant, Stetson Engineers, on a draft report that the County initiated on the Cachuma Project Safe and Operational Yield Study.

The presentation covered various components of the analysis including historical Cachuma Project yield determinations, background on the need to re-evaluate operational yield over time, impacts of the 2000 Biological Opinion, potential impacts from recent State Board Order decision, historical fish flow targets with above normal and wet years highlighted, evaporation, tunnel intrusion, lake storage capacity considerations, minimum pool and planning for critical drought periods. The County has requested comments on the study from the participants who included the Cachuma Project Member Units, the Parent District, Reclamation and COMB.

- **Santa Barbara County Integrated Regional Water Management Plan (IRWMP) – South Coast Watersheds Meeting**

On Thursday, July 30, 2020, the South Coast IRWMP participants met virtually to discuss IRWMP agenda items which included the Countywide SGMA update, Roundtable of Regions update, update on Round 1 implementation funding request, and South Coast Watersheds objectives, priorities, targets and resource management strategies. Jane Gray from Dudek and consultant for Santa Barbara County, led the meeting. Ms. Gray discussed the final awards for Round 1 implementation, funding allocations, and Round 2 funding. Approximately \$3 million remains for Round 2 General Implementation Projects for our region. Updates and presentations from various cooperating partners related to sustainability and climate resiliency were very informative.

- **Santa Barbara County Office of Emergency Management (SBCOEM) Virtual Meeting**

Last week, the Santa Barbara County OEM conducted a conference call with Emergency Managers to address the excessive heat status and electrical emergency situation in Santa Barbara County. The California Independent System Operator (CAISO) had declared a warning due to low power reserves and high demand for electricity on the California electric grid. A warning is an operational notification from the California grid operators that activates demand response programs to decrease overall demand for electricity. At that time, CAISO rotating outages had not been declared but the potential for rotating outages was likely.

CAISO rotating outages (Stage 3 CAISO Emergencies) become necessary when the state's electricity demand outpaces available supply in real time or are unavoidable. CAISO will typically order the state's investor-owned utilities, including SCE, to reduce electrical loads by turning off service immediately.

In addition to the development of an internal power shutdown plan, COMB staff has employed recent precautionary measures for power shutdowns (both rotating outages and PSPS) including replacement of all batteries in uninterrupted power supplies throughout the system, monitoring and maintenance of fuel levels at backup generators and replacement of generator batteries, replacement of PLC 8, connection of Glen Anne Turnout and Goleta West meters to a backup generator, installation of temperature sensors in server room and SCADA system, monitoring of PG&E and SCE power notifications for potential system disruptions, and participation in OEM teleconferences related to potential emergencies/disruptions.

Respectfully Submitted,

Janet Gingras

General Manager

CACHUMA OPERATION AND MAINTENANCE BOARD

MEMORANDUM

DATE: August 24, 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

A heat wave occurred in mid-August associated with a strong high pressure system that had a return interval of 1 in 10 years. California Independent System Operator (ISO) declared an electrical system warning statewide with rotating power outages to conserve energy. COMB backup power systems were able to provide power to the North Portal during the outages experienced in Santa Ynez Valley. The water quality monitoring buoy recorded the highest water (82 degrees Fahrenheit) and air temperatures (100 degrees Fahrenheit) since it was installed in spring (Figure 1). The buoy provides a new location of meteorological data at Lake Cachuma and measures water temperature one meter below the surface and air temperature two meters above the surface near the North Portal Intake Tower. Currently water from Lake Cachuma is being drafted from Gate 4, the deepest available drafting gate. Gate 4 is currently below the thermocline and provides water at a cold, stable temperature (~60 degrees Fahrenheit) to the South Coast treatment plants.

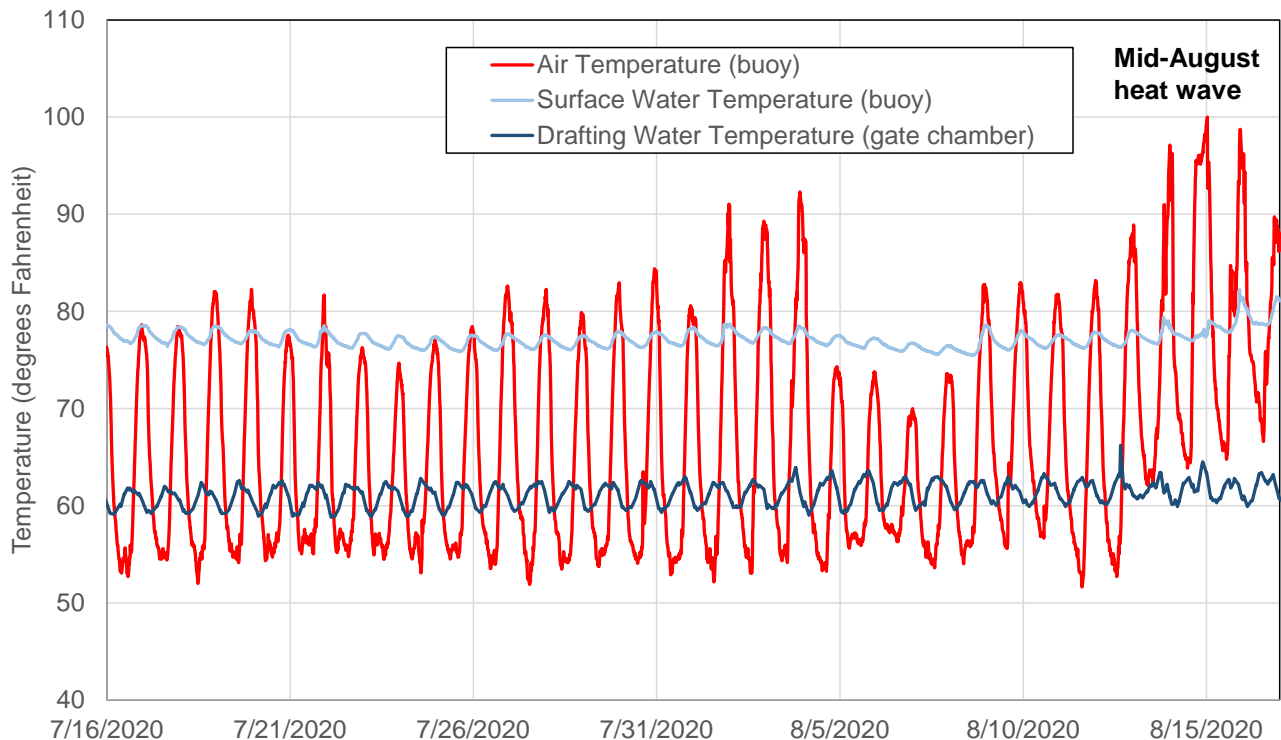


Figure 1. Lake Cachuma Water Quality Monitoring Buoy Temperature Data

LAKE ELEVATION PROJECTION

Lake Cachuma is currently at 75.4 % capacity (736.14' as of 8/17). Santa Ynez River Water Conservation District (SYRWCD) plans to perform a downstream water rights release starting August 31. About 16,000 acre-feet is expected to be released from Lake Cachuma over a three-month period. SYRWCD Above Narrows/Below Narrows accounts in Lake Cachuma contain a total 22,968 AF as of the June 2020 Downstream Users Accounting Report. Figure 2 provides the projected lake elevation assuming a downstream releases of 10,000 to 16,000 acre-feet. The lake elevation is projected to drop 8 to 13 feet by the end of the year to between 723' to 728' in elevation with projected diversions to the South Coast, releases for fish, and evaporation losses.

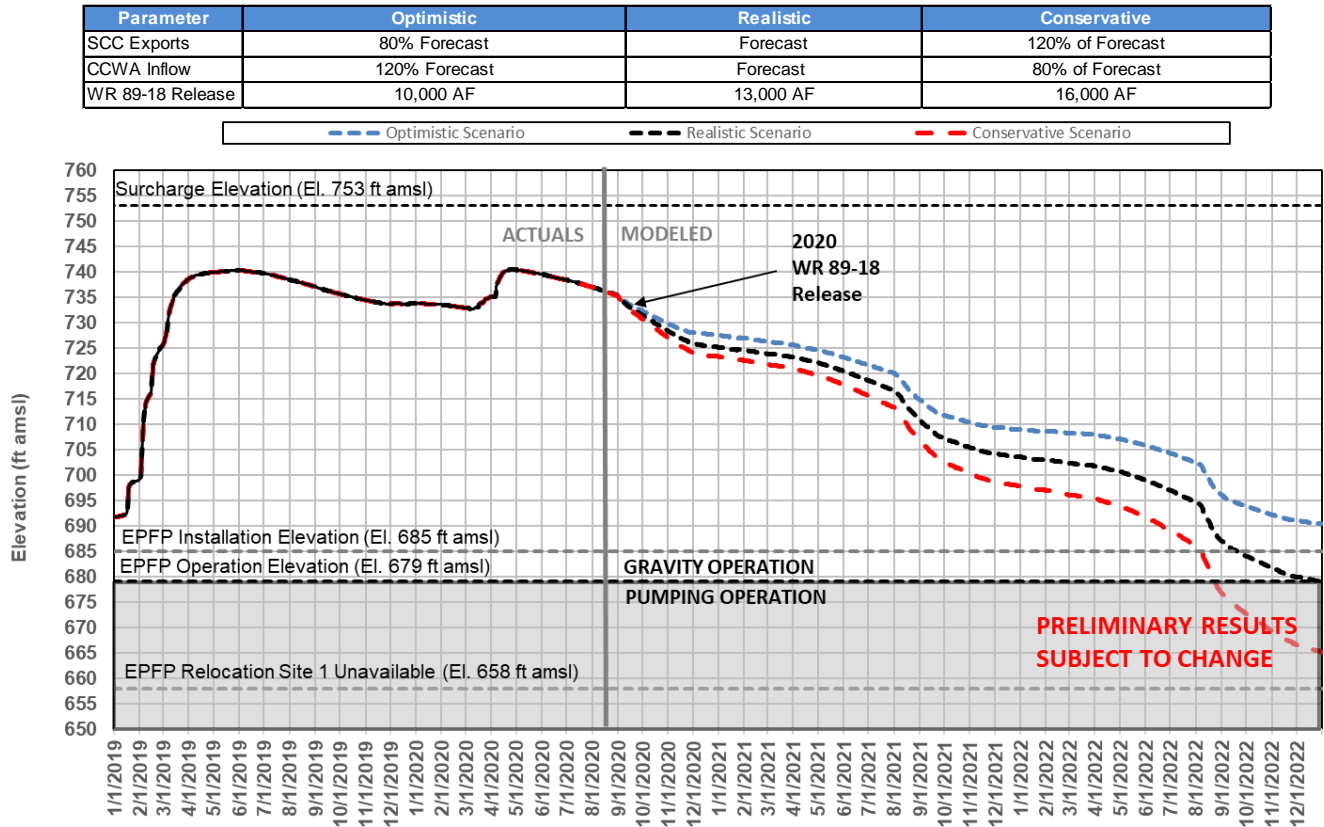


Figure 1. Lake Elevation Projection assuming Dry Year Hydrology (as of 8/15/2020)

AWIA EMERGENCY RESPONSE PLAN

COMB is required by the 2018 America's Water Infrastructure Act (AWIA) to certify the completion of an emergency response plan by September 25th, 2020. COMB certified the completion of the risk and resilience assessment in March 2020. COMB staff has prepared a draft of the emergency response plan. COMB has many of the components of the plan in existing documents. However, COMB staff has utilized the requirements of the AWIA to update existing documents or develop new plans as follows:

- Provided recommended revisions of the Standard Operating Procedures to Reclamation
- Developed a draft a Cybersecurity Plan
- Developed a draft SCADA Master Plan
- Updated the Power Shutoff Plan.

COMB recently completed two projects that were part of the Power Shutoff Plan: the connection of Glen Anne Turnout to backup power and the upgrade of SCADA PLC 8. These projects improve the reliability of power to COMB's SCADA system and the sharing of data between COMB and Goleta Water District and the City of Santa Barbara.

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
Infrastructure Improvement Projects			
SCADA System	PLC 8 was replaced on August 7th. COMB staff is working on SCADA Master Plan to replace the additional seven PLCs in the system.	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 August to review construction.	Shutdown needs to be closely coordinated with CWWD. Rehabilitation of laterals may be needed prior to shutdowns occurring. At least four separate shutdowns will need to be completed to complete the work. Shutdowns timed for low demand periods in the winter.	First Schedule F shutdown planned to Nov 20 - Jan 21 timeframe - overall completion in 2022/2023
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 have been ordered 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
Special Projects			
Emergency Pumping Facility - Secured Pipeline Project	Makai Ocean Engineering has provided the 75% designs for review. Materials are being prepared for the environmental review process based on 75% design. 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.	75% designs planned to be completed by August 2020.
Lake Cachuma Water Quality and Sediment Management Study	Report on the study has been completed. COMB continues to sample according to the sampling and monitoring plan developed by the study.	Recent wildfires and subsequent storm events have resulted in decreased water quality and increased sedimentation into Lake Cachuma.	Study report completed in August 2020

THIS PAGE INTENTIONALLY LEFT BLANK

CACHUMA OPERATION AND MAINTENANCE BOARD

DATE: August 24, 2020
TO: Janet Gingras, General Manager
FROM: Shane King, Operations Supervisor
RE: MONTHLY REPORT OF OPERATIONS – JULY 2020

The total flow from Lake Cachuma into the Tecolote Tunnel for July was 1,969.7 acre-feet, for an average daily flow of 63.53 acre-feet. Lake elevation was 738.35 feet at the beginning of July and 737.01 feet at the end of July. Storage decreased by 3,540 acre-feet. CCWA wheeled 277.9 acre-feet of water to Cachuma Project facilities. The City of Santa Barbara wheeled 644.70 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 July.

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 can be accomplished by one staff member or with appropriate physical distance if multiple staff are required. Routine operation and maintenance completed during the month of July 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 July.
- Reviewed several projects for conflicts within the right of way.
- Received and reviewed 93 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 – replaced light bulbs in elevator shaft.
- Performed monthly water quality sampling.
- Read anodes and rectifier data.

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

- Continued structure maintenance in the lower reach, maintenance of 18 structures was performed.
- Continued to monitor installation of electrical conduit near the South Coast Conduit performed by Tidwell Construction (see photo).
- Installation and commissioning of PLC 8 was completed. This PLC ensures the critical transfer of data between COMB and the Cater Water Treatment Plant.
- Major brush clearing and weed abatement at Carpinteria Reservoir was completed. Keeping fence lines clear plays an important role in ensuring the security of the Carpinteria Reservoir property and its assets within. (see photos)
- Clean-up around the COMB yard was completed. Waste and unusable materials from recent large projects was cleared out. Materials that were usable and worth saving were organized and stored properly for future use.
- Quarterly Venturi meter calibrations were conducted by Emerson Process Management and COMB staff.
- An onsite meeting with Flowers Engineering, Carpinteria staff, and COMB staff took place at some of the lateral structures in the Carpinteria section of the SCC. This meeting was to discuss the upcoming rehabilitation work on the SCC this coming winter.
- Aspect Engineering Group and COMB staff installed a secondary power supply for PLC 7 (COMB yard). It was found that the original single power supply was powering the PLC along with several other instrumentation devices and could not provide adequate power demand. The secondary power supply was installed to split the power demand and provide adequate power to all instruments.
- 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 no indication 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 participated in an online Traffic and Flagger training.

OPERATIONS PHOTOS



Fish Screen Cleaning



Monitoring Tidwell construction work near the SCC



Brush clearing and weed abatement at Carpinteria Reservoir



Brush clearing and weed abatement at Carpinteria Reservoir (cont.)

CACHUMA OPERATION AND MAINTENANCE BOARD
BOARD MEMORANDUM

DATE: August 24, 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 flow through the Hilton Creek Watering System (HCWS) at approximately 5.8 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.

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.

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 for \$41,530. The project is currently under construction and a separate Board memo has been prepared.

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.

Adjustments to the Downstream Releases from Bradbury Dam in Support of the Fishery:

Reclamation has made no further adjustments to the downstream releases from Bradbury Dam since the last Board meeting. Adjustments were made last month to improve water quality in support of the downstream *O. mykiss* fishery.

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 WY2019. 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).

Accounts*	Allocation	Amount Used**	Amount Remaining
Units:	(acre-feet)	(acre-feet)	(acre-feet)
Fish Passage Supplementation			
WY2019	3,200	3,307	-107
WY2020	0	2,558	-2,558
Adaptive Management	500	149	351
Fish Rearing***	8,684	8,684	0
Unallocated Project Yield		19,527	
Total:	9,184	34,225	-2,314
* Originally was 9,200 af, 8,942 af in 2008 and 9,184 af in 2013.			
** Values as of 7/31/20.			
*** 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.

THIS PAGE INTENTIONALLY LEFT BLANK

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	August 24, 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 – 8/24/20, 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 will be provided to the Lake Cachuma Oak Tree Committee in association with their next Committee meeting.

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

	Dec 2019	Jan 2020 ²	Feb 2020 ²	March 2020 ²	April 2020 ²	May 2020	June 2020	July 2020	Aug 2020
Year 11 Oaks (2019-2020)		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
Year 10 Oaks (2018-2019)	Planted ¹		Irrigated	Irrigated Weeded	Weeded	Weeded		Irrigated Weeded	Irrigated Weeded
Year 9 Oaks (2016-2017)	Planted ¹					Weeded		Irrigated Weeded	Irrigated Weeded
Year 8 Oaks (2015-2016)	Planted ¹			Mulched		Weeded Mowed		Irrigated Weeded	Irrigated Weeded
Year 7 Oaks (2014-2015)	Mulched Weeded					Mowed			
Year 6 Oaks (2010-2011)						Mowed			
Year 5 Oaks (2009-2010)									
Year 4 Oaks (2008-2009)									
Year 3 Oaks (2007-2008)									
Year 2 Oaks (2006-2007)									
Year 1 Oaks (2005-2006)									

¹ Dead trees replaced

² Oak tree inventory

The dry season is in full swing with two watering trucks being used on a daily basis to irrigate the newer age classes of oak trees. From mid-July to the present, crews have completed another round of watering on all the trees located at the Santa Barbara County Park. These trees are comprised of the youngest trees (Year 8 through Year 11) that require nearly continuous watering during the dry season.

Staff is currently in the process of watering and hand weeding the Year 7 trees located at Bradbury Dam and Storke Flat. All of the roads needed to access the Year 7 trees are unpaved, with ample weed growth occurring after the wet season. The road grading and weed whacking that occurred back in May is enabling safe access to these locations.

LIST OF EXHIBITS:

n/a

CACHUMA OPERATION AND MAINTENANCE BOARD

METERED USE REPORT FOR JULY 2020

LATERAL/ STATION	NAME	ACRE FEET METERED	LATERAL/ STATION	NAME	ACRE FEET METERED
CARPINTERIA WATER DISTRICT			GOLETA WATER DISTRICT		
Boundary Meter - East		420.99	18+62	G. WEST	131.53
Boundary Meter - West		(0.22)	78+00	Corona Del Mar FILTER Plant	964.13
			122+20	STOW RANCH	0.00
				Raytheon (SWP) (Warren Act Contract)	0.00
				Morehart (SWP) (Warren Act Contract)	(3.00)
				SWP CREDIT (Warren Act Contract)	0.00
			TOTAL		1,092.67
			MONTECITO WATER DISTRICT		
			260+79	BARKER PASS	76.06
			386+65	MWD YARD	16.76
			487+07	VALLEY CLUB	0.00
			499+65	E. VALLEY-ROMERO PUMP	162.51
			510+95	MWD PUMP (SWD)	15.54
			510+95	ORTEGA CONTROL	19.09
			526+43	ASEGRA RD	0.22
			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
			TOTAL		290.18
			CITY OF SANTA BARBARA		
			CATER	INFLOW	1668.45
			Gibraltar	PENSTOCK	(644.70)
			CATER	SO. FLOW	(926.14)
			Sheffield	SHEF.LIFT	187.76
				SWP CREDIT (Warren Act Contract)	0.00
				La Cumbre Mutual (SWP) (Warren Act)	(128.52)
			TOTAL		156.86
			SANTA YNEZ RIVER WATER CONSERVATION DISTRICT, ID#1		
			COUNTY PARK, ETC		2.93
			TOTAL		2.93
			BREAKDOWN OF DELIVERIES BY TYPE:		
			STATE WATER DELIVERED TO LAKE		275.00
			STATE WATER TO SOUTH COAST (including from storage)		131.52
			METERED DIVERSION		1,963.41
SWP CREDIT (Warren Act Contract) 0.00 TOTAL 420.77					
Note: Meter reads were taken on: 7/31/2020					

WATER YEAR 19-20 CACHUMA PROJECT ALLOCATION

**CACHUMA OPERATION AND MAINTENANCE BOARD
WATER PRODUCTION AND WATER USE REPORT
FOR THE MONTH OF JULY 2020 AND THE WATER YEAR TO DATE (WYTD) ⁽¹⁾**

(All in rounded Acre Feet)

CACHUMA PROJECT		
WATER PRODUCTION:	MONTH	WYTD
Cachuma Lake (Tec. Diversion)	1,969.7	11,953.5
Tecolote Tunnel Infiltration	98.3	1,082.5
Cachuma Lake (County Park)	2.9	15.0
Subtotal - Water Production	2,070.9	13,050.9
WATER DELIVERIES:		
State Water Diversion	131.5	603.3
Cachuma Diversion	1,963.4	12,434.8
Storage gain/(loss)	(41.2)	2.9
Subtotal - Water Deliveries	2,053.7	13,041.0
Total Water Production	2,070.9	13,050.9
Total Water Deliveries	2,053.7	13,041.0
Difference = Apparent Water Loss	17.2	10.0
% Apparent Water Loss	0.83%	0.08%

SCC APPARENT WATER LOSS ALLOCATION (AWL) ⁽⁴⁾

	GWD	SB CITY	MWD	CVWD	TOTAL
CURRENT MONTH CHARGE / (ADJUSTMENT) ⁽³⁾					
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	0.0	0.0	0.0	0.0	0.0
(+) State Water Project	0.0	0.0	0.0	0.0	0.0
Total Current Month	0.0	0.0	0.0	0.0	0.0
WATER YEAR-TO-DATE CHARGE / (ADJUSTMENT)					
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	0.0	0.0	0.0	0.0	0.0
(+) State Water Project	0.0	0.0	0.0	0.0	0.0
Total AWL Charged (WYTD) ⁽³⁾	0.0	0.0	0.0	0.0	0.0
Total AWL Not Charged (WYTD) ⁽³⁾					10.0
Total AWL Incurred (WYTD)					10.0

CACHUMA PROJECT WATER CHARGE

	GWD	SB CITY	MWD	CVWD	SYRID #1	TOTAL
CURRENT MONTH						
Water Usage						
M&I	863.2	156.9	269.7	189.2	2.9	1,481.9
Agricultural	229.5	0.0	20.5	231.6	N/A	481.5
Subtotal Project Water Use	1,092.7	156.9	290.2	420.8	2.9	1,963.4
(+) Apparent Water Loss	0.0	0.0	0.0	0.0	N/A	0.0
(+) Evaporative Loss ⁽⁴⁾	14.5	156.9	26.1	5.3	5.3	208.1
Total Project Water Charge	1,107.1	313.7	316.3	426.1	8.3	2,171.5
WATER YEAR-TO-DATE						
Water Usage						
M&I	5,749.6	1,338.7	1,647.4	1,070.7	15.0	9,821.3
Agricultural	1,363.2	0.0	124.4	1,125.8	N/A	2,613.5
Subtotal Project Water Use	7,112.8	1,338.7	1,771.8	2,196.6	15.0	12,434.8
(+) Apparent Water Loss	0.0	0.0	0.0	0.0	N/A	0.0
(+) Evaporative Loss ⁽⁴⁾	263.8	889.0	188.7	79.0	29.6	1,450.0
Total Project Water Charge (*)	7,376.6	2,227.7	1,960.5	2,275.6	44.5	13,884.9

(*) 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 JULY 2020 AND THE WATER YEAR TO DATE (WYTD) ⁽¹⁾**

(All in rounded Acre Feet)

CACHUMA PROJECT WATER BALANCE

	GWD	SB CITY	MWD	CVWD	SYRID #1	TOTAL
Project Water Carryover - 10/1/2019	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
(-) Project Water Charge (WYTD)	7,376.6	2,227.7	1,960.5	2,275.6	44.5	13,884.9
Balance Carryover Water	563.9	11,960.1	1,855.7	200.1	408.3	14,988.1
Current Year Allocation ⁽⁵⁾	9,322.0	8,277.0	2,651.0	2,813.0	2,651.0	25,714.0
(-) Balance of Project Water Charge (WYTD)	0.0	0.0	0.0	0.0	0.0	0.0
Net Allocation Available Before Adjustments	9,322.0	8,277.0	2,651.0	2,813.0	2,651.0	25,714.0
<u>Adjustments to Net Allocation (WYTD)</u>						
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 ⁽⁶⁾	358.0	239.0	239.0	160.0	(996.0)	0.0
Transfers/Adjustment - SB/La Cumbre	0.0	(30.0)	0.0	0.0	0.0	(30.0)
Transfers/Adjustment - Bishop Ranch ⁽⁷⁾	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
Balance Current Year Allocation	9,780.0	8,486.0	2,890.0	2,973.0	1,655.0	25,784.0
Total Cachuma Project Water Available	10,343.9	20,446.1	4,745.7	3,173.1	2,063.3	40,772.1

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 130 AF; City of SB received 86 AF; MWD received 86 AF and CVWD received 58 AF from ID#1 in July 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 July was 275 AF.

CACHUMA OPERATION AND MAINTENANCE BOARD
WATER STORAGE REPORT

MONTH: **JULY 2020**

GLEN ANNIE RESERVOIR ⁽¹⁾

Capacity at 385' elevation:	335	AF
Capacity at sill of intake at 334' elevation:	21	AF
Stage of Reservoir Elevation	333.0	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	545.3	Feet
Water in Storage	432.62	AF

ORTEGA RESERVOIR

Capacity at 460' elevation:	65	AF
Capacity at outlet at elevation 440':	0	AF
Stage of Reservoir Elevation	450.9	Feet
Water in Storage	32.35	AF

CARPINTERIA RESERVOIR

Capacity at 384' elevation:	45	AF
Capacity at outlet elevation 362':	0	AF
Stage of Reservoir Elevation	373.5	Feet
Water in Storage	20.29	AF

TOTAL STORAGE IN RESERVOIRS ⁽¹⁾

Change in Storage	-65.58	AF
-------------------	--------	----

CACHUMA RESERVOIR

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

Stage of Reservoir Elevation	737.01	Feet
Water in Storage	147,954	AF
Surface Area	2,558	Acres
Evaporation	1,614.3	AF
Inflow	431.7	AF
Downstream Release WR8918	0.0	AF
Fish Release (Hilton Creek)	309.7	AF
Outlet	353.0	AF
Spill/Seismic Release	0	AF
State Water Project Water	277.90	AF
Change in Storage	-3,540	AF
Tecolote Diversion	1,969.7	AF

Rainfall: Month: 0.00 Season: 0.01 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 7/31/2020

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	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
5,749.6	1,363.2	7,112.8	263.8	7,112.8	7,376.6	5,881.7	1,494.9	-

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

Month
 Oct
 Nov
 Dec
 Jan
 Feb
 Mar
 Apr
 May
 Jun
 Jul
 Aug
 Sep

SCHEDULE AND REVISIONS			SCHEDULE AND REVISIONS			
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Begin Bal	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
				-	-	-
				-	-	-

Month
 Oct
 Nov
 Dec
 Jan
 Feb
 Mar
 Apr
 May
 Jun
 Jul
 Aug
 Sep

BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
	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

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) **10,343.9**

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 7/31/2020

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	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
1,338.7	-	1,338.7	889.0	1,338.7	2,227.7	2,227.7	-	-	-	-

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
				-	-
				-	-

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					
Sep					

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 20,446

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 7/31/2020

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	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
1,647.4	124.4	1,771.8	188.7	1,771.8	1,960.5	1,790.6	169.9	-

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
 Jan
 Feb
 Mar
 Apr
 May
 Jun
 Jul
 Aug
 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
				-	-	-
				-	-	-

Month
 Oct
 Nov
 Dec
 Jan
 Feb
 Mar
 Apr
 May
 Jun
 Jul
 Aug
 Sep

BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC			
	Total	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
	3,507.2	2,765.4	741.8	2,260.1	420.9	2,681.0
	3,282.0	2,560.3	721.7	2,260.1	420.9	2,681.0
	3,258.6	2,538.9	719.7	2,260.1	420.9	2,681.0
	3,181.1	2,464.9	716.2	2,260.1	420.9	2,681.0
	3,011.8	2,308.9	702.9	2,260.1	420.9	2,681.0
	2,914.5	2,218.5	696.0	2,260.1	420.9	2,681.0
	2,776.2	2,088.3	687.9	2,260.1	420.9	2,681.0
	2,460.5	1,802.0	658.5	2,284.1	445.9	2,730.0
	2,171.9	1,538.7	633.3	2,320.3	483.7	2,804.0
	1,855.7	1,250.5	605.2	2,363.3	526.7	2,890.0

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 4,745.7

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 7/31/2020

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	-
-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-
1,070.7	1,125.8	2,196.6	79.0	2,196.6	2,275.6	1,105.3	1,170.3	-

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
 Jan
 Feb
 Mar
 Apr
 May
 Jun
 Jul
 Aug
 Sep

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
				-	-	-
				-	-	-

Month
 Oct
 Nov
 Dec
 Jan
 Feb
 Mar
 Apr
 May
 Jun
 Jul
 Aug
 Sep

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

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 3,173.1

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 7/31/2020

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	-	-	-
-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-
15.0	-	15.0	29.6	15.0	44.5	15.4	29.1	-	-	-

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

Month
 Oct
 Nov
 Dec
 Jan
 Feb
 Mar
 Apr
 May
 Jun
 Jul
 Aug
 Sep

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)
				-	-	-
				-	-	-

Month
 Oct
 Nov
 Dec
 Jan
 Feb
 Mar
 Apr
 May
 Jun
 Jul
 Aug
 Sep

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
-	-					
-	-					

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 2,063.3

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 7/31/2020

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			-	-	-	-	-	-	-	-	-	-	-	-
Sep			-	-	-	-	-	-	-	-	-	-	-	-
Total	28,873.0	25,714.0	0.3	9,821.3	2,613.5	12,434.8	1,450.0	12,434.8	13,884.9	11,020.7	2,864.2	-	-	-

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	-	-	-	-
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	-	-	-	-	-	-
Sep	-	-	-	-	-	-

Month	BALANCE - CARRYOVER WATER			BALANCE - CURR YR ALLOC		
	County Parks Usage (AF)	Allocation		Allocation		Total
		M & I	Agr	M & I	Agr	
Oct	1.8	26,891.8	4,935.8	19,571.9	6,112.1	25,684.0
Nov	1.7	25,442.2	4,561.0	19,571.9	6,112.1	25,684.0
Dec	1.2	24,705.0	4,450.9	19,571.9	6,112.1	25,684.0
Jan	1.2	24,033.0	4,377.3	19,571.9	6,112.1	25,684.0
Feb	1.4	22,886.9	4,179.7	19,571.9	6,112.1	25,684.0
Mar	0.9	21,979.1	4,045.2	19,571.9	6,112.1	25,684.0
Apr	0.8	20,847.9	3,934.6	19,571.9	6,112.1	25,684.0
May	0.9	18,999.5	3,492.3	19,696.9	6,087.1	25,784.0
Jun	2.3	17,159.6	3,105.3	19,734.7	6,049.3	25,784.0
Jul	2.9	14,988.1	1,732.2	19,777.7	6,006.3	25,784.0
Aug	-	-	-	-	-	-
Sep	-	-	-	-	-	-

TOTAL CACHUMA PROJECT BALANCE (CARRYOVER + CURRENT YR ALLOCATION) 40,772.1

CACHUMA DAILY OPERATIONS

Month & Year: August 2020

Time of Observations: 0830 Evaporation Pan Factor: 81%

Day	Beginning Storage: 147,954			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	
	<i>ft</i>	<i>acre-feet</i>	<i>acre-feet</i>	<i>acres</i>	<i>inches</i>	<i>acre-feet</i>	<i>inches</i>	<i>acre-feet</i>	<i>acre-feet</i>	<i>acre-feet</i>	<i>acre-feet</i>	<i>acre-feet</i>	<i>acre-feet</i>	<i>acre-feet</i>	<i>acre-feet</i>	<i>acre-feet</i>	
1	736.96	147,826	(128)	2,557	-		0.270	46.6		9.7		64.6	11.7		10.0		(4.8)
2	736.91	147,698	(128)	2,555	-		0.350	60.4		9.7		65.0	11.7		11.0		10.4
3	736.88	147,621	(77)	2,554	-		0.350	60.3		9.7		64.4	11.7		10.0		59.7
4	736.82	147,467	(154)	2,552	-		0.350	60.3		9.7		61.6	11.7		11.0		(19.1)
5	736.77	147,339	(128)	2,550	-		0.280	48.2		0.4		65.8	11.7		10.0		7.3
6	736.72	147,210	(129)	2,548	-		0.260	44.7		-		63.4	11.7		11.0		1.8
7	736.67	147,082	(128)	2,546	-		0.280	48.1		-		62.9	11.7		10.0		4.7
8	736.61	146,928	(154)	2,544	-		0.230	39.5		-		80.1	11.7		11.0		(11.7)
9	736.55	146,777	(151)	2,542	-		0.210	36.0		-		79.1	11.7		11.0		(13.2)
10	736.50	146,650	(127)	2,540	-		0.320	54.9		-		80.4	11.7		10.0		30.0
11	736.44	146,498	(152)	2,538	-		0.390	66.8		-		82.1	11.6		11.0		19.5
12	736.38	146,347	(151)	2,536	-		0.270	46.2		-		81.1	11.6		10.0		(2.1)
13	736.33	146,220	(127)	2,535	-		0.320	54.7		-		82.7	11.6		11.0		33.0
14	736.29	146,119	(101)	2,533	-		0.300	51.3		-		81.5	11.6		10.0		53.4
15	736.25	146,018	(101)	2,532	-		0.380	64.9		-		70.8	11.6		11.0		57.3
16	736.19	145,841	(177)	2,530	-		0.370	63.2		-		63.9	11.6		10.0		(28.3)
17	736.15	145,765	(76)	2,528	-		0.230	39.3		-		63.6	11.6		11.0		49.5
18	736.10	145,638	(127)	2,527	-		0.430	73.3		-		63.3	11.6		11.0		32.2
19	736.06	145,537	(101)	2,525	-		0.270	46.0		-		65.2	11.6		10.0		31.8
20																	
21																	
22																	
23																	
24																	
25																	
26																	
27																	
28																	
29																	
30																	
31																	

TOTALS		(2,417)		-	-	5.860	1,004.8	-	39.2	-	1,341.5	221.4	-	200.0	-	311.5
---------------	--	---------	--	---	---	-------	---------	---	------	---	---------	-------	---	-------	---	-------

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: **JULY 2020****



Cachuma Lake Recreation Area Launch Data -- July 2020		
Vessel Data		
Total Vessels Entering Park	951	
Total Vessels Launched	935	
Total Vessels Quarantined	16	
Returning (Tagged) Boats Launched	606	65%
Kayak/Canoe Launched	329	35%
4-stroke Engines	*	
2-strokes, w/CARB star ratings	*	
2-strokes, NO emissions ratings	*	
Vessel Inspection Data		
Total Vessels Inspected	140	
Boats Inspected	17	
Kayaks/Canoes Inspected	113	
Simple Boats Inspected	10	
Inspections Passed	137	
Inspections Failed	3	All 3 Boats
Quarantine Data		
Total Vessels Quarantined	16	
Quarantined 7 days	*	
Quarantined 14 days	*	
Quarantined 30 days	16	
Quarantine Cause		
Water on vessel*	*	
Debris on hull*	*	
Plug installed*	*	
From infected county	5	
Ballast tanks*	*	
Boat longer than 24 feet*	*	
Out-of-state	0	
Unspecified*	*	
Mandatory Quarantine All Untagged Boats	16	
Demographic Data		
Quarantined from infected county	5	
Quarantined from SB County	11	
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: 2020.07.31; 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 737.00; Max acre-feet: 193,305, current: 147,929;

Current capacity: 76.5%

Prepared based on inspections and data collected by Cachuma Lake Staff, Park Camp Hosts, and volunteers.

G:\PARKS-OPERATIONS\MID COUNTY\CACHUMA\QUAGGA MUSSELS\QUAGGA INSPECTIONS & INSPECTION REPORTS\CACHUMA AQUATIC INVASIVE SPECIES REPORTS\CACHUMA AIS REPORTS\CACHUMA AIS REPORTS 2020\AIS INSPECTION SURVEY SUMMARY 2020.07.DOC