

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

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

Monday, May 23, 2016

2:00 P.M.

AGENDA

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. Please make your comments from the podium once acknowledged by the President of the Board.)
3. **CONSENT AGENDA** (All items on the Consent Agenda are considered to be routine and will be approved or rejected in a single motion. Any item placed on the Consent Agenda may be removed and placed on the Regular Agenda for discussion and possible action upon the request of any Board Member.)
Action: Recommend Approval of Consent Agenda by motion and roll call vote of the Board:
 - a. Minutes April 25, 2016 Regular Board Meeting
 - b. Investment of Funds
 - Financial Reports
 - Investment Reports
 - c. Review of Paid Claims
 - d. Review of Pending Claims for Payment
4. **VERBAL REPORTS FROM BOARD COMMITTEES**
Receive verbal information regarding the following committee meetings:
 - Fisheries Committee Meeting – May 6, 2016
 - Operations Committee Meeting – May 10, 2016
5. **CUSHMAN CONTRACTING CORPORATION (CCC) – CHANGE ORDER NO. 12**
Action: Recommend approval by motion and roll call vote of the Board
6. **GENERAL MANAGER REPORT**
Receive information from the Interim General Manager on topics pertaining to COMB, including but not limited to the following:
 - COMB Fiscal Year 2016-17 Draft Operating Budget
 - Cachuma Member Unit Managers Meeting
 - Operations Division Activities
 - Fisheries Division Activities

7. **OPERATIONS DIVISION REPORT**
Receive information regarding Operations Division, including but not limited to the following:
 - Lake Cachuma Operations
 - Operation and Maintenance Activities

8. **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

9. **RESOLUTION NO. 612 – APPROVING EXPENDITURES FOR THE CONSTRUCTION OF THE FISH PASSAGE IMPROVEMENT AT QUIOTA CREEK CROSSING NUMBER 0a**
Action: Recommend approval by motion and roll call vote of the Board

10. **FISH PASSAGE IMPROVEMENT PROJECT – QUIOTA CREEK CROSSING NO. 8 CONSTRUCTION COOPERATIVE AGREEMENT**
Action: Recommend approval by motion and roll call vote of the Board

11. **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

12. **LAKE CACHUMA OAK TREE RESTORATION PROGRAM – WATER TRUCK PURCHASE**
Action: Recommend approval by motion and roll call vote of the Board

13. **MONTHLY CACHUMA PROJECT REPORTS**
Receive information regarding the Cachuma Project, including but not limited to the following:
 - a. Cachuma Water Reports
 - b. Cachuma Reservoir Current Conditions
 - c. Lake Cachuma Quagga Survey

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

15. **[CLOSED SESSION]: CONFERENCE WITH LEGAL COUNSEL: EXISTING AND POTENTIAL LITIGATION**
 - a. [Government Code Section 54956.9(d)(4)]
Name of matter: Protest of Member Agency re: Payment of Quarterly Assessments

16. **RECONVENE INTO OPEN SESSION**
[Government Code Section 54957.7]
Disclosure of actions taken in closed session, as applicable
[Government Code Section 54957.1]

- a. Protest of Member Agency re: Payment of Quarterly Assessments

17. **MEETING SCHEDULE**

- **June 27, 2016 at 2:00 P.M., COMB Office**
- **Board Packages Available on COMB Website**
www.cachuma-board.org

18. **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.

**MINUTES OF A REGULAR MEETING
of the
CACHUMA OPERATION & MAINTENANCE BOARD**

held at
3301 Laurel Canyon Road, Santa Barbara, CA
Monday, April 25, 2016

1. Call to Order, Roll Call

The meeting was called to order at 2:00 p.m. by President Doug Morgan who chaired the meeting. Those in attendance were:

Directors present:

Doug Morgan	Montecito Water District
Harwood "Bendy" White	City of Santa Barbara
Polly Holcombe	Carpinteria Valley Water District
Lauren Hanson	Goleta Water District

Others present:

Janet Gingras	Amy Smith
Tim Robinson	Adelle Capponi
Phil Walker	William Carter
Bob McDonald	Charles Hamilton
Joshua Haggmark	Tyrone Lafay
Cathy Murillo	

2. Public Comment

Phil Walker spoke to recent seismic events around the globe and noted that, with lake level so low, the present would be an opportune time for seismic reliability studies to be performed on Cachuma Project facilities.

3. Consent Agenda

a. Minutes

March 7, 2016 Special Board Meeting
March 28, 2016 Regular Board Meeting

b. Investment Funds

Financial Reports
Investment Reports

c. Review of Paid Claims

d. Review of Pending Claims for Payment

Director Hanson moved to approve the consent agenda, as presented. Following staff explanation of several paid claims, Director Holcombe seconded the motion, which carried 6/0/1 as follows:

Ayes: White, Holcombe, Hanson, Morgan

Nays: None

Absent/Abstain: Walsh

4. Appointment of Representative to Cachuma Project Trust Fund and Renewal Fund Committee and Betterment Fund Use of Funds Discussion

Director Holcombe moved to appoint COMB General Manager, Ms. Janet Gingras, as representative to Cachuma Project Trust Fund and Renewal Fund Committee and Betterment Fund Use of Funds Discussion. Following inquiry into the history of the funds by Director White, Ms. Gingras explained the significance of the annual meeting and discussion. Seconded by Director Hanson, the motion carried 6/0/1 as follows:

Ayes: White, Holcombe, Hanson, Morgan

Nays: None

Absent/Abstain: Walsh

5. Lauro Stop Valve Replacement Project

Director Hanson moved to approve authorizing the General Manager to issue a purchase order to the vendor recommended by HDR Engineering, Inc. (HDR) for the purchase of a replacement valve in an amount not-to-exceed \$25,000. Ms. Gingras explained that COMB has engaged HDR for engineering design services on the project, and hopes to time the installation of the replacement valve in conjunction with the system shutdown for barge relocation, although that has not yet been confirmed. Seconded by Director Holcombe, the motion carried 6/0/1 as follows:

Ayes: White, Holcombe, Hanson, Morgan

Nays: None

Absent/Abstain: Walsh

6. General Manager Report

- *COMB Fiscal Year 2016-17 Operating Budget Development Process*
- *IRWMP Proposition 84 Grant Reimbursement*
- *Cachuma Member Unit Managers Meeting*
- *Operations Division Activities*
- *Fisheries Division Activities*

Ms. Gingras, General Manager, highlighted topics within her report, as incorporated in the board packet. The Directors facilitated lengthy discussion on several pressing concerns including allocating unaccounted-for water, managing SWP deliveries in regards to the delivery pipeline's capacity as well as projected evaporative losses on said deliveries, and

the future of fish releases to the Outlet Works and Hilton Creek. The Board suggested staff tentatively schedule a Special Board meeting on May 9, 2016 to consider authorizing the General Manager to correspond in writing with the U.S. Bureau of Reclamation regarding an action plan for decreasing or ceasing certain fish releases below Bradbury Dam.

7. Operations Division Report

- *Lake Cachuma Operations*
- *Operation and Maintenance Activities*

In the absence of Mr. Dave Stewart, Operations Division Manager, Ms. Gingras summarized the report, as presented in the board packet. There were no questions from the Board.

8. Fisheries Division Report

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

Dr. Tim Robinson, Fisheries Division Manager, noted features as presented in his report in the board packet and offered to field any questions from the Board.

9. Progress Report on Lake Cachuma Oak Tree Program

- *Maintenance and Monitoring*

Dr. Robinson gave a concise review of the status of the project, notifying the Board that staff recently rented a water truck for assistance with the ongoing and somewhat cumbersome watering efforts of the program. President Morgan requested that Ms. Gingras inquire with the County regarding its plan for managing infestation risk of the Gold-Spotted Oak Borer, an invasive pest recently discovered in neighboring San Diego County.

10. Monthly Cachuma Project Reports

The reports were included in the board packet for information.

11. Directors' Requests for Agenda Items for Future Meeting

Members of the Fisheries Committee, Director Holcombe and Director Hanson, requested that a Fisheries Committee meeting be scheduled sometime in the immediate future.

Director Holcombe reminded Ms. Gingras to contact CalFIRE in hopes that someone from the organization may be available to speak with the Board at an upcoming board meeting.

12. Meeting Schedule

- The next Regular Board meeting will be held May 23, 2016 at 2:00 p.m.
- The Agendas and Board Packets are available on the COMB website at www.cachuma-board.org

13. COMB Adjournment

There being no further business, the meeting was adjourned at 3:24 p.m.

Respectfully submitted,

Janet Gingras, Secretary of the Board

APPROVED:

Doug Morgan, President of the Board

	<i>Approved</i>
√	<i>Unapproved</i>

COMB
Statement of Net Assets
As of April 30, 2016

ASSETS**Current Assets****Checking/Savings****TRUST FUNDS**

1210 · WARREN ACT TRUST FUND

587,106.64

1220 · RENEWAL FUND

10,215.61

Total TRUST FUNDS

597,322.25

1050 · GENERAL FUND

2,262,612.07

1100 · REVOLVING FUND

179,236.04

Total Checking/Savings

3,039,170.36

Other Current Assets

1010 · PETTY CASH

500.00

1200 · LAIF

9,996.89

1303 · Bradbury SOD Act Assmnts Rec

83,283.00

1304 · Lauro Dam SOD Assesmnt Rec

14,447.00

1315 · Assessments Rec

-89.74

1400 · PREPAID INSURANCE

24,900.72

Total Other Current Assets

133,037.87

Total Current Assets

3,172,208.23

Fixed Assets

1500 · VEHICLES

409,581.12

1505 · OFFICE FURN & EQUIPMENT

432,634.46

1510 · MOBILE OFFICES

97,803.34

1515 · FIELD EQUIPMENT

542,025.24

1525 · PAVING

38,351.00

1550 · ACCUMULATED DEPRECIATION

-1,320,829.64

Total Fixed Assets

199,565.52

Other Assets

1910 · LT Bradbury SOD Act Assess Rec

5,250,759.07

1920 · LT Lauro SOD Act Assess Rec

940,342.00

1922 · Deferred Outflows of Resources (GASB 68)

136,562.00

Total Other Assets

6,327,663.07

TOTAL ASSETS**9,699,436.82**

COMB
Statement of Net Assets
As of April 30, 2016

LIABILITIES & NET ASSETS**Liabilities****Current Liabilities****Accounts Payable**

2200 · ACCOUNTS PAYABLE

579,643.85

Total Accounts Payable579,643.85**Other Current Liabilities**

Payroll-DepPrm Admin

42.75

Payroll-DepPrm FD

10.62

Payroll-DepPrm Ops

228.13

2505 · ACCRUED WAGES

31,189.78

2550 · VACATION/SICK

142,912.32

2561 · BRADBURY DAM SOD ACT

83,283.66

2563 · LAURO DAM SOD ACT

14,447.00

2565 · ACCRUED INTEREST SOD ACT

87,008.00

2590 · DEFERRED REVENUE

597,396.70

Total Other Current Liabilities956,518.96**Total Current Liabilities**

1,536,162.81

Long Term Liabilities

2602 · LT SOD Act Liability-Bradbury

5,250,759.07

2603 · LT SOD Act Liability - Lauro

940,342.00

2604 · OPEB LT Liability

746,491.00

2605 · Loan Payable - EPFP

2,601,317.00

2610 · Net Pension Liability (GASB 68)

1,120,314.00

2611 · Deferred Inflows of Resources (GASB 68)

348,168.00

Total Long Term Liabilities11,007,391.07**Total Liabilities**

12,543,553.88

NET POSITION

3000 · Opening Bal Equity

-1,357,356.05

3901 · Retained Net Assets

-1,591,460.37

Net Income

104,699.36

Total Net Assets-2,844,117.06**TOTAL LIABILITIES & NET POSITION**9,699,436.82

comb2
Statement of Revenues and Expenditures
Budget vs. Actuals July 2015 - Jun 2016

	Fisheries			Operations			TOTAL		
	Jul '15 - Apr 16	Budget	% of Budget	Jul '15 - Apr 16	Budget	% of Budget	Jul '15 - Apr 16	Budget	% of Budget
Income									
3000 REVENUE									
3001 - O&M Budget (Qtrly Assessments)	518,545.00	1,099,077.00	47.18%	3,257,720.00	5,651,050.00	-2,393,330.00	3,776,265.00	6,750,127.00	55.94%
3006 - Warren Act	359,428.43	571,728.00	62.87%	0.00			359,428.43	571,728.00	62.87%
3007 - Renewal Fund	0.00			0.00			0.00	0.00	0.0%
3010 - Interest Income	0.00			2,182.08			2,182.08	2,182.08	100.0%
3020 - Misc Income	26.25			1,956.03			1,982.28	1,982.28	100.0%
3032 - Grant-QC Crossing #3	705,205.00	705,205.00	100.0%	0.00			705,205.00	705,205.00	100.0%
3033 - Grant-QC Crossing #0 (a&b)	0.00	0.00	0.0%	0.00			0.00	0.00	0.0%
3035 - Cachuma Project Betterment Fund	78,155.50	90,000.00	86.84%	0.00			78,155.50	90,000.00	86.84%
Total 3000 REVENUE	1,661,360.18	2,466,010.00	67.37%	3,261,858.11	5,651,050.00	-2,389,191.89	4,923,218.29	8,117,060.00	60.65%
Total Income	1,661,360.18	2,466,010.00	67.37%	3,261,858.11	5,651,050.00	-2,389,191.89	4,923,218.29	8,117,060.00	60.65%
Gross Profit	1,661,360.18	2,466,010.00	67.37%	3,261,858.11	5,651,050.00	-2,389,191.89	4,923,218.29	8,117,060.00	60.65%
Expense									
PAYROLL									
Gross	0.00			0.00			0.00	0.00	0.0%
Gross-FD	0.00			0.00			0.00	0.00	0.0%
Total PAYROLL	0.00			0.00			0.00	0.00	0.0%
3100 - LABOR - OPERATIONS	0.00			513,760.62	815,197.00	-301,436.38	513,760.62	815,197.00	63.02%
3200 VEH & EQUIPMENT									
3201 - Vehicle/Equip Mtce	0.00			20,046.71	30,000.00	-9,953.29	20,046.71	30,000.00	66.82%
3202 - Fixed Capital	0.00			7,906.71	15,000.00	-7,093.29	7,906.71	15,000.00	52.71%
3203 - Equipment Rental	0.00			1,421.39	5,000.00	-3,578.61	1,421.39	5,000.00	28.43%
3204 - Miscellaneous	0.00			4,884.58	5,000.00	-115.42	4,884.58	5,000.00	97.69%
Total 3200 VEH & EQUIPMENT	0.00			34,259.39	55,000.00	-20,740.61	34,259.39	55,000.00	62.29%
3300 - CONTRACT LABOR									
3301 - Conduit, Meter, Valve & Misc	0.00			5,206.50	20,000.00	-14,793.50	5,206.50	20,000.00	26.03%
3302 - Buildings & Roads	0.00			1,250.00	20,000.00	-18,750.00	1,250.00	20,000.00	6.25%
3303 - Reservoirs	0.00			1,800.00	30,000.00	-28,200.00	1,800.00	30,000.00	6.0%
3304 - Engineering, Misc Services	0.00			0.00	25,000.00	-25,000.00	0.00	25,000.00	0.0%
Total 3300 - CONTRACT LABOR	0.00			8,256.50	95,000.00	-86,743.50	8,256.50	95,000.00	8.69%
3400 - MATERIALS & SUPPLIES									
3401 - Conduit, Meter, Valve & Misc	0.00			9,853.98	65,000.00	-55,146.02	9,853.98	65,000.00	15.16%
3402 - Buildings & Roads	0.00			5,781.18	15,000.00	-9,218.82	5,781.18	15,000.00	38.54%
3403 - Reservoirs	0.00			3,380.92	10,000.00	-6,619.08	3,380.92	10,000.00	33.81%
Total 3400 - MATERIALS & SUPPLIES	0.00			19,016.08	90,000.00	-70,983.92	19,016.08	90,000.00	21.13%
3500 - OTHER EXPENSES									
3501 - Utilities	0.00			5,851.46	7,000.00	-1,148.54	5,851.46	7,000.00	83.59%
3502 - Uniforms	0.00			1,672.63	5,000.00	-3,327.37	1,672.63	5,000.00	33.45%
3503 - Communications	0.00			15,209.55	18,000.00	-2,790.45	15,209.55	18,000.00	84.5%
3504 - USA & Other Services	0.00			1,315.50	4,000.00	-2,684.50	1,315.50	4,000.00	32.89%

comb2
Statement of Revenues and Expenditures
Budget vs. Actuals July 2015 - Jun 2016

	Fisheries			Operations			TOTAL		
	Jul '15 - Apr 16	Budget	% of Budget	Jul '15 - Apr 16	Budget	% of Budget	Jul '15 - Apr 16	Budget	% of Budget
3505 - Miscellaneous	0.00			7,236.87	8,000.00	90.46%	7,236.87	8,000.00	90.46%
3506 - Training	0.00			300.00	3,000.00	10.0%	300.00	3,000.00	10.0%
Total 3500 - OTHER EXPENSES	0.00	0.00	0.00	31,586.01	45,000.00	70.19%	31,586.01	45,000.00	70.19%
4100 - LABOR - FISHERIES	472,024.44	549,994.00	85.82%	0.00			472,024.44	549,994.00	85.82%
4200 - VEHICLES & EQUIP - FISHERIES	12,524.90	13,000.00	96.35%	0.00	0.00	0.00	12,524.90	13,000.00	96.35%
4270 - Vehicle/Equip Mtce	692.19	15,000.00	4.62%	0.00			692.19	15,000.00	4.62%
4280 - Fixed Capital	1,188.70	2,500.00	47.55%	0.00			1,188.70	2,500.00	47.55%
4290 - Miscellaneous	14,405.79	30,500.00	47.23%	0.00			14,405.79	30,500.00	47.23%
Total 4200 - VEHICLES & EQUIP - FISHERIES	16,094.21	16,094.21	47.23%	0.00	0.00	0.00	16,094.21	16,094.21	47.23%
4220 - CONTRACT LABOR - FISHERIES	0.00	3,000.00	0.0%	0.00	0.00	0.0%	0.00	3,000.00	0.0%
4221 - Meters & Valves	10,079.02	40,000.00	25.2%	0.00			10,079.02	40,000.00	25.2%
4222 - Fish Projects Maintenance	10,079.02	43,000.00	23.44%	0.00			10,079.02	43,000.00	23.44%
Total 4220 - CONTRACT LABOR - FISHERIES	16,210.03	7,000.00	23.16%	0.00	0.00	0.00	16,210.03	7,000.00	23.16%
4300 - MATERIALS/SUPPLIES - FISHERIES	968.14	2,500.00	38.73%	968.14	2,500.00	38.73%	968.14	2,500.00	38.73%
4390 - Miscellaneous	968.14	2,500.00	38.73%	0.00			968.14	2,500.00	38.73%
Total 4300 - MATERIALS/SUPPLIES - FISHERIES	1,621.03	7,000.00	23.16%	0.00	0.00	0.00	1,621.03	7,000.00	23.16%
4500 - OTHER EXPENSES - FISHERIES	0.00	2,000.00	0.0%	0.00	2,000.00	0.0%	0.00	2,000.00	0.0%
4502 - Uniforms	0.00			987.95	2,000.00	49.4%	987.95	2,000.00	49.4%
Total 4500 - OTHER EXPENSES - FISHERIES	0.00	2,000.00	0.0%	987.95	2,000.00	49.4%	987.95	2,000.00	49.4%
4999 - GENERAL & ADMINISTRATIVE	0.00	11,000.00	0.0%	9,651.20	11,000.00	87.74%	9,651.20	11,000.00	87.74%
5000 - Director Fees	0.00			10,639.15	13,000.00	81.84%	10,639.15	13,000.00	81.84%
5001 - Director Mileage	0.00			23,696.33	100,000.00	23.7%	23,696.33	100,000.00	23.7%
5000 - Director Fees - Other	0.00			15,784.05	20,000.00	78.92%	15,784.05	20,000.00	78.92%
Total 5000 - Director Fees	0.00	13,000.00	0.0%	10,639.15	13,000.00	81.84%	10,639.15	13,000.00	81.84%
5100 - Legal	0.00			23,696.33	100,000.00	23.7%	23,696.33	100,000.00	23.7%
5101-1 - Audit	0.00			15,784.05	20,000.00	78.92%	15,784.05	20,000.00	78.92%
5150 - Unemployment Tax	0.00			287.83	5,000.00	5.76%	287.83	5,000.00	5.76%
5200 - Liability Insurance	0.00			43,641.65	42,705.00	102.19%	43,641.65	42,705.00	102.19%
5201 - Health & Workers Comp	0.00			130,899.79	180,093.00	72.69%	130,899.79	180,093.00	72.69%
5250 - PERS	0.00			32,996.93	58,420.00	56.48%	32,996.93	58,420.00	56.48%
5260 - Company FICA Admin	0.00			10,568.47	20,754.00	50.92%	10,568.47	20,754.00	50.92%
5265 - Company MCARE Admin	0.00			2,883.90	4,854.00	59.41%	2,883.90	4,854.00	59.41%
5300 - LABOR ADMINISTRATIVE	0.00			182,901.93	276,250.00	66.21%	182,901.93	276,250.00	66.21%
5310 - Postage/Office Exp	0.00			4,561.93	8,000.00	57.02%	4,561.93	8,000.00	57.02%
5311 - Office Equip/Leases	0.00			6,775.20	8,000.00	84.69%	6,775.20	8,000.00	84.69%
5312 - Misc Admin Expenses	0.00			8,721.51	10,790.00	80.83%	8,721.51	10,790.00	80.83%
5313 - Communications	0.00			6,053.68	8,500.00	71.22%	6,053.68	8,500.00	71.22%
5314 - Utilities	0.00			8,516.13	9,737.00	87.46%	8,516.13	9,737.00	87.46%
5315 - Membership Dues	0.00			7,908.00	8,000.00	98.85%	7,908.00	8,000.00	98.85%
5316 - Admin Fixed Assets	0.00			0.00	4,000.00	0.0%	0.00	4,000.00	0.0%
5317 - Computer Consultant	0.00			12,122.31	15,000.00	80.82%	12,122.31	15,000.00	80.82%
5318 - Administrative Consultant	0.00			16,228.56	16,250.00	99.87%	16,228.56	16,250.00	99.87%
5319 - Camp Training/Subscriptions	0.00			83.67	2,000.00	4.18%	83.67	2,000.00	4.18%

comb2
Statement of Revenues and Expenditures
Budget vs. Actuals July 2015 - Jun 2016

	Fisheries			Operations			TOTAL		
	Jul '15 - Apr '16	Budget	% of Budget	Jul '15 - Apr '16	Budget	% of Budget	Jul '15 - Apr '16	Budget	% of Budget
5330 - Admin Travel/Conferences	0.00			203.96	2,000.00	-1,796.04	203.96	2,000.00	-1,796.04
5331 - Public Information	0.00			331.67	1,000.00	-668.33	331.67	1,000.00	-668.33
5352 - Program Analyst	0.00			0.00	42,250.00	-42,250.00	0.00	42,250.00	-42,250.00
Total 4999 - GENERAL & ADMINISTRATIVE	0.00	856,603.00	61.38%	525,806.65	856,603.00	-330,796.35	525,806.65	856,603.00	-330,796.35
5400 - GENERAL & ADMIN - FISHERIES									
5401 - Health & Workers Comp.	21,222.25	44,184.00	48.03%	0.00			21,222.25	44,184.00	-22,961.75
5402 - CalPERS	17,767.67	31,457.00	56.48%	0.00			17,767.67	31,457.00	-13,689.33
5403 - Company Fica	5,163.65	11,175.00	46.21%	0.00			5,163.65	11,175.00	-6,011.35
5406 - Company MCar	1,429.50	2,614.00	54.69%	0.00			1,429.50	2,614.00	-1,184.50
5407 - Legal - FD	49,587.70	25,000.00	198.35%	0.00			49,587.70	25,000.00	24,587.70
5408 - LABOR ADMINISTRATIVE	98,485.72	148,750.00	66.21%	0.00			98,485.72	148,750.00	-50,264.28
5410 - Postage / Office Supplies	2,332.02	3,000.00	77.73%	0.00			2,332.02	3,000.00	-667.98
5411 - Office Equipment / Leases	3,648.06	5,218.00	69.91%	0.00			3,648.06	5,218.00	-1,569.94
5412 - Misc. Admin Expense	3,887.41	5,810.00	66.91%	0.00			3,887.41	5,810.00	-1,922.59
5413 - Communications	3,754.96	4,305.00	87.22%	0.00			3,754.96	4,305.00	-550.04
5414 - Utilities	4,585.41	5,243.00	87.46%	0.00			4,585.41	5,243.00	-657.59
5415 - Membership Dues	4,122.00	4,000.00	103.05%	0.00			4,122.00	4,000.00	122.00
5416 - Admin Fixed Assets	0.00	4,000.00	0.0%	0.00			0.00	4,000.00	-4,000.00
5418 - Computer Consultant	6,591.03	5,000.00	131.82%	0.00			6,591.03	5,000.00	1,591.03
5421 - Administrative Consultant	8,738.46	8,750.00	99.87%	0.00			8,738.46	8,750.00	-11.54
5425 - Employee Education/Subsctiion	45.06	2,500.00	1.8%	0.00			45.06	2,500.00	-2,454.94
5426 - Director Fees	5,196.80	6,000.00	86.61%	0.00			5,196.80	6,000.00	-803.20
5427 - Director Mileage	532.00	1,000.00	53.2%	0.00			532.00	1,000.00	-468.00
5430 - Travel	1,717.52	2,500.00	68.7%	0.00			1,717.52	2,500.00	-782.48
5431 - Public Information	1,178.60	1,500.00	78.57%	0.00			1,178.60	1,500.00	-321.40
5441 - Audit	8,460.95	6,300.00	134.3%	0.00			8,460.95	6,300.00	2,160.95
5443 - Liab & Property Ins	23,499.35	21,595.00	108.82%	0.00			23,499.35	21,595.00	1,904.35
5452 - Program Analyst	0.00	22,750.00	0.0%	0.00			0.00	22,750.00	-22,750.00
Total 5400 - GENERAL & ADMIN - FISHERIES	271,946.12	372,651.00	72.98%	0.00	-100,704.88		271,946.12	372,651.00	-100,704.88
5510 - Integrated Reg. Water Mgt Plan	0.00			2,588.00	5,000.00	-2,412.00	2,588.00	5,000.00	-2,412.00
6000 - SPECIAL PROJECTS									
6062 - SCADA	0.00			5,735.11	25,000.00	-19,264.89	5,735.11	25,000.00	-19,264.89
6090 - COMB Office Building	0.00			7,622.99	290,000.00	-282,377.01	7,622.99	290,000.00	-282,377.01
6096 - SCC Structure Rehabilitation	0.00			386.99	240,000.00	-239,613.01	386.99	240,000.00	-239,613.01
6097 - GIS and Mapping	0.00			7,057.00	10,000.00	-2,943.00	7,057.00	10,000.00	-2,943.00
6100 - Watershed Sanitary Survey	0.00			0.00	54,000.00	-54,000.00	0.00	54,000.00	-54,000.00
6105 - ROW Management Program	0.00			15,935.75	20,000.00	-4,064.25	15,935.75	20,000.00	-4,064.25
6109 - NP Jet Flow Control Valve	0.00			874.80			874.80	0.00	874.80
6111 - Mission Crk Pipe Temp Repair	0.00			55,485.41	60,000.00	-4,514.59	55,485.41	60,000.00	-4,514.59
6118 - Repair Lateral 3 Structure	0.00			0.00	20,000.00	-20,000.00	0.00	20,000.00	-20,000.00
6120 - Emergency Pumping Fac Project	0.00			1,783,503.17	2,709,250.00	-925,746.83	1,783,503.17	2,709,250.00	-925,746.83
6122 - Rehab San Antonio Crk Blow-off	0.00			0.00	10,000.00	-10,000.00	0.00	10,000.00	-10,000.00
6123 - Sheffeld Tunnel Insp/Eval SCC	0.00			0.00	46,000.00	-46,000.00	0.00	46,000.00	-46,000.00
6124 - Slop Stabilization	0.00			8,941.00	10,000.00	-1,059.00	8,941.00	10,000.00	-1,059.00
6127 - Encroachment-Tree/Veg Overgrow	0.00			0.00	25,000.00	-25,000.00	0.00	25,000.00	-25,000.00
6128 - Sauru Tunnel Pipe Support Eval	0.00			0.00	30,000.00	-30,000.00	0.00	30,000.00	-30,000.00

comb2
Statement of Revenues and Expenditures
Budget vs. Actuals July 2015 - Jun 2016

	Fisheries			Operations			TOTAL		
	Jul '15 - Apr '16	Budget	% of Budget	Jul '15 - Apr '16	Budget	% of Budget	Jul '15 - Apr '16	Budget	% of Budget
6129 - Rehab SCC LR Lateral Structures	0.00			0.00	50,000.00	0.0%	0.00	50,000.00	0.0%
6130 - NP Slope Stabilization	0.00			0.00	90,000.00	0.0%	0.00	90,000.00	0.0%
Total 6000 - SPECIAL PROJECTS	0.00			1,885,542.22	3,689,250.00	51.11%	1,885,542.22	3,689,250.00	51.11%
6200 - FISHERIES ACTIVITIES									
6201 - FMP Implementation	9,391.57	100,000.00	9.39%	0.00			9,391.57	100,000.00	9.39%
6202 - GIS and Mapping	4,862.40	10,000.00	48.62%	0.00			4,862.40	10,000.00	48.62%
6203 - Grants Technical Support	2,070.00	10,000.00	20.7%	0.00			2,070.00	10,000.00	20.7%
6204 - SYR Hydrology Technical Support	1,582.57	10,000.00	15.83%	0.00			1,582.57	10,000.00	15.83%
6205 - USGS Stream Gauge Program	76,550.00	77,000.00	99.42%	0.00			76,550.00	77,000.00	99.42%
6206 - Tri County Fish Team Funding	0.00	5,000.00	0.0%	0.00			0.00	5,000.00	0.0%
6207 - Oak Tree Restoration Program	49,087.27	100,000.00	49.09%	0.00			49,087.27	100,000.00	49.09%
6209 - SYR Riverware Model Peer Review	0.00	0.00	0.0%	0.00			0.00	0.00	0.0%
6211 - SYR RiverWare Model Use	0.00	0.00	0.0%	0.00			0.00	0.00	0.0%
Total 6200 - FISHERIES ACTIVITIES	143,543.81	312,000.00	46.01%	0.00			143,543.81	312,000.00	46.01%
6300 - HABITAT ENHANCEMENT									
6303 - Tributary Projects Support	0.00	20,000.00	0.0%	0.00			0.00	20,000.00	0.0%
6312 - Quiota Creek Crossing 0 (a&b)	25,169.78	138,365.00	18.19%	0.00			25,169.78	138,365.00	18.19%
6313 - Quiota Creek Crossing 3	833,022.60	930,000.00	89.57%	0.00			833,022.60	930,000.00	89.57%
6314 - Quiota Creek Crossing 4	13,323.81	30,000.00	44.41%	0.00			13,323.81	30,000.00	44.41%
6315 - Quiota Creek Crossing 8	11,598.70	20,000.00	57.99%	0.00			11,598.70	20,000.00	57.99%
6316 - Quiota Creek Crossing 5	0.00	10,000.00	0.0%	0.00			0.00	10,000.00	0.0%
Total 6300 - HABITAT ENHANCEMENT	883,114.89	1,148,365.00	76.9%	0.00			883,114.89	1,148,365.00	76.9%
Total Expense	1,797,703.24	2,466,010.00	72.9%	3,020,815.69	5,651,050.00	53.46%	4,818,518.93	8,117,060.00	59.36%
Net Income	-136,343.06	0.00	100.0%	241,042.42	0.00	100.0%	104,699.36	0.00	100.0%

Local Agency Investment Fund
 P.O. Box 942809
 Sacramento, CA 94209-0001
 (916) 653-3001

www.treasurer.ca.gov/pmia-laif/laif.asp
 May 02, 2016

CACHUMA OPERATION AND MAINTENANCE BOARD

GENERAL MANAGER
 3301 LAUREL CANYON ROAD
 SANTA BARBARA, CA 93105-2017

PMIA Average Monthly Yields

Tran Type Definitions

April 2016 Statement

Effective Date	Transaction Date	Tran Type	Confirm Number	Authorized Caller	Amount
4/15/2016	4/14/2016	QRD	1497622	SYSTEM	378.73
4/26/2016	4/26/2016	RW	1500593	JANET GINGRAS	-270,000.00

Account Summary

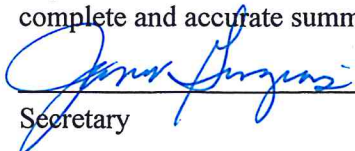
Total Deposit:	378.73	Beginning Balance:	279,618.16
Total Withdrawal:	-270,000.00	Ending Balance:	9,996.89

MEMO TO: Board of Directors
 Cachuma Operation & Maintenance Board

FROM: Janet Gingras, Secretary

SUBJECT: COMB INVESTMENT POLICY

The above statement of investment activity for the month of April, 2016, 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 LAIF investments of this agency for the period indicated.


 Secretary

AMERICAN RIVIERA BANK

P.O. Box 329, Santa Barbara, California 93102
805-965-5942 www.americanrivierabank.com

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MAY 09 2016

CACHUMA O & M BOARD

PAGE 1

CACHUMA OPERATION AND MAINTENANCE BOARD
RENEWAL ACCOUNT
3301 LAUREL CANYON RD
SANTA BARBARA CA 93105-2017

ACCOUNT ANALYSIS CHECKING

ACCOUNT NO 705011530
STATEMENT DATE 04/29/2016
LAST STATEMENT DATE 03/31/2016


0	STATEMENT PERIOD		
PREVIOUS BALANCE	10,215.61	# OF DAYS-STMT PERIOD	29
0 DEPOSITS/CREDITS	0.00		
0 CHECKS/WITHDRAWALS	0.00	AVERAGE BALANCE	10,215.61
ENDING BALANCE	10,215.61		
TOTAL SRV CHG TODAY	0.00	YTD INTEREST	0.00

MEMO TO: Board of Directors
Cachuma Operation & Maintenance Board

FROM: Janet Gingras, Secretary

SUBJECT: COMB INVESTMENT POLICY

The above statement of investment activity for the month of April, 2016, 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 investments of this agency for the period indicated.


Secretary

AMERICAN RIVIERA BANK

P.O. Box 329, Santa Barbara, California 93102
805-965-5942 www.americanrivierabank.com

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MAY 09 2016

CACHUMA O & M BOARD

PAGE 1

CACHUMA OPERATION AND MAINTENANCE BOARD
WARREN ACCT TRUST FUND
3301 LAUREL CANYON RD
SANTA BARBARA CA 93105-2017

ACCOUNT ANALYSIS CHECKING

ACCOUNT NO 705011543
STATEMENT DATE 04/29/2016
LAST STATEMENT DATE 03/31/2016

1	STATEMENT PERIOD		
PREVIOUS BALANCE	347,236.52	# OF DAYS-STMT PERIOD	29
2 DEPOSITS/CREDITS	369,373.00		
1 CHECKS/WITHDRAWALS	129,502.88	AVERAGE BALANCE	427,916.11
ENDING BALANCE	587,106.64		
TOTAL SRV CHG TODAY	0.00	YTD INTEREST	0.00

MEMO TO: Board of Directors
Cachuma Operation & Maintenance Board

FROM: Janet Gingras, Secretary

SUBJECT: COMB INVESTMENT POLICY

The above statement of investment activity for the month of April, 2016, 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 investments of this agency for the period indicated.


Secretary

Date	Num	Name	Memo	Amount
1050 - GENERAL FUND				
04/06/2016	24427	American Riviera Bank (ARB)	Loan interest payment #20-Mar	-6,810.39
04/06/2016	24428	Musick, Peeler & Garrett LLP	General Counsel-Jan	-3,562.00
04/13/2016	24429	ACWA-Joint Powers Insurance Authority	Workers Comp Program 1/1-3/31/16	-8,727.00
04/13/2016	24430	ACWA/Joint Powers Insurance Authority	Employee Fidelity Program 4/1/16-4/1/17	-1,188.00
04/13/2016	24431	AT&T	Mar charges	-565.19
04/13/2016	24432	Bob Murray & Associates	GM Recruitment	-997.33
04/13/2016	24433	C. Philip Brittain	Phone line issue/install mag & 10" meter-NP	-770.00
04/13/2016	24434	City of Santa-Barbara	Trash/Recycle-Mar 2016	-217.82
04/13/2016	24435	Culligan of Sylmar	Monthly RO system-Apr	-25.95
04/13/2016	24436	Draganchuk Alarm Systems	Alarm system monitoring 4/1-6/30/16	-82.50
04/13/2016	24437	ECHO Communications	Monthly answering service	-62.00
04/13/2016	24438	Famcon Pipe & Supply	Bolts/nuts/gaskets-NP meter replacement (Ops Div)	-76.39
04/13/2016	24439	Giffin Rental & Western Welding	Trash rack replacement mat/supp (Ops Div)	-562.14
04/13/2016	24440	Harwood White	Mar mtg fees	-264.95
04/13/2016	24441	Home Depot Credit Services	Trimmer/weed wacker parts/misc mtce supplies	-1,070.15
04/13/2016	24442	Ian's Tire & Auto Repair	Explorer-tires/balancing; Colorado-tire patch	-704.45
04/13/2016	24443	Kenneth A. Knight, Consulting	Consulting Arborist-Oak Tree program-Mar	-625.00
04/13/2016	24444	Kevin D. Walsh	Mar mtg fees	-475.87
04/13/2016	24445	Lauren W. Hanson	Mar mtg fees	-400.20
04/13/2016	24446	MCR Technologies, Inc.	10" mag meter (replacement) for NP (Ops Div)	-9,020.86
04/13/2016	24447	Nestle Pure Life Direct	5 gal disp. for Ops crew (part of PPE criteria)	-39.63
04/13/2016	24448	O'Reilly Automotive, Inc.	2 cycle engine oil (Ops Div)	-7.55
04/13/2016	24449	Paychex, Inc.	3/11, 3/25 payrolls/taxes/deliveries	-341.10
04/13/2016	24450	Peter Lapidus Construction, Inc.	C/O #3-Misalignment-precast bridge rails (Fish Div)	-3,694.46
04/13/2016	24451	Polly Holcombe	Mar mtg fees	-429.83
04/13/2016	24452	Praxair Distribution, Inc	Cylinder rental (acetylene for welder)	-64.16
04/13/2016	24453	Prudential Overall Supply	Mats/scrapers-Mar	-100.56
04/13/2016	24454	Red Wing Shoe Store	Steel toe safety boots (JS)	-175.00
04/13/2016	24455	SB Home Improvement Center	Equip/structure mtce supplies (Ops Div)	-105.08
04/13/2016	24456	Southern California Edison	Main office/outlying stations	-1,062.63
04/13/2016	24457	Tri-Co Reprographics	Copies-QC Xng 4 (Fish Div)	-47.89
04/13/2016	24458	Turenchalk Network Services, Inc.	Install temp alert/new Ops work station/phone issue-	-1,678.50
04/13/2016	24459	Underground Service Alert of So. Calif.	48 Ticket charges	-72.00
04/13/2016	24460	W. Douglas Morgan	Mar mtg fees	-416.40
04/13/2016	24461	Wright Express Fleet Services	Fleet fuel	-2,127.75
04/13/2016	24462	Association of Ca Water Agencies/JPIA	May Health Benefits coverage	-24,749.39
04/13/2016	24463	Calif Department of Fish & Wildlife	App-Restoration/Enhancement-Quiota Crk Xng 4	-4,912.25
04/13/2016	24464	Cardno, Inc.	BO Compliance & Support-thru Mar (Fish Div)	-367.71
04/13/2016	24465	Coastal Copy, LP	Copier mtce agmts	-416.78
04/13/2016	24466	Cox Communications	Business internet-Apr	-195.00
04/13/2016	24467	HDR Engineering, Inc.	EPFP Engineering services-Feb/Mar	-14,153.48
04/13/2016	24468	JDL Mapping	GIS Basemap data (Ops Div)	-437.50
04/13/2016	24469	MarBorg Industries	Portable toilets-outlying stations	-328.37
04/13/2016	24470	MGB Industrial Supply	Spray rig parts (Ops Div)	-519.00
04/13/2016	24471	Quality Windows, Inc.	Replace board room window (bathroom)	-204.91
04/13/2016	24472	Reserve Account	Postage refill	-400.00
04/13/2016	24473	SAS Institute, Inc.	Annual license-JMP software (GIS) (Fish Div)	-810.00
04/13/2016	24474	Southern California Edison	Outlying stations	-52.63
04/13/2016	24475	Verizon Wireless	Cellular/Modems/USB's	-806.98
04/20/2016	24476	ACWA	Admin Manager classified ad-web/pub	-400.00
04/20/2016	24477	American Riviera Bank (ARB)	Loan interest payment #21-Apr	-7,280.08
04/20/2016	24478	Applied EarthWorks, Inc.	Cultural Resources Survey QC Xng 0a & b-Mar	-373.68
04/20/2016	24479	Bob Murray & Associates	GM Recruitment	-1,811.25

comb2
Paid Claims
 As of April 30, 2016

<u>Date</u>	<u>Num</u>	<u>Name</u>	<u>Memo</u>	<u>Amount</u>
04/20/2016	24480	Cushman Contracting Corp.	Emerg Pumping System: Pay Req#23-Phase II	-373,950.00
04/20/2016	24481	Federal Express	Mailing-USBR (2nd Period Entitlement)	-21.26
04/20/2016	24482	GE Capital	Copier lease agmts	-489.24
04/20/2016	24483	Giffin Rental & Western Welding	Nozzle/wire for wire feed welder (Ops Div)	-66.90
04/20/2016	24484	PG&E	Tecolote Tunnel/North Portal electricity	-338.20
04/20/2016	24485	Southern California Edison	Outlying stations	-27.15
04/25/2016	24486	Business Card	Office supplies/pallet rack for weather station/ hotel/air-SRF Conf (TR)/Admin Manager ads	-2,440.67
04/25/2016	24487	Mark Crane's Tree & Arborist Services	Remove Monterey pine/Chinese Elm (Ops Div)	-2,140.00
04/25/2016	24488	Peter Lapidus Construction, Inc.	Backhoe relocation-Oak tree hole digging (Fish Div)	-660.00
04/25/2016	24489	Superior Brake & Alignment	Tune up/service-Explorer	-204.89
04/25/2016	24490	The Gas Company	Gas-main office	-22.31
04/25/2016	24491	Tri-County Locksmiths, Inc	Duplicate keys (Ops Div)	-19.33
Total 1050 - GENERAL FUND				<u>-485,169.69</u>
TOTAL				<u>-485,169.69</u>

APPROVED FOR PAYMENT

_____ Director

_____ Director

_____ Director

FINANCE COMMITTEE

comb2
Pending Claims for Payment

Type	Date	Num	Memo	Due Date	Amount
Musick, Peeler & Garrett LLP					
Bill	04/19/2016	294145	General Counsel-CalTrout-Mar	05/19/2016	55.00
Bill	04/19/2016	294144	General Counsel-Mar	05/19/2016	9,016.00
Total Musick, Peeler & Garrett LLP					9,071.00

TOTAL

TOTAL CLAIMS PENDING PAYMENT APR **\$ 9,071.00**

APPROVED FOR PAYMENT

_____ Director

_____ Director

_____ Director

FINANCE COMMITTEE

CACHUMA OPERATION & MAINTENANCE BOARD

Fisheries Committee Meeting

3301 Laurel Canyon Road
Santa Barbara, CA 93105

Friday, May 6, 2016
10:00 AM

AGENDA

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. Tributary Project Updates: Fish Passage Improvement Projects on Quiota Creek
(for information and possible recommendations)
 - a. Crossing 3
 - b. Crossing 0a
 - c. Crossing 4
 - d. Crossing 5
 - e. Crossing 8
4. Annual Monitoring Reports – Status Update *(for information)*
5. Relocation of USGS Stream Gauge in Hilton Creek *(for discussion)*
6. Summary of USBR Critical Drought Operations Information Request *(for discussion)*
7. Draft Habitat Improvement Plan (HIP) 2017 – 2021 *(for information)*
8. Adjournment

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

CACHUMA OPERATION & MAINTENANCE BOARD

Operations Committee Meeting

3301 Laurel Canyon Road
Santa Barbara, CA 93105

Tuesday, May 10, 2016
1:00 p.m.

AGENDA

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. Emergency Pumping Facilities Project (EPFP) Status (*for information and possible recommendation*)
4. Project Updates (*for information*)
 - Air Vacuum Air Release (AVAR) Valve and Blow-off Structures Rehabilitation & Replacement
 - Lauro Stop Valve Replacement
 - Development of Protocols for System Isolation
 - 2016 Watershed Sanitary Survey Update
 - North Portal Access Road
 - North Portal Jet Flow Control Valve
 - Lauro Tunnel Pipe Supports
5. Ortega Dam Update (*for information*)
6. Boundary Meter (*for discussion*)
7. Adjournment

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

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	May 23, 2016
Submitted by:	Dave Stewart
Approved by:	Janet Gingras

SUBJECT: Cushman Contracting Corporation (CCC) – Change Order No. 12

SUMMARY:

COMB staff issued Cushman Contracting Corporation (CCC) a Notice-To-Proceed (NTP) for the Barge Relocation on March 9, 2016. In an effort to avoid possible delays, Cushman decided to order the High-Density Polyethylene (HDPE) pipe and steel pipe piles once the NTP was issued. The HDPE pipe and steel pipe piles were delivered prior to COMB's receipt of the permits required for the Site 2 laydown yard. As a result, the materials had to be unloaded in the previously permitted Site 1 laydown yard. Once permitting compliance timeframes were achieved, notification for CCC to occupy Site 2 laydown yard was issued (April 18, 2016). The permit delay caused CCC additional cost in double handling of materials. In addition, Cushman placed available equipment at the job site in anticipation for work as soon as the pipe arrived. Their claim indicates they were unable to utilize the equipment during that time. Due to the permit caused delay, CCC submitted a change order request list in the amount of \$43,000 for the double handling of the materials, and \$30,210 for idle equipment charges.

COMB staff and Project Engineer, HDR, met and negotiated with CCC on the change order specifics. It was mutually agreed to reduce the double handling charge to \$24,679 (cost savings of \$18,321); and to reduce the idle equipment charges to \$10,500 (cost savings of \$19,710). The adjusted change order request totals \$35,179.

FISCAL IMPACTS:

The FY 2015-16 adopted budget contains sufficient funds to pay for the requested change order in the amount of \$35,179.

LEGAL CONCURRENCE:

N/A

COMMITTEE STATUS:

The Operations Committee sends the Cushman Contracting Corporation (CCC) change order request to the Board with the recommendation to approve in the amount of \$35,179.

RECOMMENDATION:

Board approve request for Cushman Contracting Change order in the amount of \$35,179 for permit delay and idle equipment costs.

LIST OF EXHIBITS:

- 1) Cushman Contracting Site #2 change order request list (partial)

Cushman Contracting Corporation
 Site #2 Issue List

Action

Item	Description	CCC	COMB	Responsibility
0	Delay due to lack of permits			
	A Double Handle material	CCC \$43,000 CCC analysing cost to revise Down	COMB agreed to merit will discuss cost	CCC
	B CCC Equipment parked	CCC \$30,210	Comb To discuss	



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.”

May 23, 2016

General Manager Report

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

COMB Fiscal Year 2016-17 Draft Operating Budget

The COMB Fiscal Year 2016-17 Draft Operating Budget was provided to the Member Unit General Managers and district technical staff on Monday, May 9, 2016, as indicated in the April COMB General Manager Report. Subsequently, a meeting was conducted by COMB on Thursday, May 12th for review, discussion, input and comment by the Member Agencies. Both Goleta Water District and Carpinteria Valley Water District commented that their respective District budgets had previously been presented to their Boards for discussion and approval. In conjunction with the timing issue, it was suggested that COMB reduce the budget in order to align with the Member Agencies submitted budgets. The budget presented at the Member Agency General Manager meeting was in draft form and further reductions will be incorporated to accomplish the requests prior to Administrative Committee review. A meeting of the Administrative Committee is scheduled for May 26, 2016 and a Special Board Budget Workshop meeting is anticipated to be scheduled for early June.

Cachuma Member Unit Managers Meeting

The Cachuma Member Unit Manager meeting is hosted monthly by the Santa Barbara County Water Agency and was held on Wednesday, May 11, 2016, one week later than normal due to the ACWA conference. The agenda topics included Cachuma Project remaining water estimates, Cachuma Member Unit draft planned supply and demand schedules, AECOM isolation protocol development status, the Emergency Pumping Facilities Project relocation update, accounting for system losses and unaccounted for water, and SYRWCD (Parent District) and CCRB updates.

The Water Agency provided an updated graph showing a snapshot of the estimated remaining water in the lake divided into carryover water, ANA/BNA water, minimum pool, imported water stored, and unallocated water as of April 30, 2016. COMB supplied a schedule with projections obtained from the Member Agencies which included planned versus actual conveyance related to Cachuma project carryover water and state/supplemental water deliveries/balances as of April 30, 2016.

Discussions continue regarding formulating a methodology for allocating the unaccounted for water in the system. Unaccounted for water is the difference between production and deliveries as shown on the monthly Cachuma Project Production and Use Report. Components comprising unaccounted for water include meter read timing, under-reading meters, evaporative losses from open reservoirs, treatment plant losses, natural toe drain losses, and general system losses. During times of increased storage in the lake, the unaccounted water has essentially been charged to lake storage. Per Reclamation, effective March 1, 2016, the unaccounted water is being charged to the Member Agencies to balance out production and deliveries from the system. COMB has scheduled a meeting for the Member Agencies to discuss and formulate an agreed upon methodology which COMB can then use to account for unaccounted water.

The General Managers from the Parent District and CCRB attended the May meeting and gave status updates which included information relative to the upcoming downstream releases and concern regarding the outlet works releases. The next meeting is scheduled for June 1, 2016.

Operations Division Activities

- Drought Emergency Pumping Facility Project (EPFP)

The EPFP is currently operating at site one location with an approximate operational depth of seventeen feet. Water quality is the primary concern for that location and has been acceptable to date. The system has been operating at average flows of 19 mgd for the month of May. With the continued deliveries of state and supplemental water into the lake by the South Coast Member Agencies, along with moderate deliveries, the lake elevation has remained stable.

Materials to support the additional pipeline extension have been installed by Cushman Contracting and pipeline fusing is ahead of schedule. The relocation will require a two day shutdown of the system and is currently scheduled to begin at 7AM on June 22nd and conclude by 7AM on June 24th. Dan Ellison, Project Engineer (HDR), has been coordinating with COMB, Goleta Water District, and the Cater Treatment Plant on preparation for the outage. COMB and the Project Engineer are planning to meet soon with the South Coast Districts to discuss details related to the shutdown schedule.

The electrical switchgear pad and panel has been installed by the contractor for the site 2 location. PGE will install the pole and transformer in early June. COMB staff has coordinated efforts for these activities with the County Parks Department. Once the barge facility is relocated, operating the pumps to obtain maximum efficiency will occur during the night-time hours to promote savings on energy costs.

COMB staff applied for \$300,000 in additional funding for the EPFP electrical services through the USBR Title 1 Drought Emergency Assistance funding. The current USBR-PGE services contract expires January 2017 but will most likely be exhausted by the fall 2016 due to the increased electrical costs associated with the site 2 location. The application is under review by Reclamation, Denver Policy office.

See Attachment (A) for Emergency Pumping Facility Project expenditure detail.

- Air Vacuum Air Release (AVAR) Valve & Blow-off Structures Engineer Designs

The May 2nd kick-off meeting lead by HDR took place and field investigations have begun on the air vacuum air release valve and blow-off valve sites located in the lower reach of the South Coast Conduit. A technical memorandum will be developed and presented after the field investigations are concluded.

- Development of System Isolation Protocols

AECOM is currently performing the work associated in developing the system isolation protocols as approved by the COMB Board. A kick-off meeting with COMB staff was held on May 3rd to discuss project specifics, available data, schedule and known project constraints. AECOM is reviewing data related to existing connection points to each of the Member Agencies' systems. A meeting with each of the Member Agencies to discuss existing infrastructure, access and potential constraints will be scheduled soon.

- 2016 Watershed Sanitary Survey

Summers Engineering, Inc. met with staff, Cater Treatment Plant staff and Goleta Water District technical staff on May 18th to discuss current operations. Field survey work at each of the reservoir facilities within the Upper and Mid Santa Ynez River watershed will be performed during the next few months. As work on the survey progresses, an update will be provided to the Board.

- Ortega Dam Inspection

Reclamation is scheduled to perform an examination of the left abutment under-drain on the Ortega Dam due to water seepage noted during routine dam inspections. Reclamation has conducted technical conference calls to coordinate efforts with COMB and Montecito Water District staff. COMB operations staff has been monitoring the site and reporting piezometer and toe drain readings daily to Reclamation.

Fisheries Division Activities

The Adaptive Management Committee (AMC) provides technical support for the implementation of the 2000 Biological Opinion and Fish Management Plan. The AMC is chaired by Reclamation and is comprised of representatives from National Marine Fisheries Services (NMFS), California Department of Fish and Wildlife (CDFW), United State Fish and Wildlife Service (USFW), Cachuma Conservation Release Board (CCRB), SYRWCD (Parent District), SYRWCD ID#1, and the City of Lompoc. In conjunction with the implementation of the Biological Opinion and Fish Management Plan, COMB staff was invited to participate in (for technical information only) Reclamation conducted AMC meetings during the months of April and May. The discussions have been primarily focused on environmental conditions within the river, the distribution and abundance of *O. mykiss*, flow scenarios, the committees' concerns for fish and water resources, and immediate and longer term potential actions during this critical drought period.

Hilton Creek (HC) is currently operated by Reclamation with gravity flows to the lower release point provided by Reclamation's HC Emergency Backup System which was installed last year and completed in January. Flows to Hilton Creek have been averaging 1.01cfs while the outlet works flows have averaged 2.5cfs. In early May, Reclamation received concurrence from NMFS to reduce or eliminate the outlet works flows to the stilling basin and the 154 reach as a proactive measure to extend the period that water is available to release into the Santa Ynez River and Hilton Creek. The Hilton Creek releases were anticipated to increase incrementally due to the closure of the outlet works valve but those increases were not revealed once the outlet works valve was closed. The outlet works valve continues to leak due to the valves not seating properly.

As part of action items stemming from discussions at the meeting, Reclamation requested COMB Biology staff to prepare a matrix on potential options for the Committees' consideration with regard to optimizing available habitat in the Santa Ynez River, including Hilton Creek, during and after the water rights releases this summer. Staff provided a flow-chart outlining ideas and suggestions discussed during previous meetings. COMB staff has been tasked with collecting water quality data from Santa Ynez lagoon to inform the group discussion.

Respectfully Submitted,

Janet Gingras

General Manager

EMERGENCY PUMPING FACILITY PROJECT FY 2015/2016

Attachment A

AS OF: _____ 4/30/2016

FY 15/16 APPROVED BUDGET

Emergency Pumping Facility Project ACCT #6120 2,709,250.00

Total Budget Approved **\$ 2,709,250.00** Total funds available FY 15/16

FY 15/16 EMERGENCY PUMPING FACILITY PROJECT				
CONSULTANTS	BUDGET	EXPENDED	BALANCE	Description
Cushman Contracting	2,219,250.00	1,526,316.76	692,933.24	Construction - Phase II/Operations
HDR Engineering	100,000.00	67,885.16	32,114.84	Contract Management tasks
PGE (Site 2)	150,000.00	107,880.35	42,119.65	PGE reconducting costs (6 mo's) (Eng)
PGE	240,000.00	-	240,000.00	PGE electrical costs (6 mo's)
Musick, Peeler & Garrett	-	12,788.00	(12,788.00)	Legal costs
American Riviera Bank	-	67,819.15	(67,819.15)	Loan fees/Interest (CVWD/GWD/MWD)
Misc	-	813.75	(813.75)	Materials, supplies, Permits, etc.
Totals	\$ 2,709,250.00	\$ 1,783,503.17	\$ 925,746.83	

FY 14/15 EMERGENCY PUMPING FACILITY PROJECT				
CONSULTANTS	BUDGET	EXPENDED*	BALANCE	Description
Cushman Contracting	3,818,000.00	3,842,509.46	(24,509.46)	Construction - Phase II/Operations
HDR Engineering	150,000.00	71,618.52	78,381.48	Contract Management tasks
Musick, Peeler & Garrett	-	22,609.00	(22,609.00)	Legal costs
PGE Construction	125,000.00	111,907.00	13,093.00	
PGE Monthly Costs	32,565.00	9,631.02	22,933.98	Electricity charges
PGE Monthly Costs	-	2,500.00	(2,500.00)	Deposit-pump station location #2 eng.
RMC Water & Environment	-	999.81	(999.81)	Prop 84, Grant Application support
Rodney Hunt-Fontaine	-	540.00	(540.00)	Stems/guides-cast/engineering
SY Band of Chumash	-	1,914.30	(1,914.30)	Field monitoring
Bank of Santa Barbara	-	60,120.92	(60,120.92)	Loan fees/Interest (CVWD/GWD/MWD)
Misc	-	1,214.97	(1,214.97)	Materials, supplies, Permits, etc.
Totals	\$ 4,125,565.00	\$ 4,125,565.00	\$ 0.00	

*Participating Member Units were assessed Actual Expenditures only.

FY 13/14 DROUGHT CONTINGENCY-EMERGENCY PUMPING FACILITY PROJECT				
CONSULTANTS	BUDGET	EXPENDED	BALANCE	Description
Environ Strategy	60,000.00	9,191.50	50,808.50	Project Management Services
HDR Engineering	198,748.00	178,645.48	20,102.52	Develop proj def; assist w/RFQ-RFP, etc
MPG - Environmental/Legal	50,000.00	80,622.32	(30,622.32)	Environmental / Legal fees
Permits	8,045.25	8,045.25	-	CDFW-\$4,912.25 / RWQCB-\$3,133
PG&E	7,000.00	7,000.00	-	On-going project electrical charges
Smith, Watts & Martinez	20,000.00	20,000.00	-	Lobbyist-drought relief funding
SYRWCD ID#1 (Stetson)	5,000.00	4,025.17	974.83	Work authorized by RW/TR
Miscellaneous	33,206.75	119.72	33,087.03	Non-Contract Incidental charges
Cushman Contracting	350,000.00	350,000.00	-	Phase I designs/mobilization/site prep
HDR Engineering	50,000.00	-	50,000.00	Project Management fees
Contractor	54,000.00	-	54,000.00	Evaluation of NP gates, stems, guides
Rodney Hunt-Fontaine	150,000.00	152,272.44	(2,272.44)	Stems for gates 1-5
PG&E	-	107,370.37	(107,370.37)	Electrical Installation contract
Totals	\$ 986,000.00	\$ 917,292.25	\$ 68,707.75	

CACHUMA OPERATION AND MAINTENANCE BOARD

MEMORANDUM

DATE: May 23, 2016
TO: Janet Gingras, General Manager
FROM: Dave Stewart, Operations Division Manager
RE: MONTHLY OPERATIONS DIVISION REPORT

Operations

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 continually endeavors to improve the system, address deficiencies and identify items to be included in the Infrastructure Improvement Program (IIP).

Lake Cachuma Operations

The total flow from Lake Cachuma into the Tecolote Tunnel for April was 1208.4 acre-feet, for an average daily flow of 40.28 acre-feet. Lake elevation was 665.20 feet at the beginning of the month and 664.78 feet at the end. Storage change decreased 378 acre-feet. CCWA wheeled 1283.2 acre-feet of water to Cachuma Project facilities.

Operation and Maintenance Activities

COMB Staff regularly performs the following duties:

- Weekly Safety meetings
- Weekly Rodent Bait (all reservoirs)
- Weekly Toe Drain and Piezometer reads at Ortega (L23)
- Dam inspection and reports (all reservoirs)
- Structure maintenance per Work Plan
- USA Dig Alert – Responded as necessary to alerts
- Pesticide report to County of Santa Barbara
- Operational tests of generators at the North Portal and at Lauro Yard
- Inspection of fire extinguishers
- Read anodes and rectifier data
- Water samples taken at Lake Cachuma
- Meter calibration and flushing performed on all Venturi meters
- Clean up, Inspection, and tool Inventory of all vehicles
- Clean up and organize service yard and all buildings

Weekly Safety Meetings:

The primary purpose of the weekly safety meetings is to continue educating staff on safe practices in the field and on-site. In the safety meetings, staff is urged to ask questions regarding the topic being discussed and to think of related examples. The discussion also includes how the incident could have been prevented. Regular safety meetings help staff to constantly be aware of safety practices while on the job. The following topics were reviewed this past month:

- ✓ “Code of Safe Practices” review
- ✓ Electric Tools, Grounds for Concern
- ✓ Traffic Control Safety
- ✓ Use Your Head, Wear Your Hard Hat!

COMB Operations Staff specifically performed the following activities:

- COMB hired All Cal Equipment Services to conduct the annual intake tower hoist inspection. The hoist was cleared for use and the certification was obtained.
- All Air Vent and Blow Off structures along the southern section of the South Coast Conduit (SCC) were pumped out and cleaned in preparation for HDR Engineering Inc.’s (HDR’s) inspections. Stations include: 1+10 BO, 2+74 AV, 8+80 BO, 16+21 AV, 27+80 BO, 67+86 AV, 74+02 BO, 83+90 BO, 197+85 BO, 199+63 AV, 223+40 BO, 225+98 AV, 227+20 BO, 230+51 AV, 233+05 BO, 244+30 AV, 245+70 BO, 254+66 AV, 257+36 BO, 318+50 BO, 352+07 AV, 388+10 BO, 411+41 AV, 427+25 BO, 442+50 AV, 475+20 BO, 495+30 AV, 504+65 BO, 510+20 AV, 552+45 BO, 574+33 AV, 592+80 BO, 598+20 AV, 598+48 AV, 643+92 AV, 676+67 AV, 679+80 BO, 682+11 AV, 698+55 BO, 703+00 AV, 732+72 BO, 756+84 BO, 804+24 BO, 874+00 AV, 880+05 BO, 900+15 AV, and 902+96 BO.
- HDR sent a corrosion technician out to inspect all the Air Vent and Blow Off structures along the southern section of the SCC. This helped determine the current condition of the assets within the structures and form a clearer depiction of inventory to acquire before their rehabilitation can be completed. Staff assisted by monitoring the inspection and associated confined space entry, as well as supplying traffic control for inspection of the structures located in the roadway of Hwy 192.
- Annual weed abatement was completed at Ortega Control Station and Reservoir, as well as Carpinteria Control Station and Reservoir. The abatement consists of knocking down vegetation and applying herbicide to the remainder, thus reducing both the number of visits to the site and the amount of physical labor required of COMB personnel.
- Staff discovered a small amount of water weeping out of the asphalt drainage canal at Ortega Reservoir Dam abutment this month. It is Reclamation’s current consensus that the underdrain system of the reservoir is leaking somewhere along the drainpipe connecting to the toe drain monitoring outfall. Since the discovery of the seepage, COMB and Reclamation have worked very closely to monitor the seepage and propose a solution. Details to follow in next month’s Operations Division Report.

- Staff attended a training seminar hosted by Cal Fire to inform sponsors, such as COMB, why the Cal Fire program exists and how to properly work alongside the fire crews while they are on-site.
- The Operations Division continually inspects all sites, reservoirs, and the South Coast Conduit for items to add to the IIP as future projects.

Additionally, Operations staff has been involved in activities related to the EPFP, IIP, and investigation of the Lower Reach AVAR conditions.

Current Operations Projects include:

- Air Vacuum Air Release (AVAR) Valve and Blow-off Structure Rehabilitation & Replacement
- Lauro Stop Valve Replacement
- Development of Protocols for System Isolation
- 2016 Watershed Sanitary Survey Update
- North Portal Access Road
- North Portal Jet Flow Control Valve
- Lauro Tunnel Pipe Supports

CACHUMA OPERATION AND MAINTENANCE BOARD

BOARD MEMORANDUM

DATE: May 23, 2016
TO: Janet Gingras, General Manager
FROM: Tim Robinson, Fisheries Division Manager
RE: MONTHLY FISHERIES DIVISION REPORT

HIGHLIGHTS:

- The draft 2013 Annual Monitoring Summary has been submitted to the Member Unit Managers and USBR for review.
- The Hilton Creek Emergency Backup System (HCEBS) currently is delivering water to Hilton Creek by gravity flow at a flow rate of approximately 1.0 cfs according to the USBR Daily Operations Reports.

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 Cachuma Project Biology Staff (CPBS) 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 CPBS since the last COMB Board Fisheries Division Report that has been broken out by categories.

LSYR Steelhead Monitoring Elements:

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, normally from April through December 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.

Redd Surveys: Redd surveys are conducted approximately every two weeks from mid-January through May. Surveys were initiated in January within the LSYR mainstem in the Highway 154, Refugio, and Alisal reaches where access was permitted, and certain sections of Hilton, Quiota, and Salsipuedes/El Jaro creeks. The number of redds is reported in the Annual Monitoring Plan. The redd surveys to date have observed only one redd in Salsipuedes Creek, two redds in Hilton Creek and one redd in Quiota Creek with no redds found in the LSYR mainstem within the Highway 154, Refugio or Alisal reaches.

Cachuma Lake Oak Tree Restoration Program: COMB staff, with guidance from the hired professional arborist, continues to implement the Program and has successfully conducted all management actions as required. An update of the project is provided in a separate Board memo.

Tributary Project Updates:

Quiota Creek Crossing 0: COMB received a 2014 CDFW-FRGP Grant for \$671,635 with a landowner construction match of \$50,000. The project and funding was discussed at the 3/1/16 Fisheries Committee and the COMB Board accepted the grant on 3/23/15. Staff and HDR have met several times with the two landowners associated with the project. The downstream landowner at Crossing 0A is in full agreement with the project and designs whereas the upstream landowner at Crossing 0B has declined the project. All resources have now been shifted to Crossing 0A which we plan to construct this fall 2016 pending design approval and acquiring permits. Designs have been submitted to the County and CDFW-NMFS for comment. All permits have been submitted.

Quiota Creek Crossing 4: COMB was awarded a 2015 CDFW-FRGP Grant on 3/30/15 for \$938,295 with a COMB construction match of \$50,000. The project and funding was discussed at the 3/1/16 Fisheries Committee and accepted by the COMB Board on 3/28/16. The project is moving forward as quickly as possible with the intent to go to construction in the fall of this year.

Quiota Creek Crossing 5: As discussed and recommended by the COMB Board on 3/7/16, staff submitted a 2016 CDFW-FRGP Grant on 3/11/16 for \$893,287 with a COMB construction match of \$50,000. If funded, the project would most likely be built in the fall of 2017 pending design approval and permit acquisition.

Quiota Creek Crossing 8: This project and the required Cooperative Agreement with the County was discussed at the 5/4/16 Fisheries Committee meeting with a recommendation to the Board to move forward with the project. A separate Board memo addresses this recommendation.

Salsipuedes Creek – Jalama Road Fish Ladder: There has been no action on the suggested repairs to this project.

El Jaro Creek – Cross Creek Ranch Fish Passage Facility: There has been no action on the suggested repairs to this project.

Hilton Creek Watering System (HCWS) Repairs and Upgrades plus the Hilton Creek Emergency Backup System (HCEBS)

The HCWS and HCEBS are owned, operated and maintained by USBR. The HCEBS was completed at the end of January. An additional contract modification (Mod-005) is in process to have the contractor install security fencing and lighting for the HCEBS. With this system fully operational, USBR can now work on identified repairs to the HCWS which will be scheduled soon.

Surcharge Water Accounting

The following table summarizes the amount of Surcharge water used to date from each of the three accounts at the end of last month (Table 1). All numbers come from USBR's Daily Operations Report. The start time for the use of the Surcharge Water Accounts was 5/27/11, or the last day of full surcharge. As of May 2012, all of the Fish Rearing Account waters have been used and USBR is now using Project Yield to meet BiOp target flows. A WR 89-18 release began on 7/15/13 and ended on 12/2/13, another began on 8/18/14 and ended on 11/11/14, and the 2015 WR 89-18 release started on 8/3/15 and ended on 9/26/15. 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. What remains of the AMA is 351 acre-feet. There have been no releases from the Fish Passage Supplementation Account (FPSA). Determination of critical drought and the associated accounting and possible usage of the AMA and FPSA have not been finalized and approved by NMFS hence is not reflected in Table 1.

Table 1: Summary of the surcharge water accounting and use of Project Yield.

Accounts*	Allocation	Amount Used**	Amount Remaining
Units:	(acre-feet)	(acre-feet)	(acre-feet)
Fish Passage Supplementation	3,200	0	3,200
Adaptive Management	500	149	351
Fish Rearing***	5,484	5,484	0
Project Yield		14,700	
Total:	9,184	20,333	3,551
* Originally was 9,200 af, 8,942 af in 2008 and 9,184 af in 2013.			
** Values as of 4/30/16.			
*** 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: The draft 2013 AMR has been sent to the Member Unit Managers and USBR for review. Staff continues to work on the draft 2014 AMR that should be sent to the Science Review Team soon. Staff has been providing information to USBR as requested in support of the recent Adaptive Management Committee meetings.

Outreach and Training: Staff continues to work 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. The Fisheries Division Manager gave a guest lecture at Antioch College on 4/26/16 for their Conservation Biology class.

Consultant Activity Summary:

HDR Fisheries Design Center (Mike Garelo) – Design and reporting work for the Quiota Creek Crossings 0, 4, 5 and 8 projects.

Stetson Engineers (Ali Shahroody) – Santa Ynez River hydrological analyses.

Cardno (Jean Baldrige) – BiOp compliance tasks and support.

Hanson Environmental (Chuck Hanson) – BiOp compliance tasks and support.

COM3 Consulting (Gerald Comati) – Quiota Creek Crossing 8 CalTrans grant application.

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	May 23, 2016
Submitted by:	Tim Robinson
Approved by:	Janet Gingras

SUBJECT: Resolution No. 612 - Quiota Creek Crossing No. 0a Fish Passage Improvement Project

SUMMARY:

COMB was awarded a 2014 CDFW-FRGP Grant for \$671,635 with a landowner construction match of \$50,000 to replace the concrete low flow crossing at Quiota Creek Crossing 0a with a bridge. After multiple meetings with the landowner and our design engineers at HDR, the preferred design consists of a 55-foot bottomless arched culvert with no wing walls and only rock slope protection for bridge foundation scour protection. The stream channel will be slightly widened and stream profile set to allow for no rise in flood height during the 100-year event in the floodway of Quiota Creek and the adjacent Santa Ynez River. The COMB Board accepted the CDFW-FRGP grant through Resolution No. 594 on March 23, 2015. The total project cost is estimated to be \$840,000 and is schedule to be constructed in the fall of 2016 pending Board approval, final design approval and permit acquisition.

FINANCIAL IMPACT:

Estimated COMB services (staff salaries) at \$68,139, operating expenses (permit fees, engineering oversight, record drawings) at \$34,130, and final engineering designs at \$30,000 for a total of \$132,269. CDFW-FRPG grant funding totals \$671,635 with a landowner construction match of \$50,000. Total cost of project is estimated to be \$840,000 and is budgeted for construction in Fiscal Year 2016-17.

LEGAL CONCURRENCE:

COMB legal counsel has reviewed and approved the CDFW-FRGP grant agreement.

ENVIRONMENTAL COMPLIANCE:

All permits will be acquired as needed and followed throughout the project.

COMMITTEE STATUS:

The Fisheries Committee reviewed Quiota Creek Crossing No. 0a Project and forwards to the Board with a recommendation to adopt Resolution No. 612.

RECOMMENDATION:

Board adopt Resolution No. 612 for implementation of the Quiota Creek Crossing No. 0a Project.

LIST OF EXHIBITS:

- 1) Resolution No. 612

RESOLUTION NO. 612

**RESOLUTION OF THE GOVERNING BOARD OF THE
CACHUMA OPERATION & MAINTENANCE BOARD APPROVING EXPENDITURES
FOR THE CONSTRUCTION OF THE FISH PASSAGE IMPROVEMENT AT QUIOTA
CREEK CROSSING NUMBER 0a**

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 (collectively the “Joint Powers Agreement”); and

WHEREAS, COMB operates and maintains Cachuma Project facilities pursuant to a Transfer of Operation and Maintenance Contract with the United States Bureau of Reclamation; and

WHEREAS, the Member Agencies of COMB consist of the City of Santa Barbara, the Goleta Water District, the Montecito Water District, the Carpinteria Valley Water District (collectively herein the “South Coast Member Agencies”), and the Santa Ynez River Water Conservation District, Improvement District No. 1 (“ID No. 1”); and

WHEREAS, in August, 1997, the National Marine Fisheries Service (“NMFS”) listed anadromous steelhead in the Southern California Evolutionarily Significant Unit, including the Santa Ynez River downstream of Bradley Dam, as an endangered species under the federal Endangered Species Act, and completed and issued on September 11, 2000, a Biological Opinion relative to Cachuma Project operations as they relate to steelhead; and

WHEREAS, COMB is committed to implement and cooperate in operations and other management actions designed to protect and enhance habitat conditions for steelhead in the Santa Ynez River and its tributaries downstream of Bradbury Dam; and

WHEREAS, the fish passage improvements at Crossing Number 0a on Quiota Creek, a tributary to the Lower Santa Ynez River, will provide improved access to the perennial reaches of Quiota Creek and restore habitat to enhance conditions for steelhead (the “Project”). The Project is located on Old Santa Rosa Road, now within a privately-owned parcel that is zoned agricultural (AG-II-100) and thus, has a long history of being grazed and maintained as pastureland, with a narrow stream channel traversing the parcel; and

WHEREAS, COMB has prepared a detailed Scope of Work with specific tasks to be performed, a schedule of completion and a detailed budget that will be used for selection of a construction contractor and construction management of the Project; and

WHEREAS, final approvals of the Project's 100% design drawings (produced by HDR Fisheries Design Center) by the California Department of Fish and Wildlife ("CDFW"), NMFS fish passage engineers and Santa Barbara County is expected in the early Summer 2016. The bulk of the on-the-ground construction activities for the Project will be accomplished by a hired contractor who will be determined through a competitive bidding process using a pre-approved CDFW-qualified contractor list. Pending obtaining all necessary permits, the Project will be constructed in the late Summer/Fall (September – December) 2016, and is expected to take approximately 75 days to complete; and

WHEREAS, COMB estimates that the total expenditures for the Project would be approximately Eight Hundred Forty Thousand Dollars (\$840,000), which would include a significant amount of state grant funding, along with Warren Act funding, assessments to Member Agencies and a landowner construction match of \$50,000; and

WHEREAS, in 2014, COMB was awarded Six Hundred Seventy-One Thousand Six Hundred Thirty-Five Dollars (\$671,635) in CDFW-Fisheries Restoration Grant Program ("FRGP") funding (the "Grant"); and

WHEREAS, on March 1, 2015, the Project was reviewed and considered by COMB's Fisheries Committee; and

WHEREAS, on March 23, 2015, the COMB Governing Board approved Resolution 594 accepting the Grant to fund a significant portion of the total expenditures necessary for the Project; and

WHEREAS, the Governing Board desires to authorize and approve the total expenditures for the Project.

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 supports the Fish Passage Improvements on Quiota Creek, including the Project at Crossing 0a, which are considered essential to the steelhead restoration effort in the Lower Santa Ynez River.
3. The Governing Board approves and authorizes the requested expenditure for the Project.
4. The Governing Board further authorizes COMB's officers and staff, including the General Manager, to continue to do all things necessary and appropriate, including, but not limited to, execution and delivery of necessary documents, the obtaining of applicable permits, and any other actions to construct and implement the Project using the approved expenditures.
5. This Resolution shall take effect immediately.

PASSED, APPROVED AND ADOPTED by the Governing Board of the Cachuma Operation and Maintenance Board, this 23rd day of May 2016, by the following roll call vote:

Ayes:

Nays:

Abstain:

APPROVED:

President of the Governing Board

ATTEST:

Secretary of the Governing Board

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	May 23, 2016
Submitted by:	Tim Robinson
Approved by:	Janet Gingras

SUBJECT: Fish Passage Improvement Project – Quiota Creek Crossing No. 8
Construction Cooperative Agreement

SUMMARY:

Project Description: This project will address the potential fish passage issue at the sub-standard temporary County bridge over Quiota Creek at Crossing No. 8 of South Refugio Road (Figure 1). In its current state, the road approaches and bridge are traffic hazards but are not a fish passage impediment for juvenile and adult steelhead/rainbow trout (*O. mykiss*) but easily could be if the temporary bridge and foundations failed. This project has been low on COMB's prioritization list for impediment fixes for *O. mykiss* along the creek with downstream barriers having a higher priority. In the case of the County, this is also a low priority project because of the rural setting and low traffic volume. We have been working steadily with the County for a few years in collaboration to tackle this project.

To that regard, COMB hired a consultant to assist with a CalTrans Bridge Replacement Federal Grant for the Quiota Creek Crossing No. 8 Project. This grant process requires a Cooperative Agreement between the lead agency, the County, and their appointed construction oversight agent, COMB. Currently, the County does not have the staff and budget to conduct the required oversight and has solicited COMB's assistance. COMB's role in the project would be to oversee the construction and biological monitoring as well as collaboration with the County during and post construction reporting, a role that COMB is very familiar with given the number of projects successfully completed along South Refugio Road and Quiota Creek crossings.

Our consultant and staff have been working on the Cooperative Agreement, grant application and designs. Attached is the required draft Construction Cooperative Agreement for Board review, consideration and approval. If Board approval is obtained, the grant application from the County would be submitted to CalTrans. The designs are at approximately 75% complete and evolving as we receive CalTrans input. The project will be larger than other projects downstream due to the required CalTrans federal design criteria. Staff is making progress and hopes to submit the grant application at the beginning of the summer, pending Board approval of the Cooperative Agreement. If all goes smoothly and the County is awarded the grant, the project should go to construction in the fall of 2017 or 2018.

Estimated Project Costs: The estimated cost of the project is \$1.6 million. The Quiota Creek Crossing No. 8 Project is relatively small in foot print and cost compared to other proposed projects seeking funding through the CalTrans Bridge Replacement Federal Grant Program. Hence, the construction costs of the project are fully refundable through the grant with no match required. The projected cost to COMB estimated by the County and advising consultant would be approximately \$30,000 of staff time and \$50,000 of reimbursable expenses for the project.

FINANCIAL IMPACT:

\$30,000 staff time and \$50,000 of reimbursable expenses as estimated by the County and advising consultant.

LEGAL CONCURRENCE:

COMB legal counsel has reviewed the Cooperative Agreement after consultation with County counsel.

ENVIRONMENTAL COMPLIANCE:

All permits will be acquired as needed and followed throughout the project.

RECOMMENDATION:

- 1) Authorize the Board President to enter into the Construction Cooperative Agreement with the County of Santa Barbara to complete fish passage improvement project at Quiota Creek Crossing No. 8.
- 2) Authorize COMB staff to assist the County of Santa Barbara in submitting the CalTrans Bridge Replacement Federal Grant application for the Quiota Creek Crossing No. 8 Project.

LIST OF EXHIBITS:

Exhibit 1: Construction Cooperative Agreement between Santa Barbara County and COMB



Figure 1: Temporary County bridge on South Refugio Road at Quiota Creek Crossing No. 8 looking upstream.

CONSTRUCTION COOPERATIVE AGREEMENT

This Agreement is entered into between the County of Santa Barbara (“COUNTY”), a political subdivision of the State of California, and the Cachuma Operations and Maintenance Board (“COMB”), a Joint Powers Authority, collectively referred to herein as “PARTIES”.

RECITALS

1. WHEREAS, the PARTIES are authorized to enter into this cooperative agreement to complete improvements to Refugio Road where it crosses Quiota Creek at Crossing 8, approximately 4 miles south of the City of Santa Ynez and State Highway 246 in unincorporated Santa Barbara County.
2. WHEREAS, Refugio Road is a COUNTY road for which the COUNTY maintains the roadway, guardrails, road shoulders, culverts, and bridges including bridge rails and signage.
3. WHEREAS, Refugio Road at Crossing 8 is an aging, substandard, temporary bridge (State Bridge No. 51C0377) that is owned and maintained by the COUNTY.
4. WHEREAS, the Highway Bridge Program (“HBP”) is a federally-funded program administered through the Federal Highway Administration (“FHWA”) and California Department of Transportation (“CALTRANS”) that enables local agencies to maintain their highway bridges through replacement, rehabilitation and preventive maintenance.
5. WHEREAS, a recent inspection by CALTRANS rated Quiota Creek Crossing 8 as *Structurally Deficient* and therefore, eligible for replacement funding through the HBP.
6. WHEREAS, the COUNTY has previously entered into a Master Agreement with CALTRANS which defines the general terms and conditions that must be met for the COUNTY to receive federal-aid funds for Federal-Aid Highway Programs, such as the HBP.
7. WHEREAS, COMB, in cooperation with the United States Bureau of Reclamation, operates and maintains portions of the Lake Cachuma Water Project, including its water delivery system to the communities of southern Santa Barbara County and conducts all required compliance measures for that water supply project. This also includes providing fish passage for the endangered southern California steelhead within tributary creeks downstream of Lake Cachuma (Bradbury Dam) in the Santa Ynez River watershed, such as Quiota Creek, which has been designated as Critical Habitat by the National Marine Fisheries Service (“NMFS”).

8. WHEREAS, COMB is required to improve fish passage at Crossing 8 as a condition of COMB's permit to operate and maintain the Lake Cachuma Water Project and its water delivery system.
9. WHEREAS, COMB is willing to deliver, at no cost to the COUNTY and in accordance with the PARTIES' Agreement for Services of Independent Contractor, the Quiota Creek Crossing 8 Bridge Replacement Project, which is described and identified in Exhibit "A" (PROJECT Scope and Schedule) and hereinafter referred to as the "PROJECT."
10. WHEREAS, at no cost to COMB, the COUNTY is willing to procure HBP funds in order to complete the PROJECT and provide COMB with guidance on how to satisfy federal and state requirements associated with using HBP funds in completing the PROJECT.

NOW THEREFORE, the PARTIES hereby agree as follows:

I. COMB OBLIGATIONS AND DUTIES

COMB AGREES:

1. To enter into an Agreement for Services of Independent Contractor with the COUNTY that will define the responsibilities and requirements for the delivery of Preliminary Engineering, Right-of-Way and Construction Administration services related to the PROJECT.
2. At no cost to the COUNTY:
 - a) As an independent contractor, to provide Preliminary Engineering, Right-of-Way, and Construction Administration Services, including all contracting out services, for the PROJECT in accordance with the Agreement for Services of Independent Contractor and applicable federal and state regulations, laws, guidelines and standards;
 - b) To acquire, in the name of the COUNTY, any permits necessary to complete the PROJECT; and
 - c) To identify and to provide a legal depiction (drawing showing the right-of-way line work and acquisition areas) of any Right of Way necessary to complete the PROJECT and to acquire in the name of the COUNTY, any right-of-way necessary to complete the PROJECT.
3. For the purposes of reimbursement from CALTRANS, to provide invoices and necessary financial and cost documentation to the COUNTY for Preliminary Engineering, Right-of-Way, and Construction Administration phases of the PROJECT.

4. As consideration for the benefits that COMB will receive from the Agreement, to reimburse the COUNTY for any costs incurred by the COUNTY that are not reimbursable through HBP.

II. COUNTY OBLIGATIONS AND DUTIES

COUNTY AGREES:

1. To serve as the Responsible Agency for the PROJECT for purposes of the California Environmental Quality Act (“CEQA”) and National Environmental Policy Act (“NEPA”), and to receive HBP funding for delivery of the PROJECT through the Preliminary Engineering, Right-of-Way and Construction phases as defined by the HBP. As Responsible Agency, COUNTY acknowledges that it is ultimately responsible for delivery of the PROJECT to the satisfaction of CALTRANS and the Federal Highway Administration (“FHWA”).
2. Subject to approval by the COUNTY Board of Supervisors, to enter into an Agreement for Services of Independent Contractor with COMB to define the responsibilities and requirements for the delivery of Preliminary Engineering, Right-of-Way and Construction Administration services for the PROJECT.
3. At no cost to COMB:
 - a) To review all products prepared by COMB toward delivery of the PROJECT prior to submittal to CALTRANS;
 - b) To provide legal access to the COUNTY right-of-way for Preliminary Engineering, Right-of-Way and Construction phases;
 - c) To provide oversight of COMB Construction Administration, during the Construction phase of the PROJECT;
 - d) To participate in PROJECT meetings, when appropriate;
 - e) To prepare and submit to CALTRANS, reimbursement claims for any work eligible for HBP funds;
 - f) To provide guidance on how to satisfy federal and state requirements associated with using HBP funds to complete the PROJECT;
 - g) To bid the PROJECT for construction and to award a construction contract and serve as administering agency for construction; and

- h) To request the COUNTY Board of Supervisors to execute any Purchase Contracts or approve any Deeds necessary to acquire Right-of-Way.
4. To invoice COMB for any costs incurred by the COUNTY that are not reimbursable through HBP.

III. GENERAL CONDITIONS

1. This Agreement shall neither change ownership of nor any responsibilities that the PARTIES currently have for either the existing bridge (State Bridge No. 51C0377) or associated facilities outside the scope of the PROJECT. The COUNTY shall continue to own the bridge and any associated facilities constructed by the PROJECT, and the PARTIES' respective responsibilities for the bridge and any associated facilities constructed by the PROJECT shall be identical to the PARTIES' respective responsibilities for the existing bridge and its associated facilities.
2. COMB will retain records pertaining to the PROJECT for a period of three (3) years after final voucher (acceptance) for the completed PROJECT. The COUNTY, the State of California, the federal government and any of their designees shall have the right to audit, review, inspect, examine, monitor, copy, excerpt and transcribe all such documents and records at any time during COMB's regular business hours or upon reasonable notice.
3. Any notice that may be required under this Agreement shall be in writing to the PARTIES at addresses set forth below. Notice is effective five days after deposit, with postage fully prepaid, into the United States mail, or otherwise upon confirmation of receipt:

County of Santa Barbara
Public Works Director
123 East Anapamu Street
Santa Barbara, CA 93101

Cachuma Operation and Maintenance Board
Quiota Creek Crossing 8 Project Manager
3301 Laurel Canyon Road
Santa Barbara, CA 92105

IV. INSURANCE AND INDEMNIFICATIONS

1. It is mutually understood and agreed to by the PARTIES, relative to the reciprocal indemnification of the COUNTY and COMB:

Indemnity: The PARTIES acknowledge their respective roles respecting the PROJECT under this Agreement. COMB's role is to provide documentation, contract for the work of the PROJECT, provide construction administration, and manage construction. The COUNTY's role is to provide oversight during construction and to approve all design deliverables prepared by COMB for the PROJECT. Within the limitation of these roles, the PARTIES desire to provide mutual indemnity to each other.

The PARTIES shall fully defend, indemnify and hold harmless each other, and the officers and employees of each other, against any damage, liability or claim occurring by reason of anything done or omitted to be done by any PARTY acting within the scope of this Agreement.

V. TERM AND OBLIGATION OF AGREEMENT

1. This Agreement shall remain in effect until discharged or terminated as follows:
 - a) The Agreement may be terminated at any time by mutual consent of the PARTIES and any such termination shall be documented with a dated written notice of such termination.
 - b) This Agreement shall be discharged, and the PARTIES shall have no further obligation to each other, either upon completion of the PROJECT or upon the failure of the COUNTY Board of Supervisors to award a contract to construct the PROJECT.
 - c) All obligations of COMB under the terms of this Agreement are subject to allocation of HBP funds to the COUNTY. COMB may terminate this Agreement by written notice to the COUNTY upon COMB determination that the necessary funds have not been allocated.
2. This Agreement represents the entire agreement of the PARTIES with respect to the subject matter hereof. No representations, warranties, inducements or oral agreements have been made by any of the PARTIES except as expressly set forth herein, or in other contemporaneous written agreements.
3. This Agreement may not be changed, modified or rescinded except in writing, signed by all PARTIES hereto, and any attempt at oral modification of this Agreement shall be void and of no effect.
4. The PARTIES render their services under this Agreement as independent agencies. None of the employees or agents of any PARTY shall be employees or agents of any other PARTY to this Agreement.
5. The Agreement may not be assigned, transferred, hypothecated, or pledged by any PARTY without the express written consent of the other parties.
6. Should any part of the Agreement be determined to be unenforceable, invalid, or beyond the authority of any PARTY to enter into or carry out, such determination shall not affect the validity of the remainder of this Agreement which shall continue in full force and

effect; provided that, the remainder of this Agreement can, absent the excised portion, be reasonably interpreted to give effect to the intentions of the PARTIES.

7. This Agreement may be executed in one or more counterparts and shall become effective when one or more counterparts have been signed by all of the PARTIES; each counterpart shall be deemed an original but all counterparts shall constitute a single document.
8. No remedy or election of remedies provided for in this Agreement shall be deemed exclusive, but shall be cumulative with all other remedies at law or in equity. Each remedy shall be construed to give the fullest effect allowed by law.
9. This Agreement shall be governed by, and construed and enforced in accordance with the laws of the State of California.
10. The waiver by any of the PARTIES of any breach of any of the provisions of this Agreement shall not constitute a continuing waiver or a waiver of any subsequent breach of the same, or of any other provision of this Agreement.
11. Nothing in this Agreement, expressed or implied, is intended to confer any rights or remedies under or by reason of this Agreement on any third party, nor in anything in this Agreement intended to relieve or discharge the obligation or liability of any third party to any party to the Agreement, nor shall any provision of this Agreement give any third party any right of subrogation or action over or against any party to this Agreement.
12. Each of the PARTIES warrants to each other that he or she is fully authorized and competent to enter into this Agreement in the capacity indicated by his or her signature and agrees to be bound by this Agreement upon the execution of this Agreement by each of the PARTIES.

IN WITNESS WHEREOF, the parties have executed this Agreement to be effective on the date when fully executed by both parties.

PASSED, APPROVED, AND ADOPTED by the Board of Supervisors of the County Santa Barbara, State of California, on this _____ day of _____, 2016 by the following vote:

AYES:
NAYS:
ABSENT:
ABSTAIN:

ATTEST:
MONA MIYASATO
COUNTY EXECUTIVE OFFICER
CLERK OF BOARD

COUNTY OF SANTA BARBARA

By: _____
Deputy Clerk

By: _____
Peter Adam, Chair
Board of Supervisors

APPROVED AS TO FORM:
MICHAEL C. GHIZZONI
COUNTY COUNSEL

APPROVED AS TO FORM:
RAY AROMATORIO
RISK PROGRAM ADMINISTRATOR

By: _____
Deputy County Counsel

By: _____

APPROVED AS TO ACCOUNTING FORM:
THEODORE A. FALLATI, C.P.A.,
AUDITOR CONTROLLER

By: _____
Deputy

Cachuma Operation and Maintenance Board
3301 Laurel Canyon Road
Santa Barbara, CA 92105

By: _____
President of the Governing Board

Date: _____

APPROVED AS TO FORM:

By: _____
Legal Counsel, COMB

EXHIBIT A

PROJECT SCOPE & SCHEDULE

SCOPE:

Project is to replace existing structurally deficient timber and steel bridge along Refugio Road at Crossing 8 of Quiota Creek in Santa Barbara County. The new bridge will allow fish-passage and increased flow capacity.

SCHEDULE:

Activity	Projected Completion Date
1 Secure Authorization to Proceed from Caltrans	July 2016
2 Approval of Professional Services Agreement Between County and COMB	September 2016
3 COMB Complete Consultant Selection	November 2016
4 Complete Environmental	April 2017
5 Secure Right of Way and Secure Permitting	September 2017
6 Complete Design	July 2017
7 Advertise for Construction	December 2017
8 Award for Construct	March 2018
9 Complete Construction	July 2018

EXHIBIT B

PROJECT COST ESTIMATE AND FUNDING PLAN

Quiota Creek Crossing 8 Project - COST AND FUNDING PLAN								05/05/16	
Category	Phase	Responsibility	Non-Federal COMB Cost	HBR Fed Program				Total COMB Costs	Total Project Costs
				COMB Share - Federal	COUNTY Share - Federal	Federal Share	Total		
PE	Env	COMB	0	0	0	70,000	70,000	0	70,000
PE	Design	COMB	0	0	0	70,000	70,000	0	70,000
PE	Permitting	COMB	0	0	0	20,000	20,000	0	20,000
RW	Right of way (Engineering + Acquisition)	COMB	0	0	0	50,000	50,000	0	50,000
	Admin	COMB	30,000	0	0	0	0	30,000	30,000
Constr	Construction Admin/CM	COMB/ Consultant/ County	0	0	0	120,000	120,000	0	120,000
Constr	Construction Capital	County/Contractor	0	0	0	1,251,000	1,251,000	0	1,251,000
	Total		30,000	0	0	1,581,000	1,581,000	30,000	1,611,000

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	May 23, 2016
Submitted by:	Tim Robinson and Scott Volan
Approved by:	Janet Gingras

SUBJECT: Lake Cachuma Oak Tree Restoration Program

SUMMARY:

Maintenance

This memorandum on the Lake Cachuma Oak Tree Restoration Program reflects maintenance completed since June 1, 2015 to the present (6/1/15 – 5/23/16, Table 1). Labor and expenses for the entire fiscal year (July 2015 - June 2016) as well as water usage will be tracked separately but not reported as recommended by the COMB Board 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 inventory of all trees planted has been presented to the Lake Cachuma Oak Tree Committee at its 2/25/16 meeting as well as the 2015 Lakeshore Survey, which sets the mitigation number for 2015. Both the 2014 Annual Report and 2015 Lakeshore Survey have been completed and distributed to the COMB Board.

Table 1: Cachuma Oak Tree Program completed tasks since 6/1/15.

	June 2015	July 2015	August 2015	Sept 2015	Oct 2015	Nov 2015*	Dec 2015*	Jan 2016	Feb 2016**	March 2016	April 2016	May 2016
Year 8 Oaks (2015-2016)							New Trees	New Trees	New Trees	Irrigated	Irrigated	Irrigated
							Gopher Baskets	Gopher Baskets	Gopher Baskets	Weeded		Weeded
							Fert/Comp	Fert/Comp	Fert/Comp			
							Deer Cages	Deer Cages	Deer Cages			
							Mulch/Irrigated	Mulch/Irrigated	Mulch/Irrigated			
Year 7 Oaks (2014-2015)	Irrigated	Irrigated	Irrigated	Irrigated	Irrigated				Weeded	Irrigated	Irrigated	
	Weeded	Weeded	Weeded	Weeded	Weeded				Mulched	Mulched	Weeded	
	Cage maint.	Cage maint.	Cage maint.	Cage maint.						Weeded		
Year 6 Oaks (2010-2011)	Cage maint.				Weeded							Irrigated
					Mulched							Weeded
Year 5 Oaks (2009-2010)					Irrigated							
					Fertilized							
Year 4 Oaks (2008-2009)						Irrigated				Cage maint.		Irrigated
						Fertilized						
						Cage maint.						
Year 3 Oaks (2007-2008)						Irrigated				Cage maint.		Irrigated
						Fertilized						
						Cage maint.						
Year 2 Oaks (2006-2007)	Irrigated					Fertilized						
	Weeded											
Year 1 Oaks (2005-2006)	Irrigated					Fertilized						
	Weeded											

*November and December work included annual oak tree inventory

**February work included Year 8 oak tree inventory

The planting of new oak trees (Year 8) during the fall of 2015 and winter of 2016 was completed in February. Approximately 807 new oak trees were planted. The Fisheries Division finished another round of irrigation and weeding of the Year 8 oak trees in May. A spring watering regime is underway for the older age classes of oak trees. Maintenance has included irrigating, weeding, mulching, and cage maintenance at multiple

locations. The Fisheries Division has been running two separate watering crews in order to meet the needs of so many oak trees in the ground. They have been using a rented 2,000 gallon water truck as well as the existing water truck/trailer. The rented water truck has been in operation for three weeks and the benefits have already been noted to accelerate irrigation tasks and reduce the number of trips to the dam for refilling. Its use will only escalate as the dry warm months of the year arrive. The longevity of the program suggests purchasing a water truck would be more sensible than renting at \$900 per week. To this regard, a separate memo for Board consideration has been provided.

Some COMB Board members inquired about pest infestations that are threatening oak trees in California, particularly to the south. A memo is attached that provides background information and recommendations to address the potential risk (Exhibit 1).

FINANCIAL IMPACT: Tracked but not included.

LEGAL CONCURRENCE: N/A

ENVIRONMENTAL COMPLIANCE: N/A

COMMITTEE STATUS: N/A

RECOMMENDATION: For Board information only.

LIST OF EXHIBITS:

Exhibit 1 – Risk of Pest Infestation to Mitigation Trees of the Lake Cachuma Oak Tree Restoration Program.

CACHUMA OPERATION AND MAINTENANCE BOARD

MEMORANDUM

DATE: May 23, 2016

TO: Board of Directors

FROM: Scott Engblom and Tim Robinson

RE: **RISKS OF PEST INFESTATION TO MITIGATION TREES OF THE LAKE CACHUMA OAK TREE RESTORATION PROGRAM**

The following memo is an information only item in response to a COMB Board director's request for information regarding the threat of pest infestation to the mitigation oak trees of the Lake Cachuma Oak Tree Restoration Program. If action were to be taken, possible management actions are provided. The memo has been prepared in consultation with Ken Knight, consulting arborist and oak tree specialist for the Lake Cachuma Oak Tree Restoration Program, and Jeff Lindgren, South County Park Operations Manager.

BACKGROUND

The Cachuma Operations and Maintenance Board (COMB) has planted thousands of Coast Live Oak and Valley Oaks as mitigation for oaks lost as a result of raising the level of Bradbury Dam and surcharging Lake Cachuma since 2005. The investment COMB has made in these mitigated oaks is threatened by numerous insects that can cause various levels of injury or death to the planted and surrounding oak trees.

The Santa Barbara County Parks Division has addressed the issue of pest infestations by removing multiple dead and diseased trees from County Park facilities to prevent the potential spread of pests, conducted training of employees to be able to identify diseased trees, and installed posters at kiosks around Lake Cachuma warning visitors of the dangers of importing pests inhabiting firewood brought in from out of the area. They are in the process of updating the Lake Cachuma Park webpage to provide warnings and information about the potential risk and ways to safeguard Park resources. The County Park staff is doing their best to keep the Park trees in good health to ward off any potential infestation.

The range of insects affecting the oaks includes the following:

Native Pests

Oak Worms

Risk: Oak Worms are a native insect that can completely defoliate an oak tree. A healthy tree can normally grow new leaves, although this becomes a problem for new trees with limited foliage, and with multiple defoliations within one growing year.

Management: Sprays are generally not recommended due to likely reinfections by neighboring infected trees. Best course of action is to keep the tree healthy otherwise and let nature run its course.

Oak Boring Beetles

Risk: Native oak beetles such as ambrosia species generally attacks Coast Live Oak and Valley Oak trees stressed by drought and injury. Severe insect infestations can destroy a tree.

Management: Maintain trees in a healthy condition. If infestation on a tree is too severe for the oak to survive, removal and appropriate disposal of the tree may be the best option and carefully remove the beetle from the area while disposing appropriately.

Exotic Pests

Goldspotted Oak Borer (GSOB)

Risk: As of January 2016, GSOB has killed over 80,000 Coast Live Oak, Canyon Live Oak, and California Black Oak, most in San Diego County. GSOB has spread to Orange, Riverside and Los Angeles Counties. It was introduced from Arizona through imported firewood. GSOB has no natural enemies and once established in a location may kill or adversely impact 95% of susceptible oaks.

Management: Pesticides are not effective. Once GSOB is established in a tree, the only current course of action is to remove the tree. The best course of action is to prevent infected wood from moving into this area.

Polyphagous Shot Hole Borer (PSHB)

Risk: PSHB was introduced from Vietnam and can infect 286 different species, including most local native species such as oak, sycamores, alders, willows, cottonwoods, big leaf maples, etc. PSHB don't eat wood, they drill tunnels into the tree carrying fungal spores (*Fusarium*) in their mouths that they sow like seeds to feed their larvae when they hatch. The *Fusarium* fungus disrupts the vascular system of the tree, leading to severe impacts and tree death. PSHB has currently infested areas from Orange, Riverside, Los Angeles, Ventura Counties, with a related insect infesting San Diego County.

Management: Pesticides are not effective once the PSHB is established in a tree. Once PSHB is established in a tree, the only current course of action is to remove the tree and prevent infected wood from moving into an area.

Sudden Oak Death

Risk: Sudden Oak Death (SOD) is an exotic introduced disease that has killed hundreds of thousands of native oak and tanoak trees in California. *Phytophthora ramorum*, the causal agent of SOD, is a microscopic organism that is spread during periods of relatively warm, rainy weather typically during late spring. Current infestation occurs in northern California south to Monterrey County and sections of San Luis Obispo County.

Management: Phosphonates have been used to control SOD, along with removal of Bay Laurels which help transmit the disease. Based on our current knowledge, only oaks within 0.6 miles of known infected trees are at high risk of becoming infected. Water testing has had positive results in determining the presence of the SOD pathogen in a water course, but should not be used to determine risk of infection for neighboring trees.

POSSIBLE MANAGEMENT ACTIONS

The most effective way of managing invasive insects is to maintain trees in good health which will aide in stopping the spread of the disease. The most common way the diseases have been spread is through the importation of infected firewood into non-affected areas.

Possible management actions to combat invasive insects could include the following, among other items:

- Initiate a public awareness program warning of the dangers of imported firewood, particularly at County Park locations where fire pits are present;
- Post on the Lake Cachuma camping reservation web site a warning not to bring firewood from outside our area due to the risk of introducing pests to our region;
- Have Park Rangers patrol empty campsites and collect and properly dispose of firewood left by visitors;

- Identify symptoms of insect infestation in trees around County facilities, including tiny pinholes in tree bark, powder that looks like sawdust (called frass) around holes, and possibly large sap stains around holes for evaluation and possible treatment;
- Look for other infected tree species in an area of infestation;
- Dispose of diseased firewood carefully, either by bagging and disposal, or tarping and solarizing;
- Avoid spreading the disease through contaminated saws and pruners that can spread the disease like using an unsterilized hypodermic needle; sterilize equipment that is outside our region;
- Work closely with the County Parks and Agricultural Commission to collaborate management efforts; and
- Notify authorities including the County Agricultural Commissioner.

Additional information can be found at (search the entire line, its not an address):

- www.ucanr.edu–Invasive Shot Hole Borers
- www.ucanr.edu-Goldspotted Oak Borer
- www.ucanr.edu-Integrated Pest Management

CACHUMA OPERATION & MAINTENANCE BOARD

BOARD MEMORANDUM

Date:	May 23, 2016
Submitted by:	Tim Robinson and Scott Volan
Approved by:	Janet Gingras

SUBJECT: Lake Cachuma Oak Tree Restoration Program – Water Truck Purchase

SUMMARY:

The Fisheries Division is requesting to procure a water truck to facilitate the increased watering demands of the Oak Tree Program. The final oak tree mitigation requirement has been set at 4,721 trees. This is based on results from the 2015 Lakeshore Survey and the mortality rate determined from the 2014 Annual Report. With 906 and 807 oak trees planted in the past two years (Year 7 and Year 8 trees respectively), and an additional 1,100 trees that need planting, the Fisheries Division is looking for an additional water delivery system in the form of a 2,000 or 2,500 gallon water truck (see photo in Exhibit 2). These are single axel trucks that do not require a special driver's license. It's important to note that the Oak Tree Program's annual water usage has and will continue to remain low due to direct irrigation techniques (ex. FY14-15 total water use was 0.60 AF and FY15-16 total water use to date is 0.69 AF).

FINANCIAL IMPACT:

The Fisheries Division rented a 2,000 gallon water truck for 3 weeks in late April through early May at a rate of \$900/week. It worked well on trial run basis, but would be cost prohibitive in the long-term. The Fisheries Division is proposing to obtain used truck quotations with a price range not to exceed \$50,000 (new water trucks are over \$90,000). Used trucks with relatively high mileage are currently ranging between \$43,000 and \$60,000. The Fisheries Division would use this truck for oak tree irrigation throughout the year, while the Operations Division would potentially use this truck for de-watering structures, fire prevention, and project construction.

Given the broad operational utility of the proposed water truck, the cost of the vehicle could be split between the two divisions, 90% Fisheries Division and 10% Operations Division. Funds from the current FY15-16 budget would come from the Oak Tree Program and Operations Fixed Capital accounts.

LEGAL CONCURRENCE:

N/A

ENVIRONMENTAL COMPLIANCE:

The California Air Resources Board (CARB) requires that all diesel-fueled trucks with a gross vehicle rating (GVWR) greater than 14,000 pounds have a particulate filter to reduce particulate matter (PM) and oxides of nitrogen emissions from existing vehicles operated in California. However, there's a special provision for public agencies for diesel trucks that drive less than 1,000 miles/year. In this case, a COMB water truck would not be subject to CARB compliance measures if the water truck remains mostly on site near Bradbury Dam. Due to the proximity of planted oak trees around Lake Cachuma that need irrigation, and the fact that irrigation is not a year-round activity, COMB should be able to stay within this provision.

COMMITTEE STATUS:

The Lake Cachuma Oak Tree Committee recommended for staff to rent a water truck for a trial period and if its' utility proved to be beneficial, then investigate purchasing a water truck. A water truck was rented for a period of 3 weeks and it served to be of beneficial value for the program of work.

RECOMMENDATION:

Authorize the General Manager to execute a purchase order in an amount not-to-exceed \$50,000 to procure a 2,000-2,500 gallon water truck for the Oak Tree Program and limited Operations Division activities.

LIST OF EXHIBITS:

Exhibit 1: Online prices for used water trucks in California.

Year	Model	Class	Capacity (gallons)	Mileage	Price
2010	International 4300	7	2,500	195,600	\$43,900
2009	International 4300	6	2,000	171,000	\$48,000
2011	International 4300	6	2,000	182,000	\$49,500
2011	Ford F-750	7	2,500	?	\$53,187
2012	International 4400	8	2,000	66,459	\$58,500
2012	Freightliner M2	6	2,000	222,000	\$59,700

Exhibit 2: Example of a 2,000 gallon water truck.



CACHUMA OPERATION AND MAINTENANCE BOARD
METERED USE REPORT FOR APRIL 2016

LATERAL/ STATION	NAME	ACRE FEET METERED	LATERAL/ STATION	NAME	ACRE FEET METERED
CARPINTERIA WATER DISTRICT			GOLETA WATER DISTRICT		
Ortega South Flow		55.59	18+62	G. WEST	84.79
Asegra Road		(3.02)	78+00	Corona Del Mar FILTER Plant	278.38
Lambert Road		0.00	122+20	STOW RANCH	0.00
Toro Canyon		(0.35)		Bishop Ranch (Wynmark)(Water Rights)	0.00
				Raytheon (SWP) (Warren Act Contract)	(3.00)
				Morehart (SWP) (Warren Act Contract)	(3.00)
				SWP CREDIT (Warren Act Contract)	(357.17)
			TOTAL		0.00
			MONTECITO WATER DISTRICT		
			260+79	BARKER PASS	80.71
			386+65	MWD YARD	0.00
			487+07	VALLEY CLUB	5.20
			499+65	E. VALLEY-ROMERO PUMP	94.52
			599+27	TORO CANYON	0.35
			510+95	ORTEGA CONTROL	3.00
			510+95	MWD PUMP (SWD)	8.66
			526+43	ASEGRA RD	3.02
			555+80	CO. YARD	0.00
			583+00	LAMBERT RD	0.00
				SWP CREDIT (Warren Act Contract)	0.00
			TOTAL		195.46
			CITY OF SANTA BARBARA		
			CATER	INFLOW	840.48
			"	SO. FLOW	(368.68)
			Gibraltar	PENSTOCK	(52.31)
			Sheffield	SHEF.LIFT	105.54
				STANWOOD MTR TO SCC-credit	0.00
				SWP (Warren Act)	(475.88)
				La Cumbre Mutual SWP (Warren Act)	(49.15)
			TOTAL		0.00
			SANTA YNEZ RIVER WATER CONSERVATION DISTRICT, ID#1		
				COUNTY PARK, ETC	2.21
			TOTAL		2.21
			BREAKDOWN OF DELIVERIES BY TYPE:		
				STATE WATER DELIVERED TO LAKE	1283.00
				STATE WATER TO SOUTH COAST (including from storage)	(917.20)
				BISHOP RANCH DIVERSION	0.00
			METERED DIVERSION		220.89
STATE WTR CREDIT					(29.00)
TOTAL		23.22			
Note: COMB meter reads were taken on 4/29/2016					

15-16 ENTITLEMENT

**CACHUMA OPERATION AND MAINTENANCE BOARD
WATER PRODUCTION AND WATER USE REPORT
FOR THE MONTH OF APRIL 2016 AND THE WATER YEAR TO DATE**

(All in rounded Acre Feet)

	MONTH				YTD	
	TOTAL				TOTAL	
WATER PRODUCTION:						
Cachuma Lake (Tec. Diversion)	1,208				7,621	
Tecolote Tunnel Infiltration	29				432	
Cachuma Lake (County Park)	2				10	
State Water Diversion Credit	917				2,879	
Bishop Ranch Diversion	0				0	
Meter Reads	221				4,760	
So. Coast Storage gain/(loss)	46				(1)	
Total Production	1,239				8,063	
Total Deliveries	1,185				7,638	
Unaccounted-for	55				425	
% Unaccounted-for	4.42%				5.27%	
	GWD	SB CITY	MWD	CVWD	SYRWCD	TOTAL
WATER USE:						
					I.D. #1	
M&I	0	0	174	10	2	187
Agricultural	0	0	21	13	0	34
	0	0	195	23	2	221
Unaccounted Reconciliation~	13	28	11	3	0	55
Total for Month	13	28	207	27	2	276
Same Mo/prev. yr	42	195	0	0	3	240
M&I Yr to date	1,051	1,896	1,025	138	9	4,119
Ag. Yr to date	413	0	110	189	0	712
TOTAL YTD	1,464	1,896	1,136	327	9	4,831
USAGE % YTD	67.0%	42.7%	32.6%	28.0%	16.4%	42.6%
Previous Year/YTD	1,585	1,172	0	483	14	3,254
Evaporation #	0	0	0	0	0	0
Evaporation, YTD	0	0	0	0	0	0
Entitlement ***	0	0	0	0	0	0
Carryover	2,168	4,399	3,486	1,165	56	11,274
Carryover Balances Spilled YTD	0	0	0	0	0	0
Surplus^^	0	0	0	0	0	0
State Water Exchange^	0	0	0	0	0	0
Unaccounted credit (SWP report)~	17	45	0	0	0	62
Transfers/Adjustment	0	0	0	0	0	0
Passthrough H2O**	0	0	0	0	0	0
TOTAL AVAILABLE	2,185	4,444	3,486	1,165	56	11,336
REMAINING BALANCE	721	2,548	2,350	838	47	6,505

*** Per USBR advisory letter dated 7/2/2015 to SB County, zero (0) of entitlement allocated.

** City is operating under pass through mode declared November 2008.

State Water Deliveries for March to Lake Cachuma were: MWD 0 AF; CVWD 0 AF

GWD 596 AF (Morehart 0 AF); City of S.B. 367 AF; and LaCumbre 0 AF; (Ratheon 0 AF).

^ Per SWP Exchange Agrmt GWD received 0 AF; MWD received 0 AF;

City of SB received 0 AF; and CVWD received 0 AF from ID#1 in March 2016.

Per USBR email dated 12/23/2015, evap charged to unallocated water.

~ Unaccounted water - (April 55 AF) (Once concurrence on methodology is reached, accounts will be reconciled)

(Est. 7 AF Lauro Evap @ SCMU entitlement)

(Cater Treatment Plant Losses @ 2% of Cater Influent - 17 AF)(Calc @ percentage of 3 SCMU deliveries)

(Ortega Toe Drain = 1 AF - MWD)

(Remainder - 31 AF @ percentage of total deliveries)

CACHUMA OPERATION AND MAINTENANCE BOARD

WATER STORAGE REPORT

MONTH: **April 2016**

GLEN ANNIE RESERVOIR

Capacity at 385' elevation:	518 Acre Feet
Capacity at sill of intake at 334' elevation:	21 Acre Feet
Stage of Reservoir Elevation	333.00 Feet
Water in Storage	21.82 Acre Feet

LAURO RESERVOIR

Capacity at 549' elevation:	600 Acre Feet
Capacity at sill of intake at 512' elevation:	84.39 Acre Feet
Stage of Reservoir Elevation	546.30 Feet
Water in Storage	535.60 Acre Feet

ORTEGA RESERVOIR

Capacity at 460' elevation:	65 Acre Feet
Capacity at outlet at elevation 440':	0 Acre Feet
Stage of Reservoir Elevation	446.80 Feet
Water in Storage	18.90 Acre Feet

CARPINTERIA RESERVOIR

Capacity at 384' elevation:	45 Acre Feet
Capacity at outlet elevation 362':	0 Acre Feet
Stage of Reservoir Elevation	376.70 Feet
Water in Storage	27.27 Acre Feet

TOTAL STORAGE IN RESERVOIRS

Change in Storage	45.64 Acre Feet
-------------------	-----------------

CACHUMA RESERVOIR*

Capacity at 750' elevation:	184,121 Acre Feet
Capacity at sill of tunnel 660' elevation:	24,281 Acre Feet

Stage of Reservoir Elevation	664.78 Feet
Water in Storage	28,399 AF
Surface Area	893
Evaporation	543.4 AF
Inflow	294.0 AF
Downstream Release WR8918	0.0 AF
Fish Release (Hilton Creek)	66.4 AF
Outlet	154.6 AF
Spill/Seismic Release	0 AF
State Project Water	1283.2 AF
Change in Storage	-378 AF
Tecolote Diversion	1,208.4 AF

Rainfall: Month: 0.24 Season: 11.27 Percent of Normal: 58%

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

Contract Year: 10/1/15 to: 9/30/16

Contract Entity: Carpinteria Valley Water District
 Last updated by C.O.M.B. 4/30/16

Month	Approved Schedule Current Year		Carryover Previous Year	TOTAL WATER USED			WATER USED CHARGED TO CARRYOVER BALANCES			WATER USED CHARGED TO CURRENT ENTITLEMENT		
	M & I	Agr		Total	Evap	Div	Total	M & I	Allocation	Agr	M & I	Agr
Oct	56	84	140	0	140	140	56	84	0	0	0	0
Nov	20	32	52	0	52	52	20	32	0	0	0	0
Dec	47	60	107	0	107	107	47	60	0	0	0	0
Jan	0	0	0	0	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0	0	0	0	0
Mar	1	0	1	0	1	1	0	0	0	0	0	0
Apr	27	0	27	0	27	27	27	0	0	0	0	0
May	0	0	0									
Jun	0	0	0									
Jul	0	0	0									
Aug	0	0	0									
Sep	0	0	0									
Total	151	176	327									

Month	STORAGE WATER		CONVERSIONS		CURRENT SCHEDULE		SCHEDULE AND REVISIONS	
	M & I	Agr	M & I	Agr	M & I	AG	M & I	AG
Oct	0	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0	0
Jan	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0
Total	0	0	1,165	600	1,165	565	0	0

Month	REMAINING BALANCES	
	M & I	AG
Oct	544	481
Nov	524	449
Dec	477	389
Jan	477	389
Feb	477	389
Mar	477	389
Apr	450	389
May		
Jun		
Jul		
Aug		
Sep		
Total	1,025	481

TOTAL 838

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

Contract Year: 10/1/15 to: 9/30/16

Contract Entity: **Goleta Water District**
 Last updated by **C.O.M.B. 4/30/16**

Month	Approved Schedule Current Year	Carryover Previous Year	TOTAL WATER USED			WATER USED CHARGED TO CARRYOVER BALANCES				WATER USED CHARGED TO CURRENT ENTITLEMENT		
			M & I	Agr	Total	Evap	Div	Total	M & I	Agr	Total	M & I
Oct	0	2168	397	170	567	0	567	397	170	0	0	0
Nov			319	137	456	0	456	319	137	0	0	0
Dec			318	106	424	0	424	318	106	0	0	0
Jan			0	0	0	0	0	0	0	0	0	0
Feb			0	0	0	0	0	0	0	0	0	0
Mar			0	0	0	0	0	0	0	0	0	0
Apr			0	0	0	0	0	0	0	0	0	0
May			0	0	0	0	0	0	0	0	0	0
Jun			0	0	0	0	0	0	0	0	0	0
Jul			0	0	0	0	0	0	0	0	0	0
Aug			0	0	0	0	0	0	0	0	0	0
Sep			0	0	0	0	0	0	0	0	0	0
Total	0	2168	1,034	413	1,447							

Month	STORAGE WATER			CONVERSIONS			SCHEDULES AND REVISIONS		
	M & I	Agr	Total	M & I	Agr	Total	M & I	AG	AG
Oct	0	0	0	0	0	0	722	0	0
Nov	0	0	0	0	0	0			
Dec	0	0	0	0	0	0			
Jan	0	0	0	0	0	0			
Feb	0	0	0	0	0	0			
Mar	0	0	0	0	0	0			
Apr	0	0	0	0	0	0			
May	0	0	0	0	0	0			
Jun	0	0	0	0	0	0			
Jul	0	0	0	0	0	0			
Aug	0	0	0	0	0	0			
Sep	0	0	0	0	0	0			
Total	0	0	0	1,446	722	2,168			

Month	REMAINING BALANCES		
	M&I	AG	Total
Oct	1,601	552	2,153
Nov	1,145	415	1,560
Dec	721	309	1,030
Jan	721	309	1,030
Feb	721	309	1,030
Mar	721	309	1,030
Apr	721	309	1,030
May	721	309	1,030
Jun			
Jul			
Aug			
Sep			
Total	11,446	722	12,168

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

Contract Year: 10/1/15 to: 9/30/16

Contract Entity: **Montecito Water District**
 Last updated by C.O.M.B. 4/30/16

Month	Approved Schedule Current Year		Carryover Previous Year	TOTAL WATER USED				WATER USED CHARGED TO CARRYOVER BALANCES				WATER USED CHARGED TO CURRENT ENTITLEMENT		
	M & I	Agr		total	Evap	Div	Total	Allocation		M & I	Agr	Total		
								M & I	Agr					
Oct	263	34	297	0	297	297	263	34	0	0	0	0	0	
Nov	174	25	199	0	199	199	174	25	0	0	0	0	0	
Dec	177	15	192	0	192	192	177	15	0	0	0	0	0	
Jan	80	6	86	0	86	86	80	6	0	0	0	0	0	
Feb	16	1	17	0	17	17	16	1	0	0	0	0	0	
Mar	130	9	139	0	139	139	130	9	0	0	0	0	0	
Apr	186	21	207	0	207	207	186	21	0	0	0	0	0	
May	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jun	0	0	0	0	0	0	0	0	0	0	0	0	0	
Jul	0	0	0	0	0	0	0	0	0	0	0	0	0	
Aug	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sep	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	1,026	111	1,137											

Month	STORAGE WATER		CONVERSIONS		CURRENT SCHEDULE		SCHEDULE AND REVISIONS	
	M & I	Agr	M & I	Agr	M & I	Agr	M & I	Agr
Oct	0	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0	0
Jan	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0

Month	REMAINING BALANCES		SCHEDULE AND REVISIONS		REMAINING BALANCES	
	M & I	Agr	M & I	Agr	M & I	Agr
Oct	3,189	313	2,960	263	0	0
Nov	2,990	288	2,786	0	0	0
Dec	2,798	273	2,609	0	0	0
Jan	2,712	267	2,529	0	0	0
Feb	2,695	266	2,513	0	0	0
Mar	2,556	257	2,383	0	0	0
Apr	2,349	236	2,197	0	0	0
May						
Jun						
Jul						
Aug						
Sep						
Total	3,189	313	2,960	263	0	0

TOTAL 2,349

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

Contract Year: 10/1/15 to: 9/30/16

Contract Entity: City of Santa Barbara
 Last updated by C.O.M.B. 4/30/16

Month	Approved Schedule Current Year		Carryover Previous Year	WATER USE CHARGED TO CARRYOVER BALANCES				Allocation		WATER USE CHARGED TO CURRENT ENTITLEMENT		
	M & I	Agr		total	Evap	Div	Total	M & I	Agr	M & I	Agr	Total
Oct	667	0	667	0	667	667	667	667	0	0	0	0
Nov	487	0	487	0	487	487	487	487	0	0	0	0
Dec	447	0	447	0	447	447	447	447	0	0	0	0
Jan	34	0	34	0	34	34	34	34	0	0	0	0
Feb	85	0	85	0	85	85	85	85	0	0	0	0
Mar	131	0	131	0	131	131	131	131	0	0	0	0
Apr	0	0	0	0	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0	0	0	0	0
Total	1,851	0	1,851	0	0	0	0	4,399	0	0	0	0

Month	STORAGE WATER		CONVERSIONS		CURRENT SCHEDULE		SCHEDULE AND REVISIONS	
	M & I	Agr	M & I	Agr	M & I	Agr	M & I	Agr
Oct	0	0	0	0	0	0	0	0
Nov	0	0	0	0	0	0	0	0
Dec	0	0	0	0	0	0	0	0
Jan	0	0	0	0	0	0	0	0
Feb	0	0	0	0	0	0	0	0
Mar	0	0	0	0	0	0	0	0
Apr	0	0	0	0	0	0	0	0
May	0	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0	0
Total	0	0	0	0	4,399	0	4,399	0

Month	REMAINING BALANCES	
	M & I	Agr
Oct	3,732	0
Nov	3,245	0
Dec	2,798	0
Jan	2,764	0
Feb	2,679	0
Mar	2,548	0
Apr	2,548	0
May	2,548	0
Jun	0	0
Jul	0	0
Aug	0	0
Sep	0	0
Total	3,732	0

TOTAL 2,548

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

Contract Year: 10/1/15 to: 9/30/16

Contract Entity: Santa Ynez River Water Conservation District, ID#1
 Last updated by C.O.M.B. 4/30/16

Month	TOTAL WATER USED		WATER USE CHARGED TO CARRYOVER BALANCES			WATER USE CHARGED TO CURRENT ENTITLEMENT	
	M & I	Agri	Evap	Div	Total	M & I	Agri
Oct	2	0	0	2	2	0	0
Nov	1	0	0	1	1	0	0
Dec	1	0	0	1	1	0	0
Jan	1	0	0	1	1	0	0
Feb	1	0	0	1	1	0	0
Mar	1	0	0	1	1	0	0
Apr	2	0	0	2	2	0	0
May	0	0	0	0	0	0	0
Jun	0	0	0	0	0	0	0
Jul	0	0	0	0	0	0	0
Aug	0	0	0	0	0	0	0
Sep	0	0	0	0	0	0	0
Total	10	0	0	10	10	0	0

CONVERSIONS

STORAGE WATER		CURRENT SCHEDULE	
M & I	Agri	M & I	Agri
2	-2	0	0
1	-1	0	0
1	-1	0	0
1	-1	0	0
1	-1	0	0
1	-1	0	0
2	-2	0	0

SCHEDULE AND REVISIONS

Total		M & I		Agri	
Begin Bal	56	0	0	56	0
Month					
Oct					
Nov					
Dec					
Jan					
Feb					
Mar					
Apr					
May					
Jun					
Jul					
Aug					
Sep					

COUNTY PARKS

A.F. Used		REMAINING BALANCES	
Month	A.F. Used	M & I	Agri
Oct	1.61	0	54
Nov	1.38	0	53
Dec	1.38	0	52
Jan	0.97	0	51
Feb	1.26	0	50
Mar	1.41	0	49
Apr	2.21	0	47
May			
Jun			
Jul			
Aug			
Sep			
Total	16.56	0	477

*NOTE:

TOTAL 47

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

MONTH	DELVRD TO LAKE	CVWD		Delvd to SC	Evap	MWD		Delvd to Lake	Evap/Spill	Delvd to SC	S.B.		Delvd to SC	GWD	Delvd to Lake	Evap/Spill	Delvd to SC	LCMWC		Delvd to SC	RSYS	Delvd to Lake	Delvd to SC	MLC	Delvd to SC		
		Delvd to Lake	Stored			Delvd to Lake	Stored				Delvd to Lake	Stored						Delvd to Lake	Stored							Delvd to Lake	Stored
2015																											
Bal. Frwd	0	0	0	0	0	0	874	0	0	0	0	0	0	0	0	0	0	0	609	0	0	0	0	0	0	0	
January	833	0	0	0	5	104	765	5	363	0	363	0	269	0	470	201	0	561	3	44	0	0	0	0	0	0	
February	789	0	0	0	7	107	650	7	366	0	366	0	130.1	0	423	492	2	510	5	46	0	0	0	0	0	0	
March	1284	170	52	118	0	282	725	0	363	0	363	0	501	0	462	444	9	456	9	46	5	0	5	2	0	2	
April	1152	192	130	111	3	331	807	18	428	0	428	0	626	0	193	0	11	434	11	11	5	0	5	3	0	3	
May	658	108	139	95	4	237	762	23	305	0	305	0	0	0	0	0	13	413	13	8	5	0	5	3	0	3	
June	371	0	50	84	6	0	507	30	366	0	366	0	0	0	0	0	16	390	16	6	0	0	0	5	0	5	
July	306	0	0	48	2	0	186	21	306	0	306	0	0	0	0	0	16	368	16	6	0	0	0	0	0	0	
August	40	0	0	0	0	0	0	12	35	0	35	0	0	0	0	0	24	340	24	5	0	0	0	5	0	5	
September	42	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	340	22	13	0	0	0	7	0	7	
October	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	288	15	37	0	0	0	0	0	0	
November	60	20	0	20	0	20	0	0	20	0	20	0	0	0	0	0	9	217	9	63	0	0	0	0	0	0	
December	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	140	5	72	0	0	0	7	0	7	
Total	5542	490	0	475.7	14	870	0	128	2552	0	2552	0	1548	0	21	1526	35	140	149	355	15	0	15	32	0	32	

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

MONTH	DELVRD TO LAKE	CVWD		Delvd to SC	Evap	MWD		Delvd to Lake	Evap/Spill	Delvd to SC	S.B.		Delvd to SC	GWD	Delvd to Lake	Evap/Spill	Delvd to SC	LCMWC		Delvd to SC	RSYS	Delvd to Lake	Delvd to SC	MLC	Delvd to SC	
		Delvd to Lake	Stored			Delvd to Lake	Stored				Delvd to Lake	Stored						Delvd to Lake	Stored							
2016																										
Bal. Frwd	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	140	0	0	0	0	0	0	0	
January	653	54	38	16	0	0	0	0	367	0	367	0	64	0	200	136	0	157	3	10	0	0	0	2	0	
February	693	0	36	0	2	125	0	0	366	0	366	0	197	0	200	131	8	142	9	6	0	0	2	0	2	
March	965	0	33	0	3	0	0	0	367	0	367	0	192	0	596	525	10	116	11	14	0	0	2	0	2	
April	1283	0	0	29	4	0	0	0	677	156	45	476	357	0	600	685	17	53	15	49	3	0	3	0	3	
May	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
June	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
July	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
August	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
September	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
October	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
November	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
December	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	3594	54	0	45	9	125	0	0	1777	156	1576	83	811	1596	685	83	37	53	80	3	0	3	9	0	9	



**Santa Barbara County Parks Division,
Cachuma Lake Recreation Area**



**Summary of Aquatic Invasive Species Vessel Inspection Program
and Early Detection Monitoring Program: April 2016**

AIS INSPECTION PROGRAM LAUNCH DATA:

Cachuma Lake Recreation Area Launch Data -- April 2016		
Inspection Data		
Total Vessels entering Park	92	
Total Vessels launched	91	
Total Vessels Quarantined	1	1%
Returning with Boat Launch Tag	4	4%
New: Removed from Quarantine	*	
Kayak/Canoe: Inspected, launched	87	96%
4-stroke Engines	*	
2-strokes, w/CARB star ratings	*	
2-strokes, NO emissions ratings	*	
Quarantine Data		
Total Vessels Quarantined	1	
Quarantined 7 days	*	
Quarantined 14 days	*	
Quarantined 30 days	1	
Quarantine Cause		
Water on vessel*	*	
Debris on hull*	*	
Plug installed*	*	
From infected county	0	
Ballast tanks*	*	
Boat longer than 24 feet*	*	
Out-of-state	0	
Unspecified*	*	
Mandatory Quarantine All Untagged Boats	1	
Demographic Data		
Quarantined from infected county	0	
Quarantined from SB County	1	
Quarantined from uninfected co	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
 Inspection site: Cachuma Lake Marina, Santa Barbara County, California
 Inspection Date and Time: 2016.04.22; 10:00 – 14:00 PDT
 Method: 7 PVC/Cement Sampling Stations; 125 linear feet of line
 Surveyors: Rosey Bishop and Kurt Langel (SBCO Parks), Liz Gaspar (SBCO volunteer)
 Lake elevation: Max feet: 753.00, current: 665.13; Max acre-feet: 193,000, current: 28,714;
 Current capacity: 14.9%