LAVWMA WATER Resource Recovery

Livermore-Amador Valley Water Management Agency

REGULAR MEETING
OF THE BOARD OF DIRECTORS
OF THE LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

Wednesday, November 18, 2020, 6:00 p.m.

Due to Shelter in Place Orders, this meeting will be conducted via teleconference.

Meeting participants and the public may participate through computer video and audio by clicking on the following link:

https://us02web.zoom.us/j/86952661811

We recommend using your full name to log in for the meeting for ease of identification and recordkeeping purposes.

Meeting ID: 869 5266 1811

One tap mobile if using audio only from a telephone and not a computer
+1 669 900 9128 86952661811# US (San Jose)

See below for additional info on participation procedures.

1. Call to Order

2. Pledge of Allegiance

3. Roll Call

4. Order of Agenda/Acknowledgement of Posting
(The agenda may be re-ordered by motion of the Board. The agenda has been posted virtually on the Agency's website and, to the extent possible under the circumstances, physically in the display case outside the DSRSD Building, Pleasanton City Hall and Livermore City Hall at least 72 hours prior to a regular meeting and 24 hours prior to a special meeting.)

5. Public Comment
(See text in box below for information on how to observe and submit public comments.)

Action **6. Consent Calendar**
(All items on the Consent Calendar will be considered together by one or more action(s) of the Board unless a Board member pulls an item.)

Pages 5 – 7 **6.a. Board Meeting Minutes of August 19, 2020**
(The Board will consider approving the minutes from the August 19, 2020 Board meeting.)

Information **7.** **Financial Reporting for the Fiscal Year Ending June 30, 2021**
Pages 8 – 13
(The Board will review the Financial Reports for the Fiscal Year ending June 30, 2021.)

Action **8.** **Acceptance of Audit Report for Fiscal Year Ending June 30, 2020**
Pages 14 – 44
(The Board will consider accepting the Audit Report for the Fiscal Year ending June 30, 2020 as prepared by Maze & Associates.)

Information **9.** **LAVWMA Quarterly Report of Operations, 1st Quarter, FY2020-2021**
Pages 45 – 70
(The Board will review the Quarterly Report of Operations, 1st Quarter, FY2020-2021.)

Information **10.** **Project Status Reports - Risk Analysis of the Pump Station / Failure Analysis of the Forcemain System Project and Engineering Services for the Motor Control Center Replacement Project**
Pages 71– 76
(The Board will receive status reports on two projects at the Export Pump Station.)

Action **11.** **Modification No. 1 to the Operating and Capital Budget for Fiscal Year 2020/21**
Pages 77– 100
(The Board will consider Modification No. 1 to the Operating and Capital Budget for Fiscal Year 2020/21 for the Motor Control Center Replacement Project.)

Resolution **12.** **Approval of a Resolution Awarding an Agreement for the Export Pump Station - MCC Replacement Project to Vellutini Corporation dba Royal Electric Company**
Pages 101– 102
(The Board will consider approving a Resolution authorizing the General Manager to execute an agreement for the MCC Replacement Project, in a form approved by the General Counsel, to Royal Electric Company, the lowest responsive and responsible bidder, at a not to exceed cost of $2,222,222.)

Action **13.** **Status Report on Negotiations with East Bay Dischargers Authority for a New Master Agreement and Consideration of the Appointment of a Board Subcommittee and Authorization of a Potential Extension of the Master Agreement**
Pages 103 – 104
(The Board will receive a status report on staff's ongoing negotiations with East Bay Dischargers Authority for a New Master Agreement. The Board may appoint less than a majority of its members to act as a temporary subcommittee to provide input on negotiations and make a recommendation to the full Board regarding a new Master Agreement. The Board may also authorize an extension of the Master Agreement.)

Information **14.** **Update and Response to Various Legal and Legislative Issues**
Pages 105 – 129
(The Board will receive a report regarding proposed legislation and legal developments affecting LAVWMA and its member agencies.)

Information **15.** **General Manager's Report**
Pages 130 – 136
(The Board will review the General Manager's Report regarding the operations and maintenance of the Agency and its facilities.)

Information **16. Matters From/For Board Members**
(Board members may make brief announcements or reports on his or her own activities, pose questions for clarification, and/or request that items be placed on a future agenda. Except as authorized by law, no other discussion or action may be taken.)

17. Closed Session
Conference with Legal Counsel - Anticipated Litigation
Initiation of litigation pursuant to Government Code §54956.9(d)(4) (one potential case).

18. Public Report from Closed Session

19. Next Regular Board Meeting, Wednesday, February 17, 2021, 6:00 p.m.

20. Adjournment

IMPORANT NOTICE REGARDING COVID-19 AND TELECONFERENCED MEETINGS:

Due to shelter in place mandates issued by the Governor in Executive Order 33-20 and the County Public Health Officer, to minimize the spread of the coronavirus, please note the following changes to LAVWMA's ordinary meeting procedures:
- LAVWMA's facilities are not open to the public during this emergency.
- The meeting will be conducted via teleconference. (See Executive Order 29-20)
- All members of the public seeking to observe and/or to address the Board may participate in the meeting telephonically in the manner described below.

HOW TO PARTICIPATE IN THE MEETING:
For both audio and video through a computer, click on the following link:
https://us02web.zoom.us/j/86952661811 Meeting ID: 869 5266 1811
For audio only via telephone, dial 1 669 900 9128 then enter the following code 86952661811#

NOTE: This is a public meeting that can be heard live by any member of the public. It may be recorded to facilitate taking meeting minutes.

HOW TO SUBMIT PUBLIC COMMENTS:
Written / Read Aloud: Please email your comments to info@lavwma.com, write "Public Comment" in the subject line. In the body of the email, include the agenda item number and title, as well as your comments. If you would like your comment to be read aloud at the meeting (not to exceed three (3) minutes at staff's cadence), prominently write "Read Aloud at Meeting" at the top of the email. All comments received before 12:00 PM the day of the meeting will be included as an agenda supplement on LAVWMA's website under the relevant meeting date and provided to the Directors at the meeting. Comments received after this time will be treated as concurrent comments.

Concurrent Comments: During the meeting, the Board Chair or designee will announce the opportunity to make public comments and identify the cut off time for submission. A short recess (generally less than 5 minutes) will take place during the time public comment is open to allow the comments to be collected, unless it is clear no member of the public is participating. Please email your comments to info@lavwma.com, write "Public Comment" in the subject line. In the body of the email, include the agenda item number and title, as well as your comments. Once the public comment period is closed, all

comments timely received will be read aloud. Comments received after the close of the public comment period will be added to the record after the meeting.

ACCESSIBILITY INFORMATION:
Board Meetings are accessible to people with disabilities and others who need assistance. Individuals who need special assistance or a disability-related modification or accommodation (including auxiliary aids or services) to observe and/or participate in this meeting and access meeting-related materials should contact Chuck Weir, General Manager, as soon as possible but at least 72 hours before the meeting at (925)-875-2202 or info@lavwma.com. Advanced notification will enable LAVWMA to swiftly resolve such requests to ensure accessibility.

PUBLIC RECORDS:
Public records that relate to any item on the open session agenda for a meeting are available for public inspection. Those records that are distributed after the agenda posting deadline for the meeting are available for public inspection at the same time they are distributed to all or a majority of the members of the Board. The Board has designated LAVWMA's website located at http://lavwma.com/agency_meetings.php as the place for making those public records available for inspection. The documents may also be obtained by contacting the General Manager.

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LAVWMA

Livermore-Amador Valley Water Management Agency

Draft

Minutes

Regular Meeting of Board of Directors
Wednesday, August 19, 2020
Due to Shelter in Place Orders, this was a web meeting available to participants and the public through the following link: https://us02web.zoom.us/j/85911425765.
6:00 p.m.

1. Call to Order
Chair Bob Woerner called the meeting to order at 6:01 p.m.

2. Pledge of Allegiance

3. Roll Call
Board Members Present: Chair Bob Woerner; Vice Chair Ed Duarte; Directors John Marchand, Jerry Pentin, and Julie Testa

Board Members Absent: Ann Marie Johnson

Staff Present: General Counsel Alexandra Barnhill, General Manager Chuck Weir, Treasurer Carol Attwood, DSRSD Operations Manager Jeff Carson, and Recording Secretary Sue Montague

Staff Absent: None

Others Present: Helen Ling, City of Livermore; Daniel Repp, City of Pleasanton

4. Order of Agenda
There were no changes to the order of the agenda.

5. Comments from the Public
There were no comments from the public.

6. Consent Calendar
a. Minutes of May 20, 2020 LAVWMA Board Meeting

Director Marchand motioned, seconded by Director Duarte to approve Consent Calendar Item No. 6.a.

The Motion passed unanimously (5-0) by a roll call vote.

7. Financial Reporting for the Fiscal Year Ending June 30, 2020
Treasurer Atwood noted that the financial statement was preliminary as the annual fiscal audit was currently underway. She discussed PG&E power costs and EBDA costs. PG&E

power costs were slightly above budget, but less than last year. EBDA costs were higher than budget due to the payment of EBDA's CalPERS and Other Postretirement Employee Benefits. EBDA has a policy to fund both items to a 90% level in an effort to avoid higher future costs. The payment was made prior to COVID-19. There was discussion as to whether future payments could become an issue for cities due to loss of revenue from COVID-19. The General Manager offered to check with EBDA on this issue.

This was an information item requiring no action by the Board.

8. LAVWMA Quarterly Reports of Operations, 4th Quarter, FY2019-2020

The Board reviewed the Report and noted that costs were normal and there were no major equipment issues. There was discussion about the status of the three-pump repair and how they might impact future efficiency measurements. Jeff Carson noted that testing was being conducted on vibration sensors for the pumps and motors to help identify issues before they become problems.

This was an information item requiring no action by the Board.

9. Project Status Reports – Risk Analysis of the Pump Station / Failure Analysis of the Forcemain System and Engineering Services for the Motor Control Center Replacement Project

Mr. Weir noted that both projects were progressing well despite having to deal with COVID-19 issues. The pump station modeling analysis has been completed and will be extremely useful in identifying capacity needs in the EBDA system as well as in the NPDES permit renewal process. The plan for pipeline inspection is nearly complete, including traffic control needs, and should begin in mid-September.

The MCC project is also progressing smoothly. Eighty percent plans and specs have been reviewed by staff and responded to by the consultant. The consultant also agreed to add the switchgear improvements project to his existing scope with no increase in costs. The full project will likely go out to bid in September. Mr. Weir noted that a related project to replace the Programmable Logic Controller will need to be delayed due to COVID-19 but will likely be combined with DSRSD's Supervisory Control and Data Acquisition System (SCADA) replacement project.

This was an information item only requiring no action by the Board.

10. Electronic Signature Policy

General Counsel Barnhill summarized the need for and particulars of the proposed Electronic Signature Policy and the recommendation to use DocuSign as the service provider. There was discussion concerning the terms "digital signature" and "electronic signature." They are defined in statute and have the same meaning per the proposed policy. An electronic signature must meet five criteria to have the same force and effect as a manual signature. The Board expressed its support for the Policy both in response to COVID-19 issues and to increase efficiency.

Director Marchand motioned, seconded by Director Duarte to approve the Electronic Signature Policy.

The Motion passed unanimously (5-0) by a roll call vote.

11. Update and Response to Various Legal and Legislative Issues
Due to COVID-19 the Legislature has been relatively quiet on developing new legislation and processing existing legislation. Currently there are few new issues of concern.

This was an information item only requiring no action by the Board.

12. General Manager's Report
Mr. Weir referred to the list of issues and activities in his report. Mr. Weir provided an overview of the capital projects list that has been developed in conjunction with DSRSD staff. Mr. Weir and Ms. Barnhill provided an update on the status of the EBDA negotiations. Mr. Weir noted that both CASA and BACWA have summaries of regulatory issues that are updated periodically. The CASA summary was received just prior to the Board meeting. He offered to send both items to the Board and staff.

13. Matters From/For Board Members
There were no matters from the Board.

14. Next Regular Board Meeting, Wednesday, November 18, 2020 at 6:00 p.m.

15. Adjournment
There being no further action, Chair Woerner adjourned the meeting at 7:04 p.m.

Minutes Approved by the Board _____.

Charles V. Weir
General Manager

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Agenda Explanation
Livermore-Amador Valley
Water Management Agency
Board of Directors
November 18, 2020

ITEM NO. 7 FINANCIAL REPORTING FOR THE FISCAL YEAR ENDING JUNE 30, 2021

Action Requested
None at this time. This is an information item only.

To: LAVWMA Board of Directors

From: Carol Atwood, LAVWMA Treasurer

Subject: Financial Reporting for FYE 2021

Summary
Attached are the financial statements for the period July 1, 2020 through September 30, 2020.

Attachments

Schedule of Sub Fund Account Activity – Shows the income and expense transactions for LAVWMA in each fund. Most of LAVWMA's activity will be in the Operations & Maintenance fund.

Schedule of Sub Fund Account Balance Sheets– Shows the assets and liabilities of LAVWMA in each of its funds.

O&M Fund Budget vs. Actual – Shows the status of the budget to actual expenses for the O&M Fund for the period July 1, 2020 through September 30, 2020 and period July 1, 2019 through September 30, 2019.

Treasurer's Report – A report showing how LAVWMA's available cash is invested.

General Management Expenses Listing – All general LAVWMA invoices are approved by the LAVWMA GM and Treasurer prior to payment by DSRSD. Those invoices are summarized and are billed to LAVWMA on a monthly basis via the DSRSD bill to LAVWMA. This listing is supplemental information requested by the LAVWMA General Manager to show the vendor, description, and amount of each invoice in more detail.

Recommendation
None at this time. This is an information item only.

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
SCHEDULE OF SUB FUND ACCOUNT ACTIVITY
July 2020 through September 2020

				Repair and Replacement Reserve			
	Operation & Maintenance	EBDA Capacity	2011 Debt Service	Joint-use Replacement	Dual-use Replacement	Sole-use Replacement	Total
OPERATING REVENUES							
Service charges - DSRSD	$ 511,038	$ -	$ 2,494,937	$ 69,900	$ -	$ -	$ 3,075,874
Service charges - City of Pleasanton	615,363	-	2,134,361	69,900	-	-	2,819,624
Service charges - City of Livermore	546,300	-	1,785,064	60,200	-	-	2,391,564
Total operating revenues	1,672,701		6,414,362	200,000	-	-	8,287,063
OPERATING EXPENSES							
Power	155,854	-	-	-	-	-	155,854
LAVWMA share of EBDA O&M - Fixed	160,265	-	-	-	-	-	160,265 (1)
LAVWMA share of EBDA O&M - Variable	35,675	-	-	-	-	-	35,675 (1)
Operations agreement	260,844	-	-	69,146	-	-	329,990
Professional services	133,037	-	-	-	-	-	133,037 (1)
Livermore sole use O&M	8,314	-	-	-	-	-	8,314
Miscellaneous	160	-	144	1,214	33	120	1,671
Total operating expenses	754,149	-	144	70,360	33	120	824,806
Capital outlay				-			-
Total operating expenses and capital outlay	754,149	-	144	70,360	33	120	824,806
Operating income (loss)	918,552	-	6,414,218	129,640	(33)	(120)	7,462,257
NON-OPERATING REVENUES (EXPENSES)							
Amortization/Depreciation	-	-	-	-	-	-	-
Bond interest expense	-	-	(6,414,363)	-	-	-	(6,414,363)
Other Income	-	-	-	-	-	-	-
Interest income	127	-	187	979	26	97	1,417
Total non-operating revenues (expenses)	127	-	(6,414,176)	979	26	97	(6,412,945)
Changes in net assets	918,679		41	130,619	(6)	(23)	1,049,312
NET ASSETS							
Net assets, beginning of period	494,712	3,030,305	(80,093,964)	116,935,183	496,730	5,208,465	46,071,431
Prior Period adjustment							
Net assets, beginning of period restated	494,712	3,030,305	(80,093,964)	116,935,183	496,730	5,208,465	46,071,431
Net asset transfers							
Net assets, end of period	$ 1,413,391	$ 3,030,305	$ (80,093,923)	$ 117,065,802	$ 496,724	$ 5,208,442	$ 47,120,743

(1) Total of the noted expenses is $328,977.15. Details see General Management Expenses Listing.

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
SCHEDULE OF SUB FUND ACCOUNT BALANCE SHEETS
July 2020 through September 2020

				Repair and Replacement Reserve			
	Operation & Maintenance	EBDA Capacity	2011 Debt Service	Joint-use Replacement	Dual-use Replacement	Sole-use Replacement	Total
ASSETS							
Cash and equivalents	$ 1,777,221	$ -	$ 26,848	$ 723,457	$ 12,119	$ 9,153	$ 2,548,797
Investments	484,499	-	30,149	15,658,381	429,993	1,608,923	18,211,945
Investments (LAIF FMV Adj)	5,201	-	12,744	63,294	1,692	6,215	89,146
Interest receivable	-	-	-	-	-	-	-
Due from members	293,707	-	-	-	-	-	293,707
Advances to members	(317,178)	-	-	317,178	-	-	-
Capital Assets, net of accumulated depreciation	-	3,030,305	-	100,372,962	52,920	3,584,152	107,040,339
Total assets	2,243,450	3,030,305	69,741	117,135,272	496,724	5,208,442	128,183,934
LIABILITIES							
Accounts payable	753,666	-	-	69,469	-	-	823,135
Due To Members	76,395	-	-	-	-	-	76,395
Interest payable	-	-	1,424,469	-	-	-	1,424,469
Long-term debt	-	-	-	-	-	-	-
Bond issuance premium, net of amortization	-	-	4,674,193	-	-	-	4,674,193
Due within one year	-	-	4,705,000	-	-	-	4,705,000
Due in more than one year	-	-	69,360,000	-	-	-	69,360,000
Total liabilities	830,061	-	80,163,662	69,469	-	-	81,063,191
NET ASSETS							
Invested in capital assets, net of related debt	-	3,030,305	(78,739,193)	100,372,962	52,920	3,584,152	28,301,146
Unrestricted net assets	1,413,391	-	(1,354,730)	16,692,840	443,804	1,624,290	18,819,596
Total net assets	$ 1,413,391	$3,030,305	$ (80,093,923)	$ 117,065,802	$ 496,724	$5,208,442	$47,120,743

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
Operations and Maintenance - Budget vs Actual
July - September, 2019 & July - September, 2020

	FYE 2020 Budget	FYE 2020 Actual	Variance		FYE 2021 Budget	FYE 2021 Actual		Variance
OPERATING REVENUES								
Service charges - DSRSD	$ 935,992	$ 467,996	$ (467,996)		$ 1,022,075	$ 511,038		$ (511,037)
Service charges - City of Pleasanton	1,137,742	568,871	(568,871)		1,230,725	615,363		(615,362)
Service charges - City of Livermore	1,012,266	506,133	(506,133)		1,092,599	546,300		(546,301)
Total operating revenues	3,086,000	1,543,000	(1,543,000)		3,345,400	1,672,701		(1,672,699)
OPERATING EXPENSES								
Power	1,200,000	186,818	(1,013,182)		1,250,000	155,854		(1,094,146)
LAVWMA share of EBDA O&M - Fixed	505,000	140,169	(364,831)		523,000	160,265	(1)	(362,735)
LAVWMA share of EBDA O&M - Variable	145,000	36,134	(108,866)		141,000	35,675	(1)	(105,325)
Operations agreement	921,000	228,707	(692,293)		938,000	260,844		(677,156)
Professional services	242,000	38,606	(203,394)		405,500	77,529	(1)	(327,971)
Livermore sole use O&M	25,000	12,064	(12,936)		25,000	8,314		(16,686)
Insurance	40,500	-	(40,500)		55,508	55,508	(1)	-
Permits	7,500	-	(7,500)		7,392	-		(7,392)
Miscellaneous	-	123	123		-	160		160
Total operating expenses	3,086,000	642,621	(2,443,379)		3,345,400	754,149		(2,591,251)
Capital outlay			-					-
Total operating expenses and capital outlay	3,086,000	642,621	(2,443,379)		3,345,400	754,149		(2,591,251)
Operating income (loss)	-	900,379	900,379		-	918,552		918,552
NON-OPERATING REVENUES (EXPENSES)								
Amortization/Depreciation	-	-	-		-	-		-
EBDA Debt	-	-	-		-	-		-
Interest income	-	139	139		-	127		127
Total non-operating revenues (expenses)	-	139	139		-	127		127
Net Income	$ -	$ 900,518	$ 900,518		$ -	$ 918,679		$ 918,679

(1) Total of the noted expenses is $328,977.15. Details see General Management Expenses Listing.

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
Treasurer's Report
Portfolio Summary
September 30, 2020

Investments	Par Value	Market Value	Book Value	% of Portfolio	Avg. Term	Avg. Days to Maturity	YTM
LAIF- Operating	$ 18,211,945	$ 18,211,945	$ 18,211,945	100.00	1	1	0.84%
	$ 18,211,945	**$ 18,211,945**	**$ 18,211,945**	**100.00**	**1**	**1**	**0.84%**

Average Daily Balance	$ 18,211,945
Effective Rate of Return	**0.84%**

I certify that this report reflects all Government Agency pooled investments and is in conformity with the investment policy of Livermore-Amador Valley Water Management Agency.

The investment program herein shown provides sufficient cash flow liquidity to meet the next six month's expenses.

Original Signed by Carol Attwood — 11/12/2020
Carol Atwood, Treasurer — Date

Livermore-Amador Valley Water Management Agency
General Management Expenses Listing
July - September, 2020

Invoice Date	Vendor Name	Invoice#	Description	Check#	Date Paid	Total Amount
5/12/2020	SDRMA	68047	MEMBER #7119 PROPERTY/LIABILITY PROGRAM 2020-21	104675	6/25/2020	$55,508.21
7/1/2020	EAST BAY DISCHARGERS AUTHORITY	3210	O&M ASSESSMENT - JULY 1, 2020 - 1ST QTR	104863	7/23/2020	$195,939.71
7/10/2020	BARRETT BUSINESS SERVICES INC.	3153884	S. MONTAGUE: W/E 07/05/20	104941	7/30/2020	$234.00
7/17/2020	BARRETT BUSINESS SERVICES INC.	3154654	S. MONTAGUE: W/E 07/12/20	105009	8/6/2020	$117.00
7/24/2020	BARRETT BUSINESS SERVICES INC.	3155011	S. MONTAGUE: W/E 07/19/20	105060	8/13/2020	$312.00
7/31/2020	JARVIS, FAY & GIBSON, LLP	14411	GENERAL COUNSEL SVCS - JULY 2020	105316	9/3/2020	$4,214.00
7/31/2020	RECORDS CONTROL SERVICES	20-22	LAVWMA: RECORDS IMPROVEMENT PROJECT - JULY 2020	105157	8/20/2020	$4,651.20
7/31/2020	BARRETT BUSINESS SERVICES INC.	3155762	S. MONTAGUE: W/E 07/26/20	105171	8/20/2020	$312.00
8/1/2020	COMPUTER COURAGE INC.	45549	LAVWMA WEBSITE UPGRADE - JULY 2020	105216	8/27/2020	$112.05
8/3/2020	WEIR TECHNICAL SERVICES	LAVWMA_0720	MANAGEMENT SERVICES - JULY 2020	105193	8/27/2020	$13,662.04
8/7/2020	BARRETT BUSINESS SERVICES INC.	3156160	S. MONTAGUE: W/E 08/02/20	105182	8/27/2020	$507.00
8/14/2020	BARRETT BUSINESS SERVICES INC.	3156799	S. MONTAGUE: W/E 08/09/20	105287	9/3/2020	$721.50
8/21/2020	BARRETT BUSINESS SERVICES INC.	3157366	S. MONTAGUE: W/E 08/16/20	105349	9/10/2020	$819.00
8/27/2020	RECORDS CONTROL SERVICES	20-25	LAVWMA: RECORDS IMPROVEMENT PROJECT - AUG. 2020	105438	9/17/2020	$4,661.60
8/28/2020	BARRETT BUSINESS SERVICES INC.	3157860	S. MONTAGUE: W/E 08/23/20	105389	9/17/2020	$351.00
8/31/2020	JARVIS, FAY & GIBSON, LLP	14499	GENERAL COUNSEL SVCS - AUG. 2020	105485	9/24/2020	$23,558.50
9/1/2020	WEIR TECHNICAL SERVICES	LAVWMA_0820	MANAGEMENT SERVICES - AUG. 2020	105456	9/24/2020	$15,433.02
9/17/2020	RECORDS CONTROL SERVICES	20-29	LAVWMA: RECORDS IMPROVEMENT PROJECT - SEPT. 2020	105612	10/8/2020	$4,688.00
						$325,801.83

Expenses from journal entry and payroll:

Postage	$0.00
DSRSD Board Members	$0.00
Admin Support	$53.83
Accounting	$3,121.49
	$3,175.32

TOTAL: **$ 328,977.15**

Agenda Explanation
Livermore-Amador Valley
Water Management Agency
Board of Directors
November 18, 2020

ITEM NO. 8 ACCEPTANCE OF AUDIT REPORT FOR FISCAL YEAR ENDING JUNE 30, 2020

Action Requested
Accept the Audit Report for the Fiscal Year ending June 30, 2020 as prepared by Maze & Associates.

To: LAVWMA Board of Directors

From: Carol Atwood, LAVWMA Treasurer

Subject: Audit Report for Fiscal Year Ending June 30, 2020

Summary
Maze & Associates prepared and submitted the FYE 2020 Audit consisting of the attached Basic Financial Statements. The Audit also includes the Memorandum on Internal Control and Required Communications (MOIC). The MOIC is intended for the sole use of management and the Board of Directors. Therefore, the MOIC will be distributed to the Board at the meeting. The MOIC concluded that there were no observations or recommendations in this year's audit requiring action by LAVWMA.

A representative from Maze & Associates will attend the meeting to answer any questions from the Board.

Recommendation
It is recommended the Board accept the Audit Report for the Fiscal Year ending June 30, 2020 as prepared by Maze & Associates.

Attachments
Livermore-Amador Valley Water Management Agency Basic Financial Statements for the Year Ended June 30, 2020.

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

BASIC FINANCIAL STATEMENTS

FOR THE YEARS ENDED JUNE 30, 2020 AND 2019

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LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
BASIC FINANCIAL STATEMENTS
For the Years Ended June 30, 2020 and 2019

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MAZE & ASSOCIATES

INDEPENDENT AUDITOR'S REPORT

Board of Directors
Livermore-Amador Valley Water Management Agency
Dublin, California

We have audited the accompanying financial statements of the Livermore-Amador Valley Water Management Agency (Agency), California, as of and for the years ended June 30, 2020 and 2019, and the related notes to the financial statements, which collectively comprise the Agency's basic financial statements as listed in the Table of Contents.

Management's Responsibility for the Financial Statements

Management is responsible for the preparation and fair presentation of these financial statements in accordance with accounting principles generally accepted in the United States of America; this includes the design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of the financial statements that are free from material misstatement, whether due to fraud or error.

Auditor's Responsibility

Our responsibility is to express an opinion on these financial statements based on our audit. We conducted our audit in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free from material misstatement.

An audit involves performing procedures to obtain audit evidence about the amounts and disclosures in the financial statements. The procedures selected depend on the auditor's judgment, including the assessment of the risks of material misstatement of the financial statements, whether due to fraud or error. In making those risk assessments, the auditor considers internal control relevant to the Agency's preparation and fair presentation of the financial statements in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the Agency's internal control. Accordingly, we express no such opinion. An audit also includes evaluating the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management, as well as evaluating the overall presentation of the financial statements.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our audit opinion.

Opinion

In our opinion, the financial statements referred to above present fairly, in all material respects, the financial position of the Agency as of June 30, 2020 and 2019, and changes in financial position and cash flows for the years then ended in accordance with accounting principles generally accepted in the United States of America.

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Other Matters

Required Supplementary Information

Accounting principles generally accepted in the United States of America require that Management's Discussion and Analysis be presented to supplement the basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board, who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic or historical context. We have applied certain limited procedures to the required supplementary information in accordance with auditing standards generally accepted in the United States of America, which consisted of inquiries of management about the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We do not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

Other Information

Our audit was conducted for the purpose of forming opinions on the financial statements that collectively comprise the Agency's basic financial statements. The Introductory Section and Supplemental Information are presented for purposes of additional analysis and are not a required part of the basic financial statements.

The Supplemental Information is the responsibility of management and was derived from and relates directly to the underlying accounting and other records used to prepare the basic financial statements. Such information has been subjected to the auditing procedures applied in the audit of the basic financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the basic financial statements or to the basic financial statements themselves, and other additional procedures in accordance with auditing standards generally accepted in the United States of America. In our opinion, the Supplemental Information is fairly stated, in all material respects, in relation to the basic financial statements as a whole.

Maze + Associates

Pleasant Hill, California
October 29, 2020

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

Management's Discussion & Analysis

June 30, 2020 and 2019

This section presents management's analysis of the Livermore-Amador Valley Water Management Agency (the Agency) financial condition and activities as of and for the years ended June 30, 2020 and 2019. Management's Discussion and Analysis (MDA) is intended to serve as an introduction to the Agency's basic financial statements. The MDA represents management's examination and analysis of the Agency's financial condition and performance.

This information should be read in conjunction with the audited financial statements that follow this section. The information in the MDA is presented under the following headings:

- Organization and Business
- Overview of the Financial Statements
- Financial Analysis
- Request for Information

Organization and Business

Livermore-Amador Valley Water Management Agency (the Agency) is a joint powers agency that was formed in 1974 by a joint exercise of powers agreement between the cities of Pleasanton and Livermore and the Dublin San Ramon Services District. The Agency has implemented a water quality management program involving wastewater disposal. The Agency operates an export pump station and pipeline connecting with the East Bay Dischargers Authority's system and discharges treated wastewater, through a deep-water outfall, into San Francisco Bay. The Agency currently has an Amended and Restated Joint Exercise of Powers Agreement dated September 10, 1997, among the members. This agreement, among other things, sets forth capacity limitations and capacity rights of each member as well as cost-sharing procedures for debt service and fixed operating costs related to capacity rights and variable operating costs related to actual use of the export facilities.

For additional information, please see the notes to the basic financial statements.

Overview of the Financial Statements

The basic financial statements include a *statement of net position, a statement of revenues, expenses, and changes in net position, a statement of cash flows,* and *notes to financial statements.* The report also contains other required supplementary information in addition to the basic financial statements.

The Agency's basic financial statements include:

The *statement of net position* presents information on the Agency's assets and liabilities, with the difference between the two reported as net position. It provides information about the nature and amount of resources and obligations at year-end.

The *statement of revenues, expenses, and changes in net position* presents the results of the Agency's operations over the course of the fiscal year and information as to how the *net position* changed during the year.

The *statement of cash flows* presents changes in cash and cash equivalents resulting from operational, capital and related financing, and investing activities. This statement summarizes the annual flow of cash receipts and cash payments, without consideration of the timing of the event giving rise to the obligation or receipt.

The *notes to basic financial statements* provide additional information that is essential to a full understanding of the data provided in the basic financial statements. The notes to basic financial statements can be found on pages 9 to 19 of this report.

Financial Analysis:

Table 1 summarizes net position at June 30, 2020 and 2019, and Table 2 summarizes revenues, expenses and changes in net position for the years ended June 30, 2020 and 2019. Both tables also include variances from the prior year.

Table 1

Summary of Net Position

June 30, 2020 and 2019

	2020	2019	Variance	2018	Variance
Assets:					
Current assets	$28,197,985	$18,660,220	$ 9,537,765	$21,221,982	$(2,561,762)
Non-current assets	-	345,178	(345,178)	345,178	-
Capital assets, net of accumulated depreciation	107,040,339	110,204,567	(3,164,228)	113,274,221	(3,069,654)
Total assets	135,238,324	129,209,965	6,028,359	134,841,381	(5,631,416)
Liabilities:					
Current liabilities	15,132,701	6,378,730	8,753,971	9,693,923	(3,315,193)
Long-term debt outstanding	74,034,193	79,154,677	(5,120,484)	88,138,721	(8,984,044)
Total Liabilities	89,166,894	85,533,407	3,633,487	97,832,644	(12,299,237)
Net position:					
Invested in capital assets, net of related debt	32,481,873	31,391,513	1,090,360	26,105,620	5,285,893
Unrestricted	13,589,557	12,285,045	1,304,512	10,903,117	1,381,928
Total net position	$46,071,430	$43,676,558	$ 2,394,872	$37,008,737	$ 6,667,821

- The total assets of the Agency increased $6.0 million in 2020 from 2019, which had decreased $5.6 million from 2018. The increase in current assets of $9.5 million is primarily in cash and investments due to two JPA members paying their contribution for FYE 2021 in advance; this is offset by an increase in current liabilities. The increase in current assets is offset by $3.2 million decrease in capital assets primarily due to depreciation (Note 3).
- Total liabilities increased $3.6 million in 2020 from 2019, which had decreased $12.3 million from 2018. The increase in current liabilities of $8.8 million is primarily due to two JPA members paying their contribution for FYE 2021 in advance; this is offset by an increase in current assets. The increase in current liabilities is offset by $5.1 million decrease in Long-term liabilities, which is due to debt payments and amortization of bond issuance premium (Note 5).
- Net position overall has increased the last two years as debt is being paid down.

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

Management's Discussion & Analysis

June 30, 2020 and 2019

Table 2

Summary of Revenues, Expenses and Changes in Net Position

Years ended June 30, 2020 and 2019

	2020	2019	Variance	2018	Variance
Operating revenues:	$11,708,912	$16,070,959	$(4,362,047)	$11,613,795	$ 4,457,164
Operating expenses:	6,730,537	6,653,044	77,493	6,268,924	384,120
Net operating income (expenses)	4,978,375	9,417,915	(4,439,540)	5,344,871	4,073,044
Non operating revenues (expenses)	(2,583,503)	(2,750,094)	166,591	(3,352,198)	602,104
Change in net position	$ 2,394,872	$ 6,667,821	$(4,272,949)	$ 1,992,673	$ 4,675,148

- Operating revenues come from member agency contributions to cover operating costs, debt, and capital replacement. FYE 2020 operating revenue decreased $4.4 million comparing to 2019 due to a one-time capacity purchase pay off with East Bay Dischargers Authority (EBDA) in the prior fiscal year.
- Operating expenses increased $0.1 million in FYE 2020 compared to an increase of $0.4 million in the prior fiscal year. FYE 2020 includes costs related to EBDA pension and other post-employment benefits. Energy is over one third of the operating budget, when depreciation is excluded from total operating expenses.
- Non-operating revenues (expenses) reflect a net decrease in non-operating expenses over the last two years primarily due to the decrease in bond interest expense as debt is paid down.

Request for Information

This financial report is designed to provide readers with a general overview of the Livermore-Amador Valley Water Management Agency's finances and demonstrate the Agency's accountability for the monies it manages. If you have any questions about this report or need additional information, please contact: LAVWMA Agency Treasurer, 7051 Dublin Blvd., Dublin, CA 94568.

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
STATEMENTS OF NET POSITION
JUNE 30, 2020 AND 2019

	2020	2019
ASSETS		
Current assets:		
Cash and cash equivalents (Note 2B)	$27,570,553	$18,271,033
Interest receivable	-	113,287
Due From members (Note 4)	627,432	275,900
Total current assets	28,197,985	18,660,220
Non-current assets:		
Advances to DSRSD	-	345,178
Capital assets (Note 3):		
Construction in progress	493,466	273,054
Depreciable, net of accumulated depreciation	106,546,873	109,931,513
Total non-current assets	107,040,339	110,549,745
Total assets	135,238,324	129,209,965
LIABILITIES		
Current liabilities:		
Accounts payable	639,774	386,032
Due to members (Note 4)	76,395	-
Advances from members	8,287,063	-
Interest payable	1,424,469	1,517,698
Current portion of long-term debt (Note 5)	4,705,000	4,475,000
Total current liabilities	15,132,701	6,378,730
Long-term liabilities:		
Bond issuance premium, net of amortization (Note 5)	4,674,193	5,089,677
Long-term debt less current portion (Note 5)	69,360,000	74,065,000
Total long-term liabilities	74,034,193	79,154,677
Total liabilities	89,166,894	85,533,407
NET POSITION (Note 7)		
Net investment in capital assets	32,481,873	31,391,513
Unrestricted	13,589,557	12,285,045
Total net position	$46,071,430	$43,676,558

The accompanying notes are an integral part of these financial statements

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
STATEMENTS OF REVENUES, EXPENSES
AND CHANGES IN NET POSITION
FOR THE YEARS ENDED JUNE 30, 2020 AND 2019

	2020	2019
Operating revenues:		
Service charges (Note 4)	$11,491,600	$11,290,250
Service charges - other (Note 4)	217,312	275,900
EBDA capacity	-	4,504,809
Total operating revenues	11,708,912	16,070,959
Operating expenses:		
Energy	1,275,977	1,362,311
EBDA O&M costs	840,921	586,338
Operations agreement	891,686	902,460
Professional services	255,401	201,869
Livermore sole use O&M	46,139	48,137
Miscellaneous	35,773	96,887
Repairs and maintenance	-	74,186
Depreciation and amortization	3,384,640	3,380,856
Total operating expenses	6,730,537	6,653,044
Operating income	4,978,375	9,417,915
Non-operating revenues (expenses)		
Interest income	438,384	494,626
Bond interest expense	(3,021,887)	(3,244,720)
Total non-operating revenues (expenses)	(2,583,503)	(2,750,094)
Change in net position	2,394,872	6,667,821
Net position, beginning of year	43,676,558	37,008,737
Net position, end of year	$46,071,430	$43,676,558

The accompanying notes are an integral part of these financial statements

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
STATEMENTS OF CASH FLOWS
FOR THE YEARS ENDED JUNE 30, 2020 AND 2019

	2020	2019
Cash flows from operating activities:		
Receipts from member contributions	$20,102,908	$12,690,470
Payments to suppliers	(3,015,760)	(3,233,928)
Net cash provided (used) by operating activities	17,087,148	9,456,542
Cash flows from capital and related financing activities:		
Acquisition of capital assets	(220,412)	(311,202)
Principal paid on long-term debt	(4,475,000)	(8,628,601)
Interest paid on long-term debt	(3,530,600)	(3,880,057)
Net cash provided (used) by capital and related financing activities	(8,226,012)	(12,819,860)
Cash flows from investing activities:		
Interest on cash and investments	438,384	494,626
Net cash provided (used) by investing activities	438,384	494,626
Net increase (decrease) in cash and cash equivalents	9,299,520	(2,868,692)
Cash and cash equivalents - beginning of period	18,271,033	21,139,725
Cash and cash equivalents - end of period	$27,570,553	$18,271,033
Reconciliation of operating income to net cash provided (used) in operating activities:		
Operating income	$4,978,375	$9,417,915
Adjustments to reconcile operating income to cash flows from operating activities:		
Depreciation and amortization	3,384,640	3,380,856
Changes in certain assets and liabilities:		
(Increase) in due from members	(351,532)	(275,900)
(Decrease) in advance to members	345,178	-
(Increase) in interest receivable	113,287	(31,030)
Increase in accounts payable	253,742	189,490
(Decrease) increase in due to members	76,395	(151,230)
(Decrease) increase in advance from members	8,287,063	(3,073,559)
Net cash provided (used) by operating activities	$17,087,148	$9,456,542

The accompanying notes are an integral part of these financial statements

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
NOTES TO BASIC FINANCIAL STATEMENTS
FOR THE YEARS ENDED JUNE 30, 2020 AND 2019

NOTE 1 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES

A. General

Livermore-Amador Valley Water Management Agency (the Agency) is a joint powers agency that was formed in 1974 by a joint exercise of powers agreement between the cities of Pleasanton and Livermore and the Dublin-San Ramon Services District. The Agency has implemented a water quality management program involving wastewater disposal. The Agency operates an export pipeline connecting with the East Bay Dischargers Authority's (EBDA) system and discharges treated wastewater, through a deep-water outfall, into San Francisco Bay. The Agency currently has an Amended and Restated Joint Exercise of Powers Agreement dated September 10, 1997, among the members. This agreement, among other things, sets forth capacity limitations and capacity rights of each member as well as cost-sharing procedures for debt service and fixed operating costs related to capacity rights and variable operating costs related to actual use of the export facilities. This agreement has been extended through December 31, 2020. The Agency is in the process of renegotiating a new agreement with EBDA.

B. Reporting Entity

The Agency is the only entity included in these financial statements.

C. Fund Accounting

The accounts of the Agency are organized on the basis of funds, each of which is considered a separate accounting entity. The Agency maintains a proprietary fund that is used to account for the financing of goods or services provided by the Agency to other governments on a cost-reimbursement basis.

The Agency is a proprietary entity; it uses an enterprise fund format to report its activities for financial statement purposes. Enterprise funds are used to account for operations that are financed and operated in a manner similar to private business enterprises, where the intent of the governing body is that the costs and expenses, including depreciation, of providing goods or services to the general public on a continuing basis be financed or recovered primarily through user charges.

An enterprise fund is used to account for activities similar to those in the private sector, where the proper matching of revenues and costs is important and the full accrual basis of accounting is required. With this measurement focus, all assets and all liabilities of the enterprise are recorded in its balance sheet, all revenues are recognized when earned and all expenses, including depreciation, are recognized when incurred.

D. Basis of Accounting

Records of the Agency are maintained on the accrual basis. Revenues are recognized when earned and expenses are recognized when incurred.

Operating revenues, such as charges for services, result from exchange transactions associated with the principal activity of the fund. Exchange transactions are those in which each party receives and gives up essentially equal values. Non-exchange transactions, in which the Agency gives or receives value without directly receiving or giving equal value in exchange, include member contributions.

Revenue from member contributions is recognized in the fiscal year in which it is earned. Nonoperating revenues, such as interest income, result from nonexchange transactions or ancillary activities.

NOTE 1 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

E. Use of Estimates

The basic financial statements have been prepared in conformity with U.S. generally accepted accounting principles, and as such, include amounts based on informed estimates and judgments of management with consideration given to materiality. Actual results could differ from those estimates.

F. Cash and Cash Equivalents

The Agency places certain funds with the State of California's Local Agency Investment Fund (LAIF). The Agency is a voluntary participant in LAIF, which is regulated by California Government Code Section 16429 under the oversight of the Treasurer of the State of California and the Pooled Money Investment Board. The State Treasurer's office pools these funds with those of other governmental agencies in the state and invests the cash. The fair value of the Agency's investment in this pool is reported in the accompanying financial statements based upon the Agency's pro-rata share of the fair value provided by LAIF for the entire LAIF portfolio (in relation to the amortized cost of that portfolio).

The monies held in the pooled investment funds are not subject to categorization by risk category. The balance available for withdrawal is based on the accounting records maintained by LAIF, which are recorded on the amortized cost basis. Funds are accessible and transferable to the master account with twenty-four hours' notice. Financial statements for LAIF can be obtained from the California State Treasurer's Office: State Treasurer's Office, 915 Capitol Mall, Suite 110, Sacramento, CA 95814.

Cash and investments are used in preparing the statement of cash flows because these assets are highly liquid and are expended to liquidate liabilities arising during the year.

G. Capital Assets

Capital assets are recorded at cost. Assets with an initial cost of more than $10,000 and an estimated useful life greater than three years are capitalized. Infrastructure assets with an initial cost of more than $25,000 are capitalized. Depreciation of property and equipment is provided on the straight-line method over the following useful lives:

Pipeline and Export Facility	20-50 years
Pump Station	10-25 years
Intangible	33 years
Equipment	3-25 years

H. Bond Issuance Premium

Bond issuance premium is amortized on a straight-line basis over the term of the bond.

NOTE 1 – SUMMARY OF SIGNIFICANT ACCOUNTING POLICIES (Continued)

I. Fair Value Measurements

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. The Agency categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The fair value hierarchy categorizes the inputs to valuation techniques used to measure fair value into three levels based on the extent to which inputs used in measuring fair value are observable in the market.

Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities.

Level 2 inputs are inputs - other than quoted prices included within level 1 - that are observable for an asset or liability, either directly or indirectly.

Level 3 inputs are unobservable inputs for an asset or liability.

If the fair value of an asset or liability is measured using inputs from more than one level of the fair value hierarchy, the measurement is considered to be based on the lowest priority level input that is significant to the entire measurement.

NOTE 2 – CASH AND INVESTMENTS

A. Policies

California Law generally requires banks and savings and loan institutions to pledge government securities with a market value of 110% of the Agency's cash on deposit or first trust deed mortgage notes with a value of 150% of the deposit as collateral for these deposits. Under California Law this collateral is held in a separate investment pool by another institution in the Agency's name and places the Agency ahead of general creditors of the institution. The Agency has waived collateral requirements for the portion of deposits covered by federal depository insurance. As of June 30, 2020 and 2019, the Agency's cash in bank was insured or collateralized as discussed above.

Cash and investments are recorded at market value.

B. Composition

Cash and cash equivalents consist of the following as of June 30:

	2020	2019
Cash in Bank	$9,268,921	$512,133
California Local Agency Investment Fund	18,301,632	17,758,900
Total cash and cash equivalents	$27,570,553	$18,271,033

NOTE 2 – CASH AND INVESTMENTS (Continued)

C. Investments Authorized by the California Government Code and the Agency's Investment Policy

The Agency's Investment Policy and the California Government Code allow the Agency to invest in the following provided the credit ratings of the issuers are acceptable to the Agency; and approved percentages and maturities are not exceeded. The table below also identifies certain provisions of the California Government Code, or the Agency's Investment Policy where the Agency's Investment Policy is more restrictive.

Limit	Minimum Rating	Maximum Maturity	Authorized Investment
None	None	5 years	Collateralized Certificate of Deposits purchased from banks or savings and loan institutions as authorized by statute
30%	None	5 years	Negotiable Certificates of Deposit
None	None	5 years	U.S. Treasury Bills, Notes, and Bonds
None	None	5 years	Securities of Government Agencies (e.g., Federal Home Loan Bank, Federal National Mortgage Association, Federal Home Loan Mortgage Corporation, Student Loan Marketing Association, Government National Mortgage Association, Federal Farm Credit Bank, Tennessee Valley Authority)
30%	A	5 years	Medium-Term Corporate Notes
20%	None	N/A	Mutual Funds (Shares of beneficial interest issued by diversified management companies who invest in securities authorized by § 53601)
None	None	5 years	Indebtedness issued by LAVWMA or any local agency in California
Maximum allowed by LAIF	None	N/A	The State of California Local Agency Investment Fund
Maximum allowed by CAMP	None	N/A	The California Asset Management Program

D. Local Agency Investment Fund

The Agency is a voluntary participant in the Local Agency Investment Fund (LAIF) that is regulated by California Government Code Section 16429 under the oversight of the Treasurer of the State of California. The Agency reports its investment in LAIF at the fair value amount provided by LAIF, which is the same as the value of the pool share. The balance available for withdrawal is based on the accounting records maintained by LAIF, which are recorded on an amortized cost basis. Included in LAIF's investment portfolio are collateralized mortgage obligations, mortgage-backed securities, other asset-backed securities, loans to certain state funds, and floating rate securities issued by federal agencies, government-sponsored enterprises, United States Treasury Notes and Bills, and corporations. At June 30, 2020 and 2019, these investments matured in an average of 191 and 173 days, respectively.

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
NOTES TO BASIC FINANCIAL STATEMENTS
FOR THE YEARS ENDED JUNE 30, 2020 AND 2019

NOTE 2 – CASH AND INVESTMENTS (Continued)

E. Investment Valuation

The Agency categorizes its fair value measurements within the fair value hierarchy established by generally accepted accounting principles. The hierarchy is based on the valuation inputs used to measure fair value of the assets. Level 1 inputs are quoted prices in an active market for identical assets; Level 2 inputs are significant other observable inputs; and Level 3 inputs are significant unobservable inputs.

The Agency's only investment in the Local Agency Investment Fund is exempt from the fair value measurement hierarchy.

NOTE 3 – CAPITAL ASSETS

The following is a summary of changes in capital assets for the year ended June 30, 2020:

	Balance at June 30, 2018	Additions	Transfers	Balance at June 30, 2019	Additions	Transfers	Balance at June 30, 2020
Non-depreciable assets:							
Construction in progress	$ -	$311,202	($38,148)	$ 273,054	$220,412	$ -	$ 493,466
Total non-depreciable assets	-	311,202	(38,148)	273,054	220,412	-	493,466
Capital assets being depreciated:							
Pipeline	118,236,074	-	38,148	118,274,222	-	-	118,274,222
Pump station	18,900,060	-	-	18,900,060	-	-	18,900,060
Export facility	5,767,500	-	-	5,767,500	-	-	5,767,500
Intangibles	10,000,000	-	-	10,000,000	-	-	10,000,000
Total capital assets being depreciated/amortized:	152,903,634	-	38,148	152,941,782	-		152,941,782
Less:							
Accumulated depreciation	(33,265,779)	(3,077,826)	-	(36,343,605)	(3,081,610)	-	(39,425,215)
Accumulated amortization	(6,363,634)	(303,030)	-	(6,666,664)	(303,030)	-	(6,969,694)
Net capital assets being depreciated/amortized	113,274,221	(3,380,856)	38,148	109,931,513	(3,384,640)	-	106,546,873
Total capital assets, net	$113,274,221	($3,069,654)	$ -	$110,204,567	($3,164,228)	$ -	$107,040,339

Depreciation and amortization expense for the Agency for June 30, 2020 and June 30, 2019 was $3,384,640 and $3,380,856, respectively.

NOTE 4 – SERVICE CHARGES TO MEMBERS

Under the terms of the Agency's Sewer Service Contract with its members, the members pay the Agency a service charge equal to their share of the actual costs of operating the pipeline. The members are required to make advance payments to the Agency based on estimated costs. When advance payments are more or less than actual costs, differences are billed or refunded to the members in accordance with their participation percentage as specified in the agreement.

The following schedule reconciles the advance payments received from members with the actual costs of operating the pipeline to determine what is owed to or from the members as of June 30, 2020 and 2019:

	2020	2019
Advance payments received from members		
City of Livermore	$3,360,559	$3,295,436
City of Pleasanton	3,941,383	3,866,344
Dublin San Ramon Services District	4,189,658	4,128,470
EBDA Capacity Purchase Payoff	-	4,504,809
Total services charges	$11,491,600	$15,795,059
Advance payments received from members	$11,491,600	$15,795,059
Interest earned on operating advances	38,232	30,758
Less advances for:		
Debt service	(8,005,600)	(8,003,850)
Joint Use replacement	(400,000)	(400,000)
Net available for operations and maintenance	3,124,232	7,421,967
Operations and maintenance expenses:		
Power	1,275,977	1,362,311
LAVWMA share of EBDA O&M Costs	840,921	586,338
Operations agreement	891,686	902,460
EBDA capacity payment	-	4,504,809
Professional services	255,401	201,869
Livermore Sole Use O&M	46,139	48,137
Miscellaneous	31,420	91,943
Total operations and maintenance expenses	3,341,544	7,697,867
Amount due to (due from) members, net	($217,312)	($275,900)
Amount due to (due from):		
City of Livermore	($116,541)	($129,669)
City of Pleasanton	(177,166)	(79,932)
Dublin San Ramon Services District	76,395	(66,299)
	($217,312)	($275,900)

The Dublin San Ramon Services District refunded an operation deposit to the Agency in the amount of $333,724 on August 20, 2020. The deposit was recognized in fiscal year ending 2020 as due from members, which increased the amount to $627,432 at June 30, 2020.

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
NOTES TO BASIC FINANCIAL STATEMENTS
FOR THE YEARS ENDED JUNE 30, 2020 AND 2019

NOTE 5 – LONG-TERM DEBT

The following is a summary of changes in general long-term liabilities during the year ended June 30, 2020:

	Balance June 30, 2019	Retirements	Balance June 30, 2020	Amount due within one year	More than one year
Revenue Bonds					
2011 Sewer Revenue Refunding Bonds					
2% - 5%, due 8/1/2031	$78,540,000	$4,475,000	$74,065,000	$4,705,000	$69,360,000
Total Long-Term Debt	78,540,000	4,475,000	74,065,000	4,705,000	69,360,000
Plus: Unamortized bond premium	5,089,677	415,484	4,674,193	-	4,674,193
Total Long-Term Debt, net	$83,629,677	$4,890,484	$78,739,193	$4,705,000	$74,034,193

The following is a summary of changes in general long-term liabilities during the year ended June 30, 2019:

	Balance June 30, 2018	Retirements	Balance June 30, 2019	Amount due within one year	More than one year
Revenue Bonds					
2011 Sewer Revenue Refunding Bonds					
2% - 5%, due 8/1/2031	$82,795,000	$4,255,000	$78,540,000	$4,475,000	$74,065,000
Loans Payable					
EBDA Loan payable					
3%-6% , due 8/1/2030	4,373,601	4,373,601	-	-	-
Total Long-Term Debt	87,168,601	8,628,601	78,540,000	4,475,000	74,065,000
Plus: Unamortized bond premium	5,505,160	415,483	5,089,677	-	5,089,677
Total Long-Term Debt, net	$92,673,761	$9,044,084	$83,629,677	$4,475,000	$79,154,677

A. 2011 Sewer Revenue Refunding Bonds

The Agency issued $105,345,000 of 2011 Sewer Revenue Refunding Bonds on September 28, 2011. Proceeds of the issuance were used to refund and retire the Series A Sewer Revenue Bonds and to pay costs of issuance. Principal payments are due annually beginning August 1, 2012 through August 1, 2031.

Debt service on the 2011 Bonds is repayable from Agency Net Revenues which are defined as Gross Revenues less Maintenance and Operations costs, excluding in all cases depreciation, replacement and obsolescence charges or reserves therefore, debt service, amortization of intangibles or other book-keeping entries of a similar nature, and costs paid out of the Sole-Use, Dual-Use and Joint-Use Replacement Funds.

NOTE 5 – LONG-TERM DEBT (Continued)

Member Liens for Repayment of 2011 Bonds: Under an Amended And Restated Sewer Service Contract dated October 1, 2011, between the Agency and Members, the Members pledge and create, in favor of LAVWMA and the Trustee for the 2011 Bonds, a lien on the Net Revenues of their respective wastewater systems (the "Sewer Systems"), to pay to LAVWMA the amounts owed in order for LAVWMA to pay debt service on the 2011 Bonds. There are three important limitations with respect to this pledge of Net Revenues. First, this lien is subordinate to the Members' existing obligations payable from their Net Revenues, as well as obligations payable from their Net Revenues to be issued in the future by the Members to finance or refinance improvements to their respective Sewer System. Second, for DSRSD and Pleasanton, "Net Revenues" are not defined in the Sewer Service Contract to include all of the fees, rates and charges collected by DSRSD and Pleasanton in connection with their Sewer System; DSRSD and Pleasanton have only pledged regional service charges as security for their obligation to make the Payments. Third, Pleasanton, in its capacity as the largest customer of DSRSD's Sewer System, is only obligated to levy regional charges and fees established by DSRSD and to transfer the amount collected to DSRSD.

Pursuant to the official statement, each member agency is required to set rates to achieve coverage of 1.1 times debt service. Furthermore, the official statement contains events of default that require the net revenue of the Agency and Members to be applied by the Trustee as specified in the terms of the agreement if any of the following conditions occur: default on debt service payments; the failure of the Agency or Members to observe or perform the conditions, covenants, or agreement terms of the debt; bankruptcy filing by the Agency or Members; or if any court or competent jurisdiction shall assume custody or control of the Agency or Members.

B. Debt Service Maturity

At June 30, 2020, future annual repayment requirements for long-term debt were as follows:

For The Year Ending June 30	Principal	Interest	Total
2021	$4,705,000	$3,301,100	$8,006,100
2022	4,940,000	3,059,975	7,999,975
2023	5,195,000	2,806,600	8,001,600
2024	5,460,000	2,581,176	8,041,176
2025	5,660,000	2,344,125	8,004,125
2026-2030	32,750,000	7,319,356	40,069,356
2031-2032	15,355,000	693,818	16,048,818
Total payments due	$74,065,000	$22,106,150	$96,171,150

NOTE 6 – RISK MANAGEMENT

The Agency's insurance coverage is as follows:

The Agency is exposed to various risks of loss related to torts: theft, damage, and destruction of assets; errors and omissions; injuries to employees and natural disaster. The Agency joined together with other entities to form the Special District Risk Management Authority (SDRMA), a public entity risk pool currently operating as a common risk management and insurance program for member entities. The purpose of SDRMA is to spread the adverse effects of losses among the member entities and to purchase excess insurance as a group, thereby reducing its cost. The Agency pays annual premiums to SDRMA for its general, liability, and property damage.

SDRMA is governed by a Board composed of one representative from each member agency. The Board controls the operations of SDRMA including selection of management and approval of operating budgets, independent of any influence by member entities.

In addition to the primary insurance types provided for through SDRMA listed above, the Agency also maintains commercial fidelity bonds, public employee dishonesty and public official bonds to protect against employee theft or defalcation. Settled claims for SDRMA or commercial fidelity bonds have not exceeded coverage in any of the past three fiscal years.

The following is a summary of the insurance policies carried by the Agency as of June 30, 2020:

Company Name	Type of Coverage	Limits	Deductibles
Uninsured/underinsured motorists	Each occurrence	$1,000,000	None
Auto Liability	Comprehensive liability	5,000,000	1,000
Property coverage	Comprehensive liability	1,000,000,000	1,000
Employee dishonesty	Blanket bond	1,000,000	None
Personal liability coverage (board)	Comprehensive liability	500,000	None
General liability	Comprehensive liability	5,000,000	500
Public officials and employee errors	Comprehensive liability	5,000,000	None
Employment practices liability	Comprehensive liability	5,000,000	None
Employee benefits liability	Comprehensive liability	5,000,000	None
Boiler and machinery coverage	Comprehensive liability	100,000,000	1,000

Claims and judgments, including provision for claims incurred but not reported, are recorded when a loss is deemed probable of assertion and the amount of the loss is reasonably determinable. As discussed above, the Agency has coverage for such claims, but it had retained the risk for the deductible or uninsured portion of these claims.

The Agency's liability for uninsured claims is limited to general liability claims, as discussed above, and was estimated to be immaterial. The Agency has not exceeded its insurance coverage limits in any of the last three years.

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
NOTES TO BASIC FINANCIAL STATEMENTS
FOR THE YEARS ENDED JUNE 30, 2020 AND 2019

NOTE 7 – NET POSITION

Net Position is the excess of all the Agency's assets over all its liabilities. Net Position is divided into three categories which are described as follows:

- ***Net investment in capital assets*** describes the portion of net position that is represented by the current net book value of the Agency's capital assets, less the outstanding balance of any debt issued to finance these assets.
- ***Restricted*** describes the portion of net position that is restricted as to use by the terms and conditions of agreements with outside parties, governmental regulations, laws or other restrictions which the Agency cannot unilaterally alter. These principally include developer fees received for use on capital projects, debt service requirements, and redevelopment funds restricted to low and moderate income purposes. The Agency had no restricted net position.
- ***Unrestricted*** describes the portion of net position that is not restricted to use.

NOTE 8 – CONTINGENT LIABILITIES

The Agency is involved in various claims and litigation arising in the ordinary course of business. Agency management, based upon the opinion of legal counsel, is of the opinion that the ultimate resolution of such matters will not have a materially adverse effect on the Agency's financial position or results of operations.

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
NOTES TO BASIC FINANCIAL STATEMENTS
FOR THE YEARS ENDED JUNE 30, 2020 AND 2019

NOTE 9 – MEMBER EQUITY ALLOCATION

A review of the member equity calculation was conducted and each type of asset is allocated according to contractually agreed ownership shares. At June 30, 2020, the members' respective shares of the Agency's net position, based on this calculation, are as follows:

	Operation & Maintenance	EBDA Capacity	2011 Debt Service*	Joint-Use Replacement	Dual-Use Replacement	Sole-Use Replacement	TOTAL
Net Position:							
Total Assets	$2,718,036	$3,030,305	$6,484,060	$117,300,728	$496,730	$5,208,465	$135,238,324
Total Liabilities	2,223,324	-	86,578,025	365,545	-		89,166,894
	$494,712	**$3,030,305**	**($80,093,965)**	**$116,935,183**	**$496,730**	**$5,208,465**	**$46,071,430**
Allocation:							
Livermore	30.10%	18.18%	27.83%	30.10%	-	100.00%	
Pleasanton	34.95%	34.14%	33.27%	34.95%	50.00%	-	
DSRSD	34.95%	47.68%	38.90%	34.95%	50.00%	-	
Member Equity:							
Livermore	$148,909	$550,909	($22,289,492)	$35,197,491	$ -	$5,208,465	$18,816,282
Pleasanton	172,902	1,034,546	(26,651,046)	40,868,846	$248,365	-	15,673,613
DSRSD	172,902	1,444,849	(31,153,427)	40,868,846	248,365	-	11,581,535
	$494,713	**$3,030,304**	**($80,093,965)**	**$116,935,183**	**$496,730**	**$5,208,465**	**$46,071,430**

** Note that for debt service, blended allocations are shown above. Actual allocations are below:*

	Livermore	Pleasanton	DSRSD
Repair (30.46% of total debt)	39.95%	36.71%	23.34%
Expansion (69.54% of total debt)	22.52%	31.77%	45.71%

At June 30, 2019, the members' respective share of the Agency's net position, based on this calculation, is as follows:

	Operation & Maintenance	EBDA Capacity	2011 Debt Service*	Joint-Use Replacement	Dual-Use Replacement	Sole-Use Replacement	TOTAL
Net Position:							
Total Assets	$868,503	$3,333,335	$34,815	$119,039,210	$495,630	$5,438,472	$129,209,965
Total Liabilities	373,791	-	85,147,375	12,241	-	-	85,533,407
	$494,712	**$3,333,335**	**($85,112,560)**	**$119,026,969**	**$495,630**	**$5,438,472**	**$43,676,558**
Allocation:							
Livermore	30.10%	18.18%	27.83%	30.10%	-	100.00%	
Pleasanton	34.95%	34.14%	33.27%	34.95%	50.00%	-	
DSRSD	34.95%	47.68%	38.90%	34.95%	50.00%	-	
Member Equity:							
Livermore	$148,908	$606,000	($23,686,125)	$35,827,119	$ -	$5,438,472	$18,334,374
Pleasanton	172,902	1,138,001	(28,320,969)	41,599,926	247,815	-	14,837,675
DSRSD	172,902	1,589,334	(33,105,465)	41,599,926	247,815	-	10,504,512
	$494,712	**$3,333,335**	**($85,112,559)**	**$119,026,971**	**$495,630**	**$5,438,472**	**$43,676,561**

** Note that for debt service, blended allocations are shown above. Actual allocations are below:*

	Livermore	Pleasanton	DSRSD
Repair (30.46% of total debt)	39.95%	36.71%	23.34%
Expansion (69.54% of total debt)	22.52%	31.77%	45.71%

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SUPPLEMENTAL INFORMATION

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
SCHEDULE OF SUB FUND ACCOUNT BALANCE SHEETS
JUNE 30, 2020

	Maintenance & Operation	EBDA Capacity	2011 Debt Service
ASSETS			
Cash and equivalents	$1,918,082	$ -	$6,441,167
Investments	489,700	-	42,893
Interest receivable	-	-	-
Due from members	627,432	-	-
Advances to members	(317,178)	-	-
Capital assets, construction in progress	-	-	-
Capital assets, net of accumulated depreciation	-	3,030,305	-
Total assets	2,718,036	3,030,305	6,484,060
LIABILITIES			
Accounts payable	474,229	-	-
Due to members	76,395	-	-
Advances to members	1,672,700	-	6,414,363
Interest payable	-	-	1,424,469
Long-term debt:	-	-	-
Bond issuance premium, net of amortization	-	-	4,674,193
Due within one year	-	-	4,705,000
Due in more than one year	-	-	69,360,000
Total liabilities	2,223,324	-	86,578,025
NET POSITION			
Net investment in capital assets	-	3,030,305	(74,065,000)
Unrestricted	494,712	-	(6,028,965)
Total net position	$494,712	3,030,305	($80,093,965)

Repair and Replacement Reserve			
Joint-use Replacement	Dual-use Replacement	Sole-use Replacement	Total
$888,913	$12,125	$9,175	$9,269,462
15,721,675	431,685	1,615,138	18,301,091
-	-	-	-
-	-	-	627,432
317,178	-	-	-
493,466	-	-	493,466
99,879,496	52,920	3,584,152	106,546,873
117,300,728	496,730	5,208,465	135,238,324
165,545	-	-	639,774
-	-	-	76,395
200,000	-	-	8,287,063
-	-	-	1,424,469
-	-	-	-
-	-	-	-
-	-	-	4,674,193
-	-	-	4,705,000
-	-	-	69,360,000
365,545	-	-	89,166,894
100,372,962	52,920	3,584,152	32,975,339
16,562,221	443,810	1,624,313	13,096,091
$116,935,183	$496,730	$5,208,465	$46,071,430

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
SCHEDULE OF SUB FUND ACCOUNT ACTIVITY
For the Year Ended June 30, 2020

	Maintenance & Operation	EBDA Capacity	2011 Debt Service
Operating revenues:			
Service charges - City of Livermore	$1,012,266	$ -	$2,227,893
Service charges - City of Pleasanton	1,137,742	-	2,663,841
Service charges - Dublin San Ramon Services District	935,992	-	3,113,866
Service charges other	217,312	-	-
EBDA capacity purchase pay off	-	-	-
Total operating revenues	3,303,312		8,005,600
Operating expenses:			
Power	1,275,977	-	-
LAVWMA share of EBDA O&M	840,921	-	-
Operations agreement	891,686	-	-
Professional services	255,401	-	-
Livermore sole use O&M	46,139	-	-
Miscellaneous	31,420	-	98
Total operating expenses and capital outlay	3,341,544	-	98
Repairs and maintenance		-	-
Total operating expenses	3,341,544	-	98
Operating income (loss)	(38,232)	-	8,005,502
Non-operating revenues (expenses)			
Depreciation and amortization	-	(303,030)	-
Interest income	38,232	-	34,980
Bond interest expense	-	-	(3,021,887)
Transfers in	-	-	-
Transfers out	-	-	-
Total non-operating revenues (expenses)	38,232	(303,030)	(2,986,907)
Changes in net position		(303,030)	5,018,595
Net position beginning of period	$494,712	$3,333,335	($85,112,560)
Net position end of period	$494,712	$3,030,305	($80,093,965)

Repair and Replacement Reserve			
Joint-use Replacement	Dual-use Replacement	Sole-use Replacement	Total
$120,400	$ -	$ -	$3,360,559
139,800	-	-	3,941,383
139,800	-	-	4,189,658
-	-	-	217,312
-	-	-	-
400,000	-	-	11,708,912
-	-	-	1,275,977
-	-	-	840,921
-	-	-	891,686
-	-	-	255,401
-	-	-	46,139
3,778	102	375	35,773
3,778	102	375	3,345,897
-	-	-	-
3,778	102	375	3,345,897
396,222	(102)	(375)	8,363,015
(2,812,349)	(7,560)	(261,701)	(3,384,640)
324,341	8,762	32,069	438,384
-	-	-	(3,021,887)
-	-	-	-
-	-	-	-
(2,488,008)	1,202	(229,632)	(5,968,143)
(2,091,786)	1,100	(230,007)	2,394,872
$119,026,969	$495,630	$5,438,472	$43,676,558
$116,935,183	$496,730	$5,208,465	$46,071,430

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Agenda Explanation
Livermore-Amador Valley
Water Management Agency
Board of Directors
November 18, 2020

ITEM NO. 9 LAVWMA QUARTERLY REPORTS OF OPERATIONS, 1st QUARTER, FY 2020-2021

Action Requested
None at this time.

Summary
LAVWMA's Quarterly Report of Operations for the 1st Quarter, FY 2020-2021 is attached for the Board's review. These quarterly reports are prepared by DSRSD staff and summarize all LAVWMA operations and maintenance activity for each quarter. Jeff Carson, DSRSD Operations Manager, will be available to answer any questions from the Board. Please note that the report continues to be improved and now includes a Table of Contents, graphs for Quarter at a Glance, and an Executive Summary. The graphs show Flows and Pumping Efficiency, Energy Consumption, Budget Variance, and Work Order History. Per the Board's request, the Executive Summary includes a section for Items of Interest. Total expenses are running at 64.9% of the year to date budget. This season's rainfall has been less than normal.

Recommendation
None at this time. This is an information item only.

Attachment
LAVWMA's Quarterly Report of Operations for the 1st Quarter, FY2020-2021.

LAVWMA

QUARTERLY REPORT OF OPERATIONS 1st Quarter, FY 2020-2021

Dublin San Ramon Services District
Water, wastewater, recycled water

QUARTERLY REPORT OF OPERATIONS
LAVWMA PUMPING AND CONVEYANCE SYSTEM
1st Quarter FY 2020-2021: July to September 2020

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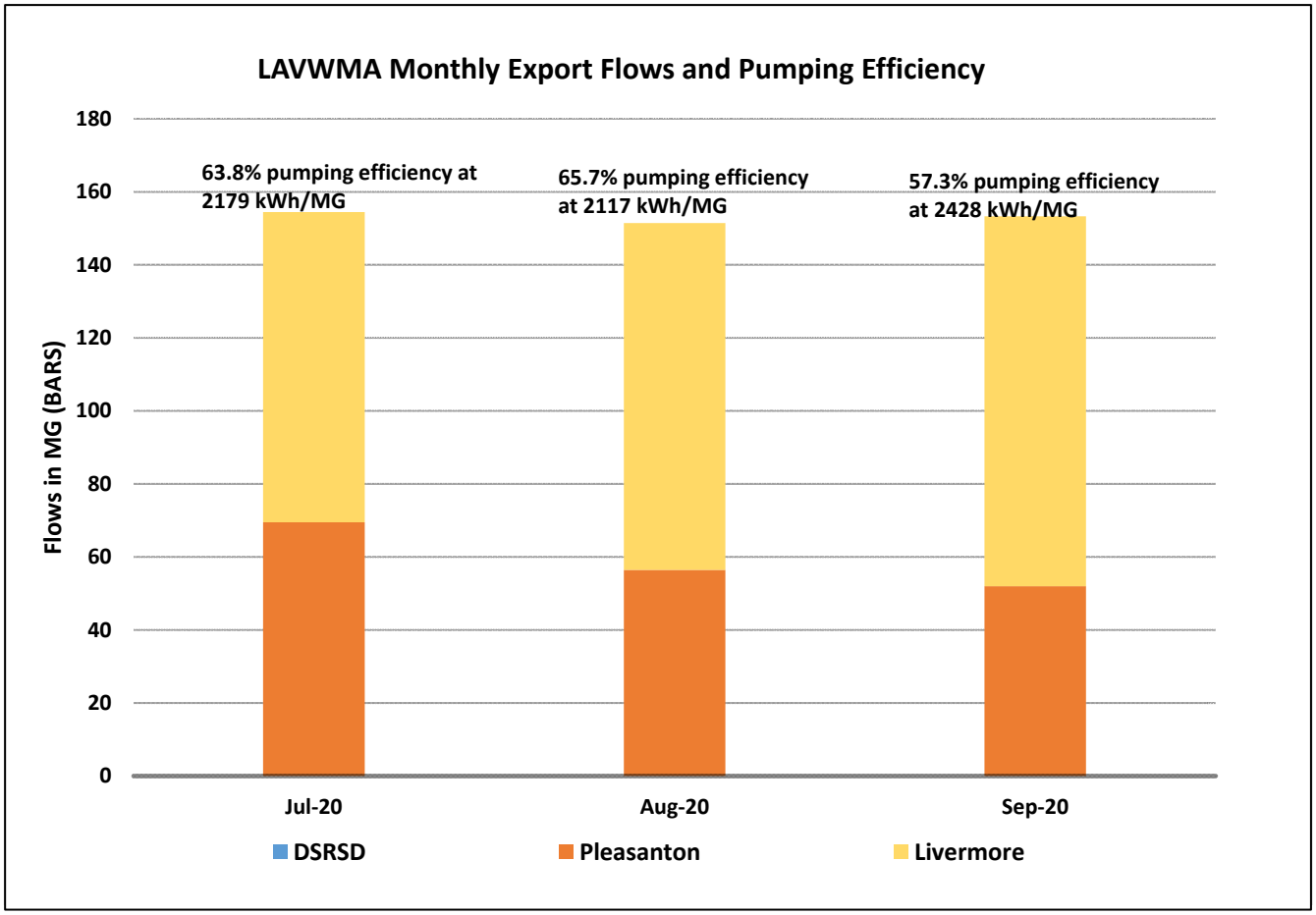
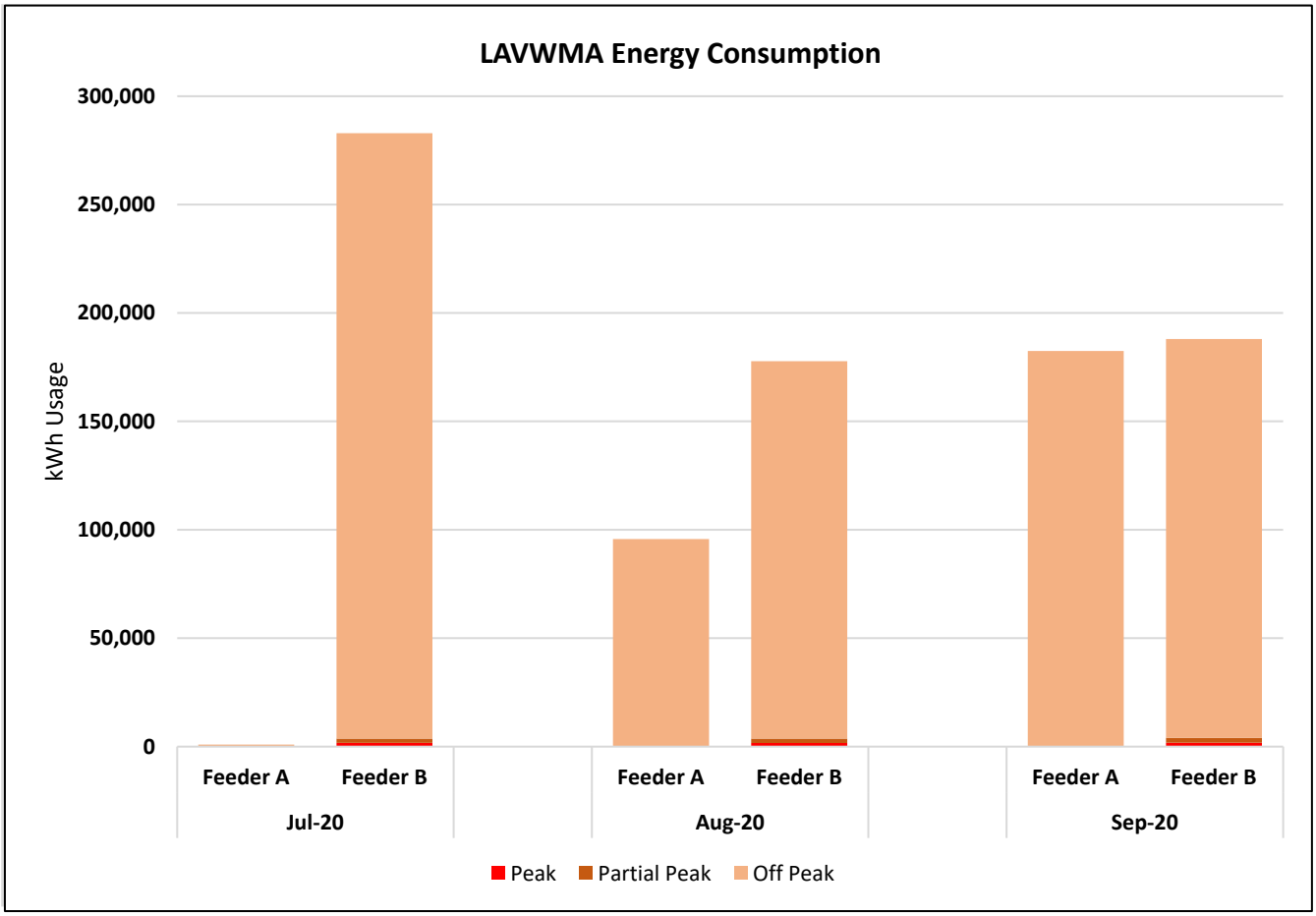
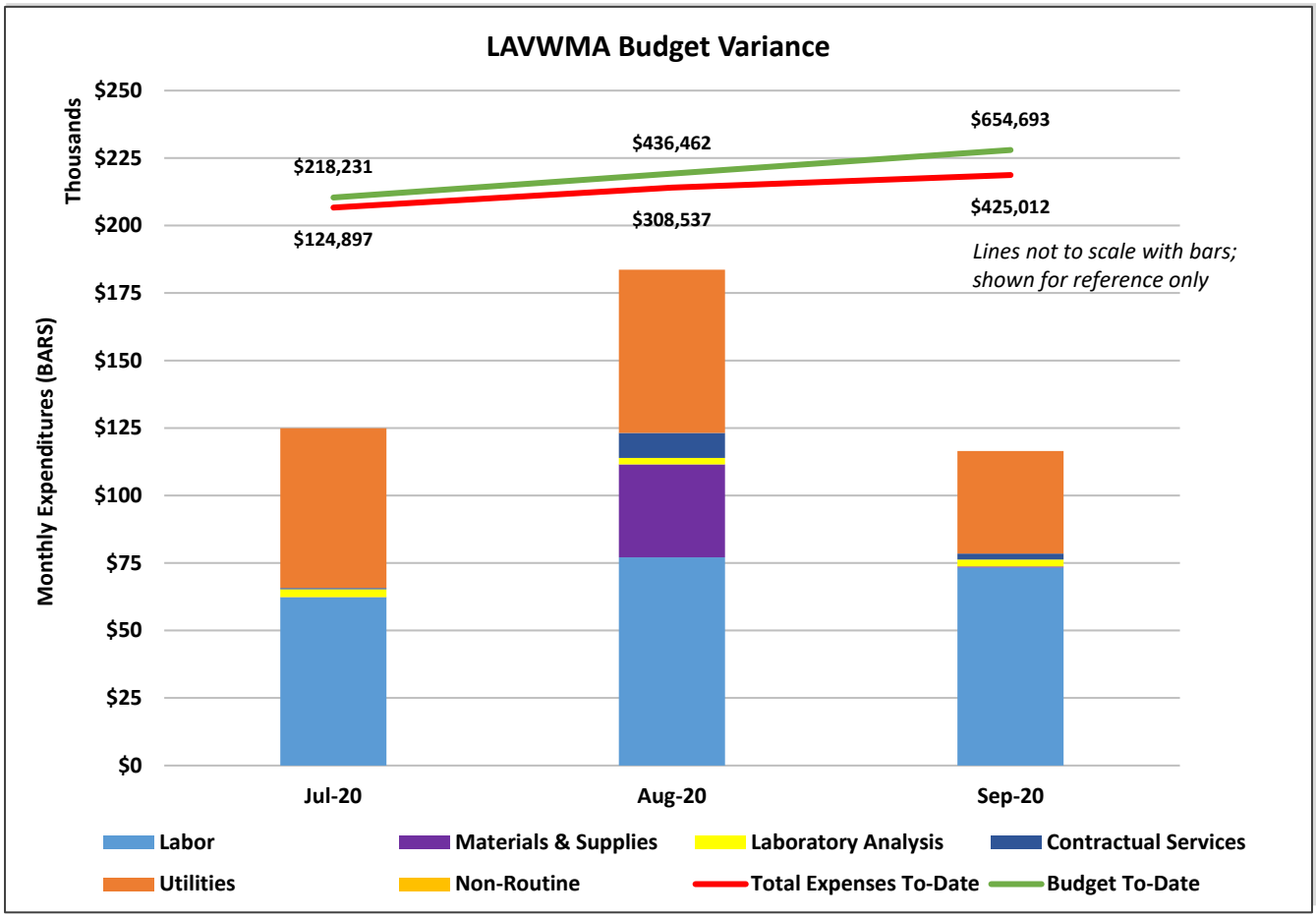
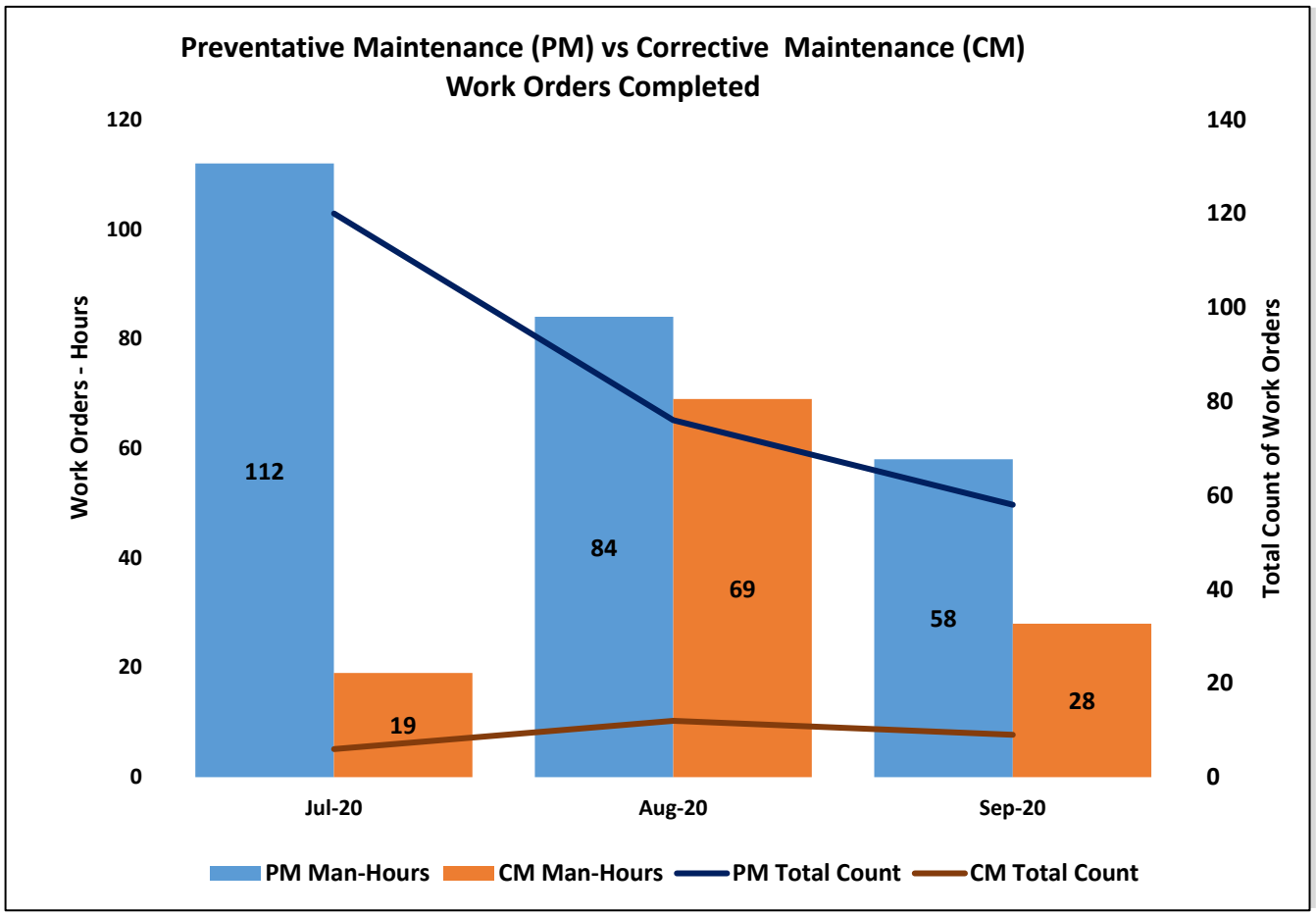

LAVWMA Monthly Export Flows and Pumping Efficiency
Flows in MG (BARS)
180
160
140
120
100
80
60
40
20
0
63.8% pumping efficiency at 2179 kWh/MG
65.7% pumping efficiency at 2117 kWh/MG
57.3% pumping efficiency at 2428 kWh/MG
Jul-20
Aug-20
Sep-20
DSRSD
Pleasanton
Livermore


LAVWMA Energy Consumption
kWh Usage
300,000
250,000
200,000
150,000
100,000
50,000
0
Feeder A
Feeder B
Jul-20
Aug-20
Sep-20
Peak
Partial Peak
Off Peak


LAVWMA Budget Variance
Thousands
Monthly Expenditures (BARS)
$250
$225
$200
$175
$150
$125
$100
$75
$50
$25
$0
$218,231
$436,462
$654,693
$124,897
$308,537
$425,012
Lines not to scale with bars; shown for reference only
Jul-20
Aug-20
Sep-20
Labor
Materials & Supplies
Laboratory Analysis
Contractual Services
Utilities
Non-Routine
Total Expenses To-Date
Budget To-Date


Preventative Maintenance (PM) vs Corrective Maintenance (CM)
Work Orders Completed
Work Orders - Hours
Total Count of Work Orders
120
100
80
60
40
20
0
140
120
100
80
60
40
20
0
112
19
84
69
58
28
Jul-20
Aug-20
Sep-20
PM Man-Hours
CM Man-Hours
PM Total Count
CM Total Count

QUARTERLY REPORT OF OPERATIONS
LAVWMA PUMPING AND CONVEYANCE SYSTEM
1st Quarter FY 2020-2021: July to September 2020

1. EXECUTIVE SUMMARY

The Livermore-Amador Valley Water Management Agency (LAVWMA) pumping and effluent conveyance system operated normally during the first quarter of FY 2020-2021. During the quarter, a total of 459 million gallons of fully treated secondary effluent were pumped to San Francisco Bay via the East Bay Dischargers Authority (EBDA) outfall diffuser and San Leandro Sample Station (SLSS); the overall efficiency of the pumping system averaged 62.2%, with an average electrical cost of $464 per million gallons, or $151 per acre-foot.

Total year-to-date operations and maintenance (O&M) expenses is $425,012 or 16.2% of the O&M annual budget amount of $2,618,772 and the running overall cost of operation is $926 per million gallons pumped or $302 per acre-foot.

2. OPERATIONS

Of the total 459 million gallons of effluent conveyed through the LAVWMA system, approximately 281 million gallons was from the City of Livermore and 178 MG from City of Pleasanton. DSRSD recycled most of its effluent during the quarter. Monthly export flow summary is shown on Table 4. Monthly reports sent to EBDA which detail daily export flows and monitoring analysis of the treated effluent during the quarter are shown on Tables 9, 10, and 11.

3. MAINTENANCE

During the quarter, 254 hours were spent on preventative maintenance (PM) work orders and 115 hours on corrective maintenance (CM) work orders on LAVWMA equipment and systems. The following are some noteworthy maintenance activities during the quarter:

- Instrumentation and Controls:
  - Replaced sampler at the junction structure
  - Rerouted and replumbed analyzer piping in the pump station CL2 analyzer room for safer and easier maintenance
  - Completed installation of upgraded vibration sensors and monitors; fine tuning of monitors on all 10 motors (Pumps #2 and #5 still need additional tuning)
  - Completed the power monitoring software upgrade from PowerNet to Foreseer as part of the WWTP upgrade project.

- Mechanical
  - Replaced Pump #9 discharge check valve and rebuilding the old unit
  - Serviced air relief valves on the gravity side
  - Installed bollards around the perimeter of the damaged and replaced rectifiers P6 and P7
  - Adjusted and tested outfall gate at the pump station junction structure

4. CAPITAL OUTLAY

- Pump Station Basin Joint Sealing: waiting for notice to proceed with work expected to start in November.

- Export Pump Station MCC Replacement Project (Project No. LAVWMA-2020-2):
  - Electrical staff assisted in the project's design phase, including site visits and design reviews

- Pipeline Inspection: project started September 21 and finished on October 8 that required two separate three-day shutdowns and included 11 days of field work and 28,000 feet of pipeline inspected. National Plant Services performed the inspection with supervision and coordination by DSRSD staff. The pipelines were dewatered on the pressure side of the export pump station up to Dublin Canyon Road for inspections each day. The challenge to these shutdowns was storing the water in the LAVWMA basins, which consisted mostly of Livermore's effluent. The capacity of the basins was not enough to hold the water during the three days of inspections, so Livermore diverted their flows to their own holding basins after the second day. DSRSD also stored effluent in its storage basins. After three days of shutdowns, all three LAVWMA basins were full and a sustained pumping to EBDA continues due to the backup of storage and live effluent flows to the basins.

Storage basins in full capacity after dewatering of pipeline

5. BUDGET VARIANCE AND EXPENSES

First quarter labor expenses totaled $212,667 for 1,385 man-hours of effort, an average of 2.7 full time equivalents (FTEs). O&M expenses for the quarter including labor, supplies, laboratory analysis, contractual services, and utilities totaled $425,012, for an average cost of $926 per million gallons pumped or $302 per acre-foot. The total expense for the Livermore sole use pipeline for the quarter was $707.

Operation and maintenance (O&M) expenses and budget utilization details are shown on Tables 5, 6, 7, and 8.

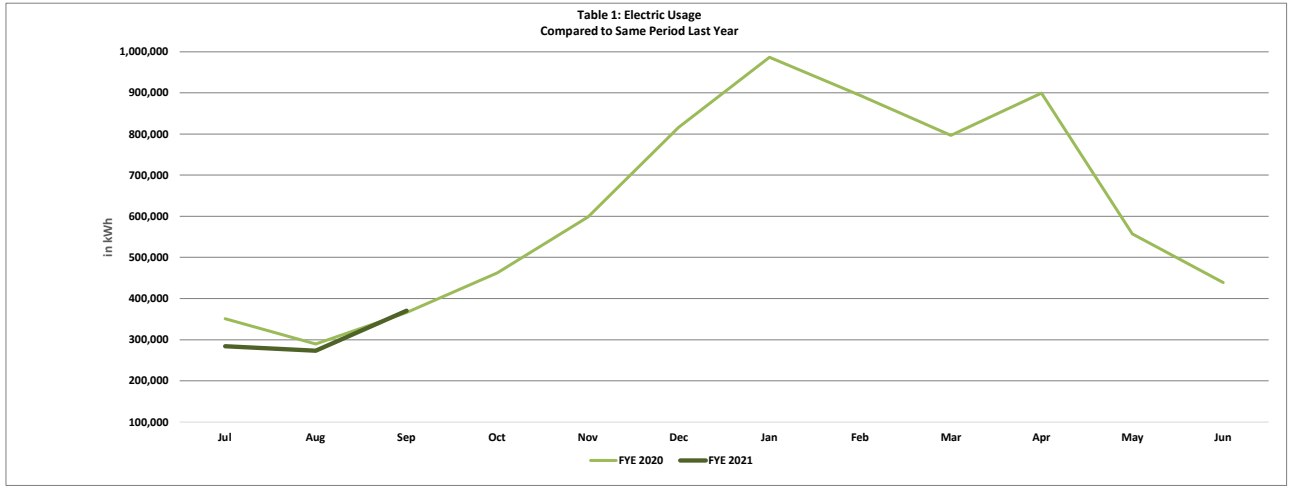
6. ITEMS OF INTEREST

DSRSD continues to run operations for the LAVWMA system under the COVID-19 State and County orders. Staff continues involvement with the current capital project schedules. LAVWMA was impacted by the Public Safety Power Shutoff (PSPS) events and State rolling blackouts August 17-August 20. DSRSD operated under the PSSP emergency plan during the above events due to the unknown power outage length of each event.

TABLE 1 - Electric Usage, Efficiency and Costs

LAVWMA SYSTEM: Fiscal Year 2020-2021, 1st Quarter

	PG&E Service Accounts: Rate Schedule E20S														Total	Pumping			
	Acct # 8482061923-1 Service A					Acct # 8440395259-5 Service B					Billing	Total			Export	Energy	Cost		Efficiency
Month	kWh	Peak	Partial Peak	Off Peak	$	kWh	Peak	Partial Peak	Off Peak	$	Days	kWh	$/kWh	$	Flow[1] MG	kWh/MG	$/MG	$/AF	%
Jul-20	**857**	**0**	**0**	**857**	**$9,287**	**282,971**	**1,659**	**1,992**	**279,320**	**$48,872**	**29**	**283,828**	**$0.20**	**$58,159**	**130**	**2,179**	**$446**	**$145**	**63.8%**
Aug-20	**95,667**	**0**	**0**	**95,667**	**$24,743**	**177,763**	**1,638**	**1,982**	**174,143**	**$34,043**	**30**	**273,430**	**$0.21**	**$58,786**	**129**	**2,117**	**$455**	**$148**	**65.7%**
Sep-20	**182,479**	**0**	**0**	**182,479**	**$37,167**	**187,983**	**1,786**	**2,220**	**183,977**	**$37,682**	**32**	**370,462**	**$0.20**	**$74,849**	**153**	**2,428**	**$490**	**$160**	**57.3%**
Oct-20																			
Nov-20																			
Dec-20																			
Jan-21																			
Feb-21																			
Mar-21																			
Apr-21																			
May-21																			
Jun-21																			
Quarter																			
Average	93,001				$23,732	216,239				$40,199	30	309,240	$0.21	$63,931	137	2,241	**$464**	**$151**	**62.2%**
Total	279,003				$71,197	648,717				$120,597	91	927,720		$191,794	412	6,724			
Minimum	857				$9,287	177,763				$34,043	29	273,430	$0.20	$58,159	129	2,117	$446	$145	57.3%
Maximum	182,479				$37,167	282,971				$48,872	32	370,462	$0.21	$74,849	153	2,428	$490	$160	65.7%
YTD																			
Average	93,001				$23,732	216,239				$40,199	30	309,240	$0.21	$63,931	137	2,241	$464	$151	62.2%
Total	279,003				$71,197	648,717				$120,597	91	927,720		$191,794	412	6,724			
Minimum	857				$9,287	177,763				$34,043	29	273,430	$0.20	$58,159	129	2,117	$446	$145	57.3%
Maximum	182,479				$37,167	282,971				$48,872	32	370,462	$0.21	$74,849	153	2,428	$490	$160	65.7%



NOTES:
1) To calculate pumping efficiency, read dates, electric usage, and export flows are **matched to PG&E billing periods**: 6/15/20 - 7/13/20 for June; 7/14/20 - 8/12/20 for July; 8/13/20 - 9/13/20 for August.

2) Pumping efficiency is based on continuous average flows and a TDH of 442.8 feet, including static lift of 408.8 feet and piping losses of 34 feet (per Charlie Joyce, B&C, 2/12/07).

TABLE 2 - Pump Run Time Hours

LAVWMA SYSTEM: Fiscal Year 2020-2021, 1st Quarter

Month	Pump No. 1 Hours	Pump No. 2 Hours	Pump No. 3 Hours	Pump No. 4 Hours	Pump No. 5 Hours	Pump No. 6 Hours	Pump No. 7 Hours	Pump No. 8 Hours	Pump No. 9 Hours	Pump No. 10 Hours	TOTAL Pump Run Hours	TOTAL Pump Utilization %
Jul-20	**1**	**165**	**71**	**0**	**1**	**8**	**329**	**37**	**0**	**11**	**623**	**8.4%**
Aug-20	**112**	**1**	**230**	**1**	**0**	**1**	**312**	**0**	**97**	**1**	**755**	**10.1%**
Sep-20	**48**	**1**	**256**	**96**	**0**	**181**	**99**	**78**	**229**	**66**	**1,054**	**14.6%**
Oct-20												
Nov-20												
Dec-20												
Jan-21												
Feb-21												
Mar-21												
Apr-21												
May-21												
Jun-21												
Quarter												
Average	53	56	186	32	0	63	247	38	109	26	811	11.1%
Total	160	167	557	97	1	190	740	115	327	78	2,432	
Minimum	1	1	71	0	0	1	99	0	0	1	623	8.4%
Maximum	112	165	256	96	1	181	329	78	229	66	1,054	14.6%
YTD												
Average	53	56	186	32	0	63	247	38	109	26	811	11.1%
Total	160	167	557	97	1	190	740	115	327	78	2,432	
Minimum	1	1	71	0	0	1	99	0	0	1	623	8.4%
Maximum	112	165	256	96	1	181	329	78	229	66	1,054	14.6%

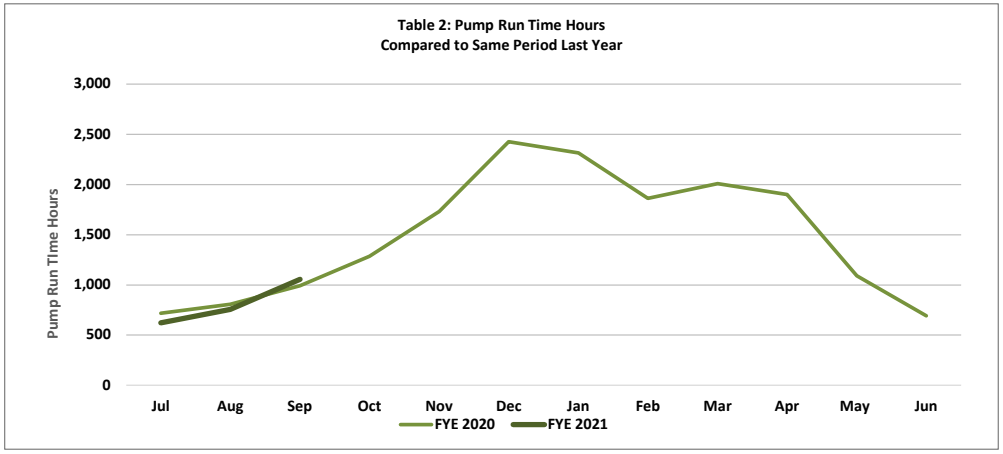
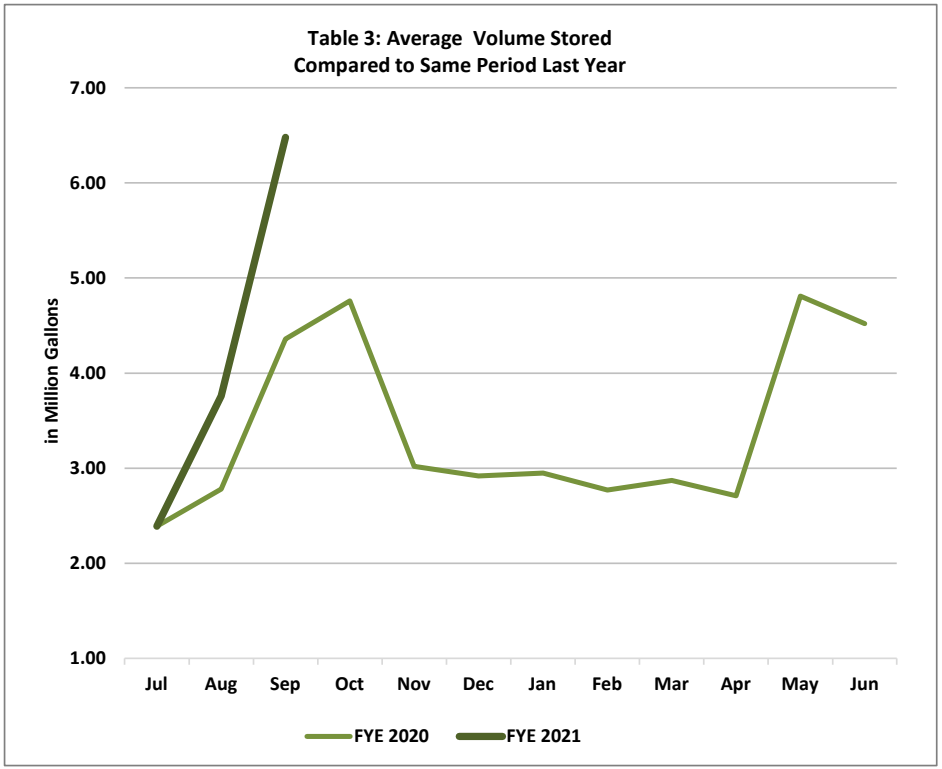


TABLE 3 - Monthly Average Storage Basin Levels and Volume

LAVWMA SYSTEM: Fiscal Year 2020-2021, 1st Quarter

	Average Daily Volume			Average		Storage
	Basin	Basin	Basin	Volume	Storage	Basin
	No. 1	No. 2	No. 3	Stored	Available	Utilization
Month	Feet	Feet	Feet	MG	MG	%
Jul-20	**2.51**	**0.14**	**2.22**	**2.39**	**18**	**13.3%**
Aug-20	**3.54**	**0.07**	**4.11**	**3.76**	**18**	**20.9%**
Sep-20	**4.68**	**1.23**	**6.97**	**6.48**	**18**	**36.0%**
Oct-20						
Nov-20						
Dec-20						
Jan-21						
Feb-21						
Mar-21						
Apr-21						
May-21						
Jun-21						
Quarter						
Average	3.58	0.48	4.43	4.21		0.23
Minimum	2.51	0.07	2.22	2.39		0.13
Maximum	4.68	1.23	6.97	6.48		0.36
YTD						
Average	3.58	0.48	4.43	4.21		23.4%
Minimum	2.51	0.07	2.22	2.39		13.3%
Maximum	4.68	1.23	6.97	6.48		36.0%

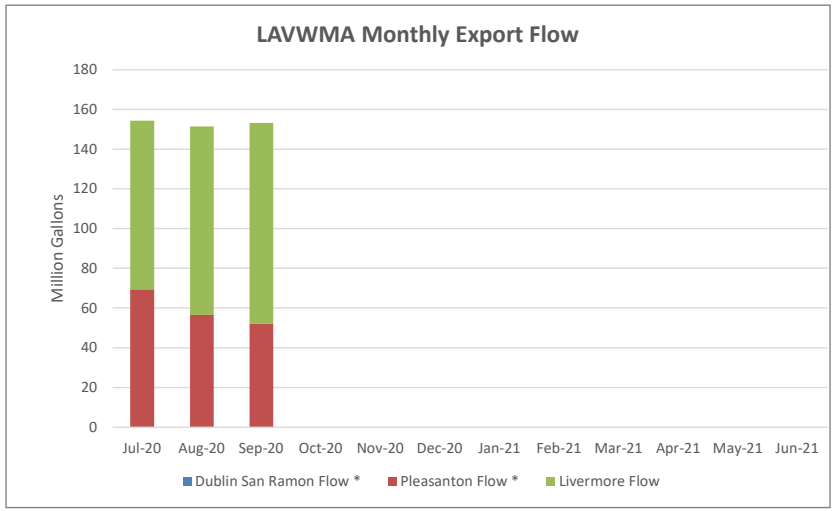


Note: Total available storage volume is 18 million gallons.

TABLE 4 - Monthly Export Flow

LAVWMA SYSTEM: Fiscal Year 2020-2021, 1st Quarter

Month	Dublin San Ramon Flow * MG	Pleasanton Flow * MG	Livermore Flow MG	Combined Export Flow MG	Total for Quarter
Jul-20	**0.00**	**69.47**	**84.98**	**154.45**	
Aug-20	**0.00**	**56.45**	**94.98**	**151.43**	
Sep-20	**0.00**	**51.96**	**101.32**	**153.28**	**459.16**
Oct-20					
Nov-20					
Dec-20					0.00
Jan-21					
Feb-21					
Mar-21					0.00
Apr-21					
May-21					
Jun-21					0.00
Quarter					
Total	0.00	177.88	281.28	**459.16**	
Average	0.00	59.29	93.76	153.05	
Minimum	0.00	51.96	84.98	151.43	
Maximum	0.00	69.47	101.32	154.45	
YTD					
Total	0.00	177.88	281.28	459.16	
Average	0.00	59.29	93.76	153.05	
Minimum	0.00	51.96	84.98	151.43	
Maximum	0.00	69.47	101.32	154.45	



* Monthly totals do not include flows diverted for recycling use by DERWA and Pleasanton.

TABLE 5 - Labor Effort, Expenditures, and Budget Utilization

LAVWMA SYSTEM: Fiscal Year 2020-2021, 1st Quarter

FY Labor Budget $1,010,492

Month	Billed Labor Hours	FTE Equiv	Labor Invoice	YTD Labor Expense	Budget Utilization	Labor Budget Remaining	Export Flow MG	Export Flow AF
Jul-20	**420.0**	**2.4**	**$62,233**	**$62,233**	**6.2%**	**$948,259**	**154.45**	**474**
Aug-20	**498.5**	**2.9**	**$77,098**	**$139,331**	**13.8%**	**$871,161**	**151.43**	**465**
Sep-20	**466.5**	**2.7**	**$73,335**	**$212,667**	**21.0%**	**$797,825**	**153.28**	**470**
Oct-20								
Nov-20								
Dec-20								
Jan-21								
Feb-21								
Mar-21								
Apr-21								
May-21								
Jun-21								
QUARTER								
Total	**1,385.0**		**$212,667**				459.16	1,409
Average	461.7	**2.7**	$70,889				153.05	470
Minimum	420.0	2.4	$62,233				151.43	465
Maximum	498.5	2.9	$77,098				154.45	474
YTD								
Total YTD	1,385.0		$212,667		**21.0%**	$797,825	459.16	1,409
Average YTD	461.7	2.7	$70,889				153.05	470
Minimum	420.0	2.4	$62,233				151.43	465
Maximum	498.5	2.9	$77,098				154.45	474

TABLE 6 - O&M Expenditures and Budget Utilization

LAVWMA SYSTEM: Fiscal Year 2020-2021, 1st Quarter

Total O&M Budget: $2,618,772

Month	Labor Expenses	A/P Expenses	Total O&M Expenses	YTD O&M Expenses	Budget Utilization	O&M Budget Remaining	Overall O&M Cost $/MG	Overall O&M Cost $/AF	Export Flow MG	Export Flow AF
Jul-20	**$62,233**	**$62,664**	**$124,897**	**$124,897**	**4.8%**	**$2,493,875**	**$809**	**$263**	**154.45**	**474**
Aug-20	**$77,098**	**$106,542**	**$183,640**	**$308,537**	**11.8%**	**$2,310,235**	**$1,213**	**$395**	**151.43**	**465**
Sep-20	**$73,335**	**$43,140**	**$116,475**	**$425,012**	**16.2%**	**$2,193,760**	**$760**	**$248**	**153.28**	**470**
Oct-20										
Nov-20										
Dec-20										
Jan-21										
Feb-21										
Mar-21										
Apr-21										
May-21										
Jun-21										
QUARTER										
Total	$212,667	$212,345	**$425,012**				**$926**	**$302**	459.16	1,409
Average	$70,889	$70,782	$141,671						153.05	470
Minimum	$62,233	$43,140	$116,475				$760	$248	151.43	465
Maximum	$77,098	$106,542	$183,640				$1,213	$395	154.45	474
YTD										
Total YTD	$212,667	$212,345	**$425,012**				**$926**	**$302**	459.16	1,409
Average YTD	$70,889	$70,782	$141,671							
Minimum	$62,233	$43,140	$116,475				$760	$248	151.43	465
Maximum	$77,098	$106,542	$183,640				$1,213	$395	154.45	474

Q1 Note: August expenditure of $31K is for the rectifier repair that will be reimbursed by insurance.

TABLE 7 - O&M Expenditures and Budget Utilization for Livermore Sole Use Facilities

LAVWMA SYSTEM: Fiscal Year 2020-2021, 1st Quarter

	Livermore Sole Use Facilities		
Month	Labor Expenses	A/P Expenses	Total Expenses
Jul-20	**$0**	**$0**	**$0**
Aug-20	**$194**	**$342**	**$536**
Sep-20	**$0**	**$171**	**$171**
Oct-20			
Nov-20			
Dec-20			
Jan-21			
Feb-21			
Mar-21			
Apr-21			
May-21			
Jun-21			
Quarter			
Total	**$194**	**$513**	**$707**
Average	$65	$171	$236
Minimum	$0	$0	$0
Maximum	$194	$342	$536
YTD			
YTD Total	$194	$513	$707
YTD Average	$65	$171	$236
YTD Minimum	$0	$0	$0
YTD Maximum	$194	$342	$536

LAVWMA
BUDGET COMPARISON TO ACTUAL EXPENSES

Current FY Period: 3

ACTUAL EXPENSES BILLED TO LAVWMA FOR REGULAR O&M

	Budget	July	August	September	October	November	December	January	February	March	April	May	June	YTD	YTD
	FY 2020-2021	2020	2020	2020	2020	2020	2020	2021	2021	2021	2021	2021	2021	TOTAL	Budget
Labor															
Staff	$1,010,492	$62,233	$77,098	$73,335										$212,667	$252,623
Subtotal	**$1,010,492**	**$62,233**	**$77,098**	**$73,335**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$212,667**	**$252,623**
Materials & Supplies															
Operations Supplies	$12,200		$300	$9										$309	$3,050
Mechanical Supplies	$25,000	$132	$2,977	$393										$3,502	$6,250
Electrical Supplies	$25,500		$31,159											$31,159	$6,375
Subtotal	**$62,700**	**$132**	**$34,436**	**$402**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$34,970**	**$15,675**
Laboratory Analysis															
Compliance Testing	$11,300	$965	$772	$965										$2,702	$2,825
Operational Support Testing	$4,000	$356	$356	$356										$1,068	$1,000
Special Sampling	$15,000	$1,570	$1,256	$1,256										$4,082	$3,750
Subtotal	**$30,300**	**$2,891**	**$2,384**	**$2,577**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$7,852**	**$7,575**
Contractual Services															
Sub-surface Repairs	$5,000													$0	$1,250
Street Sweeping	$5,000		$493	$394										$887	$1,250
Cathodic Protection Survey & Repairs	$30,000													$0	$7,500
Underground Service Alert	$3,800		$3,517											$3,517	$950
SCADA software maintenance contract	$10,000		$4,673											$4,673	$2,500
HVAC Maintenance/Repairs	$750													$0	$188
Termite/Pest Control	$900													$0	$225
Landscape/weed maintenance	$8,000			$980										$980	$2,000
Janitorial Service	$3,000	$495	$495	$795										$1,785	$750
Fire Extinguisher Maintenance	$200													$0	$50
Postage/Shipping Charges	$250													$0	$63
Professional Services, misc	$10,000		$59											$59	$2,500
Subtotal	**$76,900**	**$495**	**$9,236**	**$2,169**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$11,901**	**$19,225**
Utilities															
Electricity (PG&E)	$1,420,300	$58,803	$59,710	$37,629										$156,143	$355,075
Water & Sewer (Pleasanton)	$1,000	$157		$166										$323	$250
Water (EBMUD)	$880	$186		$197										$383	$220
Telephone/communications	$4,500		$775											$775	$1,125
WW Treatment (DSRSD)	$2,500													$0	$625
Subtotal	**$1,429,180**	**$59,146**	**$60,485**	**$37,992**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$157,623**	**$357,295**
Non-Routine															
Corrosion Studies/ Inspections	$500													$0	$125
Time delay switches for electrical switchgear	$8,000													$0	$2,000
Subtotal	**$8,500**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$2,125**
Monthly Total		**$124,897**	**$183,640**	**$116,475**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$425,012**	**$654,518**
YTD Total	**$2,618,072**	**$124,897**	**$308,537**	**$425,012**											
Combined Export Flow, mg	**3,524**	**127**	**151**	**153**										**431**	**881**
Pumping Efficiency															
Monthly Cost, $/mg		**$986**	**$1,213**	**$760**											
YTD Running Cost, $/mg	**$743**	**$986**	**$1,109**	**$985**											

Q1 Notes:
Corrpro $31,107 expense under Electrical Supplies is for the rectifier P6/P7 repar and is reimbursable by insurance company

LAVWMA
BUDGET COMPARISON TO ACTUAL EXPENSES

Current FY Period: 3

ACTUAL EXPENSES BILLED TO LAVWMA FOR REGULAR O&M															
FY 2020-2021		Jul 2020	Aug 2020	Sep 2020	Oct 2020	Nov 2020	Dec 2020	Jan 2021	Feb 2021	Mar 2021	Apr 2021	May 2021	Jun 2021	YTD TOTAL	YTD Budget
Estimated Personnel Hours															
Division 50 - Ops Admin	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0	-	-	-	-	-	-	-	-	-	-	-		-	
Division 51 - FOD	72	-	-	-	-	-	-	-		-	-	-	-	-	18.00
Water/Wastewater Sys Lead Op	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water/Wastewater Sys OP IV-On Call	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water/Wastewater Sys OP IV	64	-	-	-	-	-	-	-	-	-	-	-	-	-	16.00
Water/Wastewater Sys OP III	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water/Wastewater Sys OP II	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maintenance Worker	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supervisor	8	-	-	-	-	-	-	-	-	-	-	-	-	-	2.00
Division 52 - WWTP	2,996	207.50	225.00	204.00	-	-	-	-	-	-	-	-	-	636.50	749.00
Process Lead Operator IV/V	200	1.00	4.00	15.00										20.00	50.00
Senior WWTP Operator III	2,746	41.50	45.00	29.00										115.50	686.50
Operator In Training	0	160.00	90.00	50.00										300.00	
Operator II	0		80.00	102.00										182.00	-
Operator II (SLSS)	0													-	-
Supervisor	50	5.00	6.00	8.00										19.00	12.50
Division 53 - MECH	1,741	120.00	228.00	183.00	-	-	-	-	-	-	-	-	-	531.00	435.25
Senior Mechanic-Crane Cert	380													-	95.00
Senior Mechanic - USA	82													-	20.50
Maintenance Worker	0													-	
Mechanic I/II	1,229	34.00	90.00	67.00										191.00	307.25
Mechanic II-Crane Cert	0	46.50	103.50	71.00										221.00	-
Mechanic I/II - USA	0	23.50	25.50	32.00										81.00	-
Mechanic II-Crane Cert - USA	0	16.00	9.00	13.00										38.00	-
Supervisor	50	-	-	-	-	-		-	-	-	-	-		-	12.50
Division 54 - ELEC	924	86.00	32.00	76.50	-	-	-	-	-	-	-	-	-	194.50	231.00
Senior Instrument/Controls Tech	12													-	3.00
Instrument Tech	480	29.00	25.00	55.50										109.50	120.00
OPS Control Sys Spec	144	1.00		2.00										3.00	36.00
Senior Electrician	36													-	9.00
Electrician I/II	240	50.00	7.00	17.00										74.00	60.00
Supervisor	12	6.00		2.00										8.00	3.00
Division 26 - SAFETY	48	-	-	-	-	-	-	-	-	-	-	-	-	-	12.00
Safety Officer	48	-	-	-	-	-	-	-	-	-	-	-		-	12.00
Division 40 - ENG	100	6.50	13.50	3.00	-	-	-	-	-	-	-	-	-	23.00	25.00
Associate/Senior Civil Engineer-SME	100	6.50	13.50	3.00										23.00	25.00
Total Estimated Personnel Hours	5,881														
FTE	2.83														
Total Monthly Hours		420.00	498.50	466.50	-	-	-	-	-	-	-	-	-	1,385.00	1,470.25

TABLE 9 **San Leandro Sampling Station Microbiology Results**

July 2020

Collection Date	Fecal Coliform MPN/100ml	Enterococcus MPN/100ml
07/02/20	11	<10
07/09/20	8	<10
07/16/20	2	<10
07/23/20	8	31
07/30/20	22	<10

Median	8	<10
Geometric Mean	7.9	12.5

TABLE 9 **San Leandro Sampling Station Microbiology Results**

August 2020

Collection Date	Fecal Coliform MPN/100ml	Enterococcus MPN/100ml
08/06/20	9	<10
08/13/20	2	<10
08/20/20	13	<10
08/27/20	2	<10

Median	5.5	<10
Geometric Mean	4.7	10

TABLE 9 **San Leandro Sampling Station Microbiology Results**

September 2020

Collection Date	Fecal Coliform MPN/100ml	Enterococcus MPN/100ml
09/03/20	13	<10
09/11/20	17	62
09/17/20	<2	10
09/25/20	<2	<10

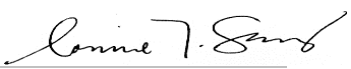
Median	7.5	10
Geometric Mean	5.5	15.8

TABLE 10

Monthly Report for LAVWMA - July 2020
Dublin San Ramon Services District Laboratory
ELAP Certificate # 1272

DATE	FLOW (MGD)	CBOD (mg/L)	CBOD (kg/d)	TSS (mg/L)	TSS (kg/d)	MINIMUM pH (units)	MAXIMUM pH (units)	CHLORINE RESIDUAL (mg/L)	CHLORINE RESIDUAL (SLS STATION) (mg/L)
1	4.97	2.5	47	5.4	102	7.24	7.32	2.419	0.001
2	4.76					7.25	7.32	1.881	0.001
3	4.90					7.23	7.33	0.618	0.001
4	4.51					7.23	7.32	0.688	0.001
5	7.60					7.23	7.35	2.000	0.001
6	5.34					7.19	7.38	3.966	0.001
7	5.34					7.32	7.43	3.852	0.001
8	4.47	2.7	46	6.4	108	7.37	7.43	4.310	0.006
9	4.94					7.32	7.44	4.610	0.003
10	4.93					7.33	7.41	4.623	0.005
11	4.54					7.32	7.47	4.427	0.002
12	7.57					7.30	7.48	4.964	0.001
13	5.84					7.37	7.46	4.946	0.001
14	2.64					7.31	7.46	4.259	0.001
15	3.68	3.1	43	7.2	100	7.32	7.45	4.313	0.001
16	3.59					7.31	7.44	4.410	0.001
17	3.47					7.33	7.45	4.492	0.001
18	3.47					7.40	7.48	4.337	0.001
19	6.42					7.43	7.48	4.986	0.001
20	6.82					7.35	7.47	4.986	0.001
21	2.09					7.40	7.75	4.818	0.001
22	4.79	3.6	65	5.7	103	7.60	7.78	4.986	0.001
23	4.07					7.67	7.78	4.809	0.001
24	4.69					7.68	7.80	4.984	0.001
25	4.71					7.76	7.81	4.764	0.001
26	7.31					7.77	7.86	4.668	0.001
27	6.08					7.55	7.77	4.675	0.001
28	6.08					7.63	7.74	4.605	0.001
29	4.91	2.2	41	5.0	93	7.58	7.70	3.919	0.001
30	4.95					7.61	7.82	3.850	0.002
31	4.99					7.53	7.65	3.135	0.001
MAX.	7.60	3.6	65	7.2	108	7.77	7.86	4.99	0.01
MIN.	2.09	2.2	41	5.0	93	7.19	7.32	0.62	0.00
AVE.	4.98	2.8	48	5.9	101	7.42	7.54	4.01	0.00
TOTAL	154.45								

Samples collected from LAVWMA Export Pump Station, except for chlorine at the San Leandro Sampling Station as noted.
MGD = Millions of gallons per day; mg/L = milligrams per liter; kg/d = kilograms per day

Authorized for release by:  Date: 8/25/2020

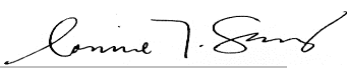
Connie Sanchez, Acting Laboratory Supervisor

TABLE 10

Monthly Report for LAVWMA - August 2020
Dublin San Ramon Services District Laboratory
ELAP Certificate # 1272

DATE	FLOW (MGD)	CBOD (mg/L)	CBOD (kg/d)	TSS (mg/L)	TSS (kg/d)	MINIMUM pH (units)	MAXIMUM pH (units)	CHLORINE RESIDUAL (mg/L)	CHLORINE RESIDUAL (SLS STATION) (mg/L)
1	5.20					7.64	7.70	2.488	0.001
2	5.20					7.64	7.76	2.824	0.003
3	4.77					7.59	7.81	3.344	0.001
4	4.77					7.66	7.82	3.361	0.001
5	4.11	1.8	28	4.2	65	7.54	7.70	3.454	0.001
6	3.86					7.52	7.64	3.202	0.001
7	4.02					7.46	7.58	3.695	0.001
8	3.66					7.53	7.60	4.145	0.016
9	7.10					7.54	7.61	4.759	0.005
10	5.71					7.37	7.79	4.986	0.001
11	5.71					7.70	7.80	3.996	0.001
12	4.21	1.9	30	2.6	41	7.59	7.75	3.473	0.001
13	3.69					7.51	7.70	3.694	0.001
14	3.91					7.43	7.56	3.013	0.001
15	3.80					7.53	7.76	2.724	0.001
16	6.44					7.38	7.74	2.539	0.001
17	4.99					7.35	7.52	2.319	0.001
18	4.99					7.36	7.61	2.753	0.001
19	3.55	2.7	36	5.6	75	7.41	7.64	3.567	0.001
20	3.64					7.39	7.63	4.105	0.001
21	3.57					7.37	7.50	3.112	0.001
22	3.57					7.37	7.47	3.986	0.001
23	6.27					7.32	7.41	4.728	0.001
24	7.48					7.35	7.71	4.755	0.001
25	3.54					7.47	7.64	3.459	0.001
26	4.12	2.8	44	4.6	72	7.47	7.80	3.293	0.001
27	4.09					7.58	7.71	3.323	0.001
28	4.10					7.51	7.66	4.986	0.001
29	6.35					7.63	7.72	4.986	0.001
30	6.35					7.57	7.73	4.986	0.001
31	8.63					7.36	7.69	4.986	0.001
MAX.	8.63	2.8	44	5.6	75	7.70	7.82	4.99	0.02
MIN.	3.54	1.8	28	2.6	41	7.32	7.41	2.32	0.00
AVE.	4.88	2.3	35	4.3	63	7.49	7.67	3.71	0.00
TOTAL	151.43								

Samples collected from LAVWMA Export Pump Station, except for chlorine at the San Leandro Sampling Station as noted.
MGD = Millions of gallons per day; mg/L = milligrams per liter; kg/d = kilograms per day

Authorized for release by:  Date: 9/23/2020

Connie Sanchez, Acting Laboratory Supervisor

TABLE 10

Monthly Report for LAVWMA -September 2020
Dublin San Ramon Services District Laboratory
ELAP Certificate # 1272

DATE	FLOW (MGD)	CBOD (mg/L)	CBOD (kg/d)	TSS (mg/L)	TSS (kg/d)	MINIMUM pH (units)	MAXIMUM pH (units)	CHLORINE RESIDUAL (mg/L)	CHLORINE RESIDUAL (SLS STATION) (mg/L)
1	4.59					7.50	7.66	4.065	0.001
2	5.36	1.7	34	3.4	69	7.55	7.66	7.509	0.001
3	6.37					7.55	7.70	7.728	0.001
4	4.13					7.59	7.72	7.034	0.001
5	2.76					7.65	7.75	6.566	0.001
6	4.00					7.57	7.75	5.464	0.001
7	3.30					7.56	7.80	4.626	0.001
8	3.70					7.62	7.81	6.006	0.001
9	3.48					7.60	7.77	3.631	0.001
10	4.21	2.5	40	6.2	99	7.72	7.81	5.611	0.001
11	6.31					7.67	7.74	6.501	0.001
12	5.53					7.58	7.72	5.049	0.001
13	5.76					7.57	7.69	4.773	0.001
14	6.60					7.56	7.80	5.437	0.001
15	3.09					7.62	7.73	5.238	0.001
16	5.90	2.1	47	6.5	145	7.58	7.78	3.379	0.001
17	7.55					7.54	7.61	2.542	0.001
18	6.12					7.45	7.63	3.406	0.001
19	5.94					7.49	7.85	5.572	0.001
20	7.48					7.65	7.92	5.429	0.001
21	4.13					7.25	8.43	6.076	0.001
22	6.30					7.58	7.25	1.111	0.001
23	2.23					7.57	8.45	0.385	0.001
24	8.82					7.84	7.93	0.560	0.001
25	4.17	2.6	41	3.9	62	7.80	7.89	4.069	0.001
26	4.59					7.89	7.95	3.881	0.001
27	6.55					7.75	8.07	3.634	0.001
28	6.33					7.70	7.96	3.698	0.001
29	4.31	6.1	99	7.4	121	7.63	8.52	3.472	0.001
30	3.68					7.72	8.18	0.921	0.001
MAX.	8.82	6.1	99	7.4	145	7.89	8.52	7.73	0.00
MIN.	2.23	1.7	34	3.4	62	7.25	7.25	0.39	0.00
AVE.	5.11	3.0	52	5.5	99	7.61	7.85	4.45	0.00
TOTAL	153.28								

Samples collected from LAVWMA Export Pump Station, except for chlorine at the San Leandro Sampling Station as noted.
MGD = Millions of gallons per day; mg/L = milligrams per liter; kg/d = kilograms per day

Authorized for release by: Connie T. Sanchez Date: 9/20/2020

Connie Sanchez, Acting Laboratory Supervisor

TABLE 11

DUBLIN SAN RAMON SERVICES DISTRICT
WASTEWATER TREATMENT FACILITY

LAVWMA

Langelier pH Saturation Index

Collection DATE	TDS (mg/L)	Temp (ºC)	Ca Hardness (mg/L $CaCO_3$)	Alkalinity (mg/L $CaCO_3$)	pH (Actual)	pH Saturation	Langlier Index
07/14/20	616	23.6	74	252	7.5	7.6	-0.1
08/25/20	906	25.7	136	334	7.6	7.2	0.4
09/15/20	914	24.2	160	396	7.6	7.1	0.5
MAXIMUM	914	25.7	160	396	7.6	7.6	0.5
MINIMUM	616	23.6	74	252	7.5	7.1	-0.1
AVERAGE	812	24.5	123	327	7.6	7.3	0.3

TABLE 11

DUBLIN SAN RAMON SERVICES DISTRICT
WASTEWATER TREATMENT FACILITY

DSRSD

Langelier pH Saturation Index

Collection DATE	TDS (mg/L)	Temp (ºC)	Ca Hardness (mg/L $CaCO_3$)	Alkalinity (mg/L $CaCO_3$)	pH (Actual)	pH Saturation	Langlier Index
07/14/20	770	25.4	130	368	7.0	7.1	-0.1
08/25/20	712	27.3	96	290	7.4	7.3	0.1
09/15/20	948	26.9	168	414	7.5	7.0	0.5
MAXIMUM	948	27.3	168	414	7.5	7.3	0.5
MINIMUM	712	25.4	96	290	7.0	7.0	-0.1
AVERAGE	810	26.5	131	357	7.3	7.2	0.2

TABLE 11

CITY OF LIVERMORE
LIVERMORE WATER RECLAMATION PLANT

Langelier pH Saturation Index

Collection DATE	TDS (mg/L)	Temp (ºC)	Ca Hardness (mg/L $CaCO_3$)	Alkalinity (mg/L $CaCO_3$)	pH (Actual)	pH Saturation	Langlier Index
07/01/20	640	25.0	74	257	7.6	7.6	0.0
08/05/20	550	25.0	65	217	7.4	7.7	-0.3
09/02/20	580	25.0	65	254	7.3	7.6	-0.4
MAXIMUM	640	25.0	74	257	7.6	7.7	0.0
MINIMUM	550	25.0	65	217	7.3	7.6	-0.4
AVERAGE	590	25.0	68	243	7.4	7.6	-0.2

TABLE 12 – LAVWMA Routine and Emergency Contact Information

Agency	*Contact*	*Office*
DSRSD	Sue Stephenson, Community Affairs Supervisor	(925) 875-2295
LAVWMA	Chuck Weir, General Manager	(925) 875-2233

The routine, non-emergency contact information is as follows:

Agency	*Contact*	*Office*
DSRSD	WWTP Main Office/Control Room Office	(925) 846-4565
DSRSD	Shawn Quinlan, Mechanical Maintenance Supervisor	(925) 875-2358
DSRSD	Levi Fuller, WWTP Operations Supervisor	(925) 875-2300
DSRSD	Jeff Carson, Operations Manager	(925) 875-2345
DSRSD	Fax Machine	(925) 462-0658

The after-hours and emergency contact information is as follows:

Agency	*Contact*	*Cell*
DSRSD	24 Hour On Duty Operator	(925) 519-0557
DSRSD	Operator II On Duty	(925) 872-5887
DSRSD	Shawn Quinlan, Mechanical Maintenance Supervisor	(925) 570-7878
DSRSD	Levi Fuller, WWTP Operations Supervisor	(925) 570-8775
DSRSD	Jeff Carson, Operations Manager	(925) 719-2997

The City of Livermore emergency contact information is as follows:

Agency	*Contact*	*Cell*
Livermore	24 Hour On Duty Operator	(925) 960-8160
Livermore	Jimmie Truesdell, Water Resources Operations Manager	(925) 525-2016

The City of Pleasanton emergency contact information is as follows:

Agency	*Contact*	*Cell*
Pleasanton	24 Hour On Call Operator	(925) 437-3992
Pleasanton	Eric Amaro, Chief Utilities System Operator	(925) 437-3605

Agenda Explanation
Livermore-Amador Valley
Water Management Agency
Board of Directors
November 18, 2020

ITEM NO. 10 PROJECT STATUS REPORTS - RISK ANALYSIS OF THE PUMP STATION / FAILURE ANALYSIS OF THE FORCEMAIN SYSTEM PROJECT AND ENGINEERING SERVICES FOR THE MOTOR CONTROL CENTER REPLACEMENT PROJECT

Action Requested
None at this time.

Summary
At the August 21, 2019 Board meeting the Board authorized the General Manager to issue two Requests for Proposal (RFP) for critical pump station projects. The first RFP was to conduct a risk analysis of the pump station electrical system, system storage capabilities, and a failure analysis of the forcemain system. As a reminder, this RFP was designed to help evaluate the risk associated with the potential loss of electrical power due to PG&E's Public Safety Power Shutoff (PSPS) program or other outages, explore alternatives such as using a generator as a backup to allow pumping or storing effluent for up to five days until power is restored, as well as provide an inspection of the forcemain and evaluation of its remaining useful life. The Board also authorized the General Manager to: (a) form a selection committee to evaluate the proposals, and (b) award a Professional Services Agreement to the selected Proposer, if any, in an amount not to exceed $250,000.

The second RFP was to design the Motor Control Center (MCC) Replacement Project. As a reminder, this project involves the design and engineering necessary to bring the two MCCs at the pump station to modern standards since the starters are coming to the end of their useful life and/or have obsolete equipment that cannot be replaced. The Board also authorized the General Manager to; (a) form a selection committee to evaluate the proposals and (b) award a Professional Services Agreement with the selected Proposer, if any, in an amount not to exceed $225,000.

Risk/Failure Analysis and Pipeline Inspection Project Status
HydroScience (HS) was selected for this project. The final scope was revised slightly in light of new information indicating a relatively low risk to LAVWMA regarding a PSPS power outage. This project is a critical path item and is proceeding despite COVID-19 issues. Meetings are being held as webinars. A confidential draft Technical Memo, Pump Station Flow, Storage, and EBDA Capacity Analysis was received on August 6, 2020. The document was based on a comprehensive flow model that utilized all of the available storage at the three facilities. The document and spreadsheets were reviewed and used to determine that the best capacity need in EBDA was 24 million gallons per day (MGD).

Upon further review, the member agencies realized that they could not commit to using all of the storage at DSRSD and Livermore for effluent storage prior to pumping by LAVWMA. During periods of extreme flows the member agencies sometimes need to store influent or primary effluent, which reduces the effective storage for LAVWMA. After much discussion it was agreed that the storage at the two treatment plants should be two third of their total to provide more flexibility in their own operations. HydroScience was asked to rerun the model using the reduced storage parameters as well as including all the ten-year storm events over the last 76 years. The results of the remodeling were discussed on November 10, 2020. The model shows the anticipated discharges to San Lorenzo Creek at flows to EBDA ranging from 24 – 30 MGD. The following table shows the results of the modelling effort:

EBDA Purchased Capacity, MGD	Average Discharge Events per Year	Average hourly flow during event (MGD)	Average Total Volume Discharged per Event (MG)	Total Volume Discharged per Year (MG/Yr)
24	4.25	17.2	6.2	26.3
25	2.03	16.2	7.3	14.7
26	1.08	15.2	8.5	9.2
27	0.78	14.2	8.0	6.2
28	0.53	13.2	8.2	4.3
29	0.45	12.2	7.0	3.1
30	0.29	11.2	8.7	2.5

It should be noted that these results are not significantly different than the results utilizing all storage as the average discharge events at 24 MGD are 1.7 compared to 4.25. The events are lower at the other capacities as well.

The number of discharge events is an NPDES permit issue, which is currently up for renewal. The Report of Waste Discharge (ROWD) is the document that starts the renewal process and is submitted by LAVWMA. The original due date was August 31, 2020 but has twice been extended and was scheduled to be submitted on November 13, 2020. An update will be provided at the Board meeting. The Regional Board is aware that LAVWMA's is negotiating the Master Agreement renewal with EBDA, which will affect the amount of capacity that LAVWMA has to discharge its wastewater into EBDA's system. The Regional Board staff has indicated they are not concerned with the number of discharges to San Lorenzo Creek that are being discussed through the modelling effort because the proposed frequency is generally consistent with the frequency for similarly situated agencies and with LAVWMA's current NPDES permit.

The model also showed how the system would operate during the highest recorded storm events. During the most severe events, the model using 24 MGD showed that storage at the facilities would be at the two thirds level for many days and up to two weeks in some instances. At 30 MGD the model showed that the facilities would be at the two-thirds level for a much shorter period of time. Thus, the modeling effort indicates that if LAVWMA were to select a higher capacity, it would provide more operational flexibility to LAVWMA and the member agencies. Selecting a higher capacity would also increase the costs that LAVWMA would incur under the EBDA Master Agreement.

Following significate discussion, DSRSD operations staff indicated it would like to see further evaluation of total costs for EBDA as well as operating the system at range of flows from 24 – 30 MGD. Livermore and Pleasanton have been asked to confirm that they approve this approach. During the upcoming wet weather season, the plan is to test operating the system at the various capacities. For example, it is not known how many pumps will be required for each capacity and whether or not the level of effort is reasonable. As a consequence, the ROWD will list a range of possible flows and that the final selected flow will be based on a combination of all the cost and operating factors.

The final flow selection will be relevant in the ongoing negotiations of a new Master Agreement with EBDA. There, LAVWMA is being asked to pick a flow volume that it will commit to paying for over the term of the agreement, even if LAVWMA's needs change over time. The Master Agreement will likely allow LAVWMA to purchase increased capacity in the EBDA system over time, but not reduce it, given that this is how EBDA makes capacity available to its own member agencies. Thus, the analysis provided by HydroScience is critical to selecting a flow that meets - but does not exceed - the Agency's needs.

Discussions with the Member Agencies since the November 10, 2020 Zoom meeting have resulted in all agencies accepting the option that 30 MGD should be used in both the EBDA negotiations and the ROWD. Using 30 MGD enhances the operational flexibility and leads to acceptable costs for EBDA. Using 30 MGD also greatly simplifies the ROWD such that there is no specific need to discuss modifications to storage methodologies or procedures. In addition, since the discharges to San Lorenzo Creek are actually predicted to be less than in the current permit, the 2010 Mixing Zone Analysis is still valid. It is now anticipated that the ROWD can be submitted on November 16, 2020.

The pipeline inspection portion of this project finally got underway in late September. As noted on page 5 of the 1st Quarterly Report of Operations, Item No. 9 of the packet, more than 28,000 feet of pipeline were inspected between September 21 – October 8, 2020. The inspection report should be received shortly. The report will also recommend additional inspection areas for this coming year. Many thanks are due DSRSD staff for managing this extremely complicated

process, particularly in light of the pandemic. Both Livermore and DSRSD are to be commended for storing flow to allow the inspections to occur.

MCC Replacement Design Project Status

DTN Engineers was awarded the engineering portion of this project. The final plans and specification were incorporated into a formal RFP bid packet which was completed on October 16, 2020. It was posted on the website and key electrical contractors were notified of the opportunity to bid. A mandatory pre-bid meeting was held on October 28, 2020 and was attended by eleven people, including representatives from six firms and strict coronavirus protocols were followed.

Bids were due by 3:00 p.m. on November 10, 2020. One addendum was issued on November 5, 2020 based primarily upon questions received from potential bidders. A total of four bids were received. In response to COVID-19, a Zoom meeting was held for the bid opening. The following table shows the results of the bids which were opened in the order they were received:

Bidder	Base Bid
Newtron, L.L.C. (1:03 p.m.)	$2,382,220
Con J. Franke Electric Inc. (1:11 p.m.)	$2,271,626
Royal Electric Company (1:23 p.m.)	$2,222,222
Blocka Construction Inc. (2:51 p.m.)	$2,424,000

As a reminder, the Board previously authorized this project in the FY2020/21 Budget at an estimated cost of 1,065,000. The Engineer's Estimate for the project as listed in the bidding documents was $2,300,000 to $2,500,000. The original budget estimate was provided by the design engineer. He was asked why there was such a significant increase and provided the following detailed justifications for the increase:

1. We added two auxiliary medium voltage MCCs to handle the power factor corrections automatically.
2. We added additional enhanced protection features to the existing main power distribution switchgear and sole sourced Eaton for all of this enhanced work. We also specified Eaton to provide software configuration for the Power Quality SEER for communication with the new starters. Current starters do not have any digital communication with the existing power distribution network. This will match systems at DSRSD allowing operation and maintenance standardization.
3. We added motor winding insulation monitoring system as a customized feature so that staff does not have to shut down the pump to monitor the health of the motor windings. These systems monitor when pumps run or are off.

4. We added control panel modifications to replace existing Eaton RTD modules with new RTD controllers, and also added a fiber link from the pump pad to the building control panel. We also required all these RTD controllers digitally communicate back to the PLC for data monitoring and alarm.
5. Miscellaneous items:
   a. Modifications of the existing doors into the electrical room.
   b. Redo the stairs at the control panel to accommodate new conduit runs.
   c. Customized switchgear dimensions to fit the existing cable/conduit terminations.
   d. Added a Storage bin for staff to store electrical parts.
6. Added Construction Management Services to ensure proper oversight of the project. DSRSD does not have adequate staff at this time to provide internal Construction Management Services.

Although the increase in costs is significant, all of the additions and modifications enhance the safety, operation, maintenance, and reliability of the new system. The increased cost has been deemed justified by DSRSD staff and the General Manager. The increased costs will require two actions by the Board: 1) Approve a modification to the FY2020/21 Budget for the increased MCC Project costs; and 2)Approve a Resolution awarding the contract to the lowest responsive and responsible bidder Royal Electric. Both of these items are considered separately in Agenda Item Nos. 11 and 12, respectively.

Royal Electric is the apparent low bidder, and their bid packet is being reviewed to ensure that all requirements have been met. Due to the nature of the services being provided, LAVWMA must award the project to the lowest responsive and responsible bidder. The Bid Protest Deadline was November 12, 2020. No protests were received. Assuming there are no issues, a Notice of Potential Award will be issued which requires additional bonds and insurance documentation. It is estimated that the contract will be executed by November 24, 2020 and the Notice to Proceed will be issued on December 1, 2020. Due to the staging complexity of the project, it is anticipated that the project will take 360 days to complete.

On a related matter, proposals were solicited from three firms to provide construction management services for this project. The following table summarizes the results of the proposals:

Firm	Cost Proposal
Carollo Engineers	$155,290
Psomas	$186,180
HDR Inc.	$326,957

The General Manager, General Counsel, and staff from the member agencies reviewed all three proposals. The HDR proposal was rejected as too costly. The other two were more thoroughly evaluated. It was believed that the Carollo proposal underestimated the level of effort required and that amendments to an agreement would be more costly than the Psomas proposal. Since this project is for engineering services, low cost is not the deciding factor. Psomas staff did the construction management for the cable replacement project and they are currently providing construction management services for DSRSD's primary sedimentation basins project. They currently have staff onsite at DSRSD which is an advantage for LAVWMA as well as their presence reduces COVID-19 related issues. As a consequence, LAVWMA has entered into an agreement with Psomas for construction management services at a cost of $186,180. As noted above, this expense was anticipated and included in the approved budget for the project.

Recommendation

None at this time. This is an information item only. Refer to Agenda Item Nos. 11 and 12 for specific actions related to this report.

Agenda Explanation
Livermore-Amador Valley
Water Management Agency
Board of Directors
November 18, 2020

ITEM NO. 11 MODIFICATION NO. 1 TO THE OPERATING AND CAPITAL BUDGET FOR FISCAL YEAR 2020/21

Action Requested
Approve Modification No. 1 to the Operating and Capital Budget for Fiscal Year 2020/21 for the MCC Replacement Project.

Summary
As described in Agenda Item No. 10, the costs for the MCC Replacement Project have increased from an original estimate of $1,065,000 to a range of from $2,300,000 to $2,500,000. The lowest responsive responsible bid was $2,222,222 from Royal Electric. Adding in the Construction Management Cost of $186,180, bring the total estimated cost to $2,408,000. To provide for contingencies it is recommended that this project be increased from $1,065,000 to $2,500,000.

The attached Modification No. 1 to the Operating and Capital Budget for Fiscal Yar 2020/21 includes that modification. There are no other recommended modifications at this time.

Recommendation
It is recommended that the Board approve Modification No. 1 to the Operating and Capital Budget for Fiscal Year 2020/21 for the MCC Replacement Project at a revised cost of $2,500,000.

Attachment
Modification No. 1 to the Operating and Capital Budget for Fiscal Year 2020/21.

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

OPERATING AND CAPITAL BUDGET

MODIFICATION NO. 1

FISCAL YEAR 2020/21

Approved by the LAVWMA Board _____

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
OPERATING AND CAPITAL BUDGETS
FISCAL YEAR 2020/21

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LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
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EXECUTIVE SUMMARY

OPERATING BUDGET

The proposed operating budget of $3,345,400 is an 8.41% increase from the FY2019/20 budget. The total revenue requirement of $11,751,500 is a 2.26% increase from the FY2019/20 budget. Debt service payments consist of $2,438,658 for the Repair Project, $5,567,442 for the Expansion Project for a total of $8,406,100. It should also be noted that the DSRSD proposed budget for LAVWMA included a 4% increase for operations and maintenance. DSRSD costs are typically well below estimates such that LAVWMA's budget can be less than those projections.

The FY2019/20 Budget includes a few items that exceeded the approved budget including:

- PG&E power will be above budget based on projections for the first nine months of the year. However, low rainfall and water recycling may result in lower costs than projected.
- Monitoring/Testing will be above budget due to $15,000 in special testing required for the renewal of the NPDES permit.
- EBDA Fixed O&M Expenses will be high due to an unbudgeted payment of $135,708 for Other Post Employment Benefit and Pension Fund payments to get the funds to the level of 95% funded.

The total EBDA O&M budget of $664,000 is 2.15% above last year. The increase is largely due to an increase in the NPDES permit fee and studies for the nutrient permit. LAVWMA owns 19.72 MGD of EBDA's 189.1 MGD capacity, or 10.43%. LAVWMA's fixed cost percentage has been increasing per the terms of the agreement from the original 10.43% to the current level of 18.60%. Costs for EBDA are based on fixed and variable (flow based) percentages. The flow-based percentage is currently 17.9% as compared to 17.7% last year. It is in LAVWMA's best interests to reduce both its fixed and variable costs through a combination of renegotiating the agreement, reducing flows through water recycling and flow management during wet weather. The EBDA Master Agreement has been extended through June 30, 2020. An additional extension through December 21, 2020 has already been approved by the Board and is subject to EBDA approval. EBDA has provided a term sheet for a new agreement that includes several items that are not acceptable to the member agencies. A study is currently underway to determine how much additional capacity above the 19.72 MGD will be needed over the next twenty years. EBDA costs for FY20/21 are based on the current agreement. The largest variable for a new agreement is the fixed cost percentage, which will be based on capacity needs. As an example, increasing the fixed cost percentage will cost approximately $18,000 for each percentage point above the current 18.6%.

The proposed FY2020/21 operating budget considers projected FY2019/20 expenditures and is largely based on the detailed budget prepared by DSRSD pursuant to the Maintenance

Agreement, copy attached. FY2019/20 O&M expenditures are projected to be above the approved budget by approximately 6%. This is primarily due to the following: 1) PG&E power, and 2) payment to EBDA for Other Post-Employment Benefits (OPEB) and pension fund obligations. All other costs are projected to be on target budget. The proposed budget includes a modest increase in PG&E costs. The annual reconciliation process will collect any shortfall from the member agencies. Significant water recycling efforts in the service area are continuing and should increase over time, which will help to offset PG&E rate increases. Increased pumping efficiency will also help to offset rate increases. A new time of use rate structure that becomes effective in November 2020 could also prove beneficial. The MCC consultant will review the rate structure and make recommendations.

DSRSD's costs reflect a 2.75% cost of living adjustment. Other Fixed costs have been adjusted based on actual expenditures and anticipated needs for next year. Additional information is included in the remainder of the budget report.

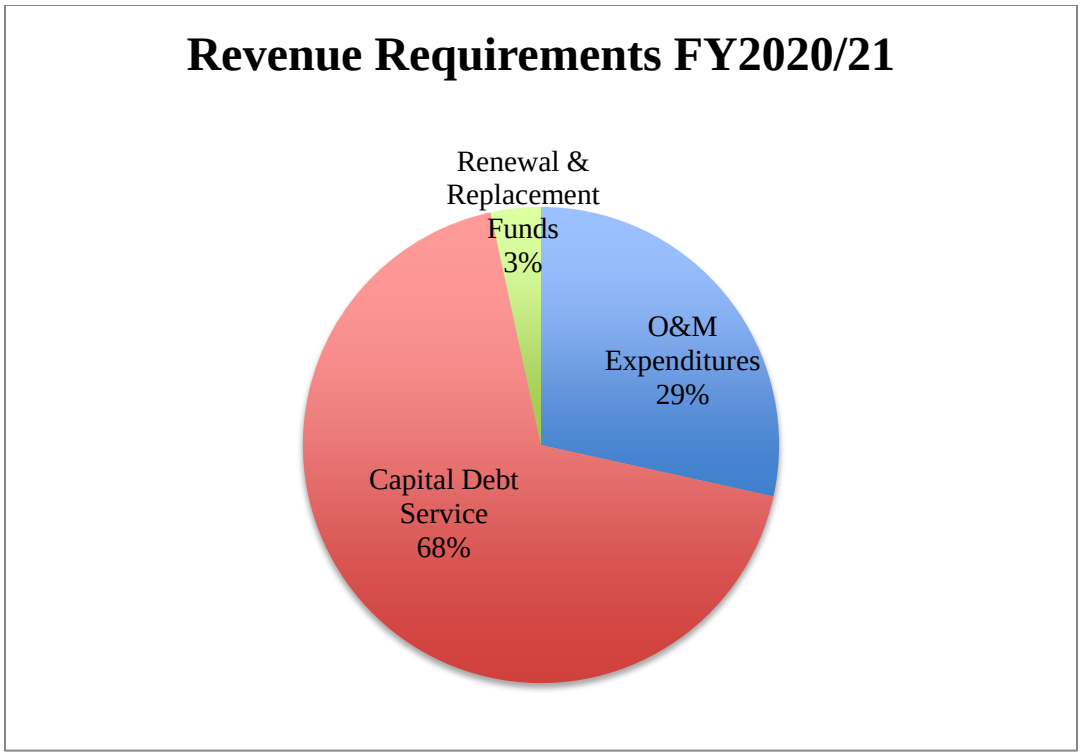
CAPITAL BUDGET

The FY2019/20 capital budget was $1,166,000, of which only $125,000 is projected to be spent this fiscal year. Much of this is due to delays associated with COVID-19 issues, as well as hiring of new staff by DSRSD. The FY2020/21 capital budget of $3,951,000 is for the renewal and replacement of LAVWMA and EBDA facilities and includes the rebuilding of three pumps and motors, resealing the storage basins, design improvements at the San Leandro Sample Station, drainage improvements, increased costs for replacement of the motor control centers and soft starters at the pump station, cathodic protection improvements, and pipeline inspection. All of these major projects have been recommended by DSRSD staff. Please refer to the tables below which provide descriptions and summarize the costs.

REVENUE REQUIREMENTS

The FY2020/21 budget also includes the debt service (repair and expansion) for the 2011 Bonds. Although repair and expansion of the existing pipeline is a capital cost, the associated debt service is tabulated in the operating budget to assist member agencies with their rate and fee calculations. The projected debt service includes payment of principal and interest. This year's budget recommends that the annual deposit to the Joint Use Renewal Replacement Fund be continued at the $400,000 level that was approved five years ago. Due to the increased cost of the MCC Project, the contribution should be revisited next year. Dual Use facilities are minimal and are currently adequately funded. The following pie chart illustrates the allocation of the $11,751,500 in total revenue requirements for FY2020/21.

LAVWMA FY2020/21 Budget



1.0 GENERAL

Livermore-Amador Valley Water Management Agency (LAVWMA) is a Joint Powers Agency comprised of the Cities of Livermore and Pleasanton, and Dublin San Ramon Services District (DSRSD). The City of Livermore collects and treats all City wastewater. DSRSD delivers water to the City of Dublin and the Dougherty Valley, and it collects and treats wastewater for Dublin and southern San Ramon, and treats additional wastewater under a contract with the City of Pleasanton. LAVWMA exports treated effluent from the LAVWMA Pumping Station west over the Dublin Grade, through Castro Valley, and the City of San Leandro, to a pipeline operated by the East Bay Dischargers Authority (EBDA). EBDA dechlorinates the effluent and discharges it through a deepwater outfall into San Francisco Bay. A significant portion of member agency flows are kept within their service areas for water recycling purposes.

1.1 Mission & Goals

LAVWMA'S MISSION

LAVWMA's mission is to support its member agencies: Dublin San Ramon Services District, City of Pleasanton, and City of Livermore by providing cost effective operation and maintenance of all of the Agency export facilities in full compliance with federal, state, and local requirements. LAVWMA supports its member agencies in their efforts to implement comprehensive water recycling programs.

We will complete our work primarily through consultants. We will invest in this diverse project team and promote a work ethic that recognizes and promotes teamwork and a positive work

environment. We will practice fairness, provide challenges, and allow freedom of communication and thought to enable team members to make meaningful contributions to LAVWMA, the industry and our community.

Agency Goals & Objectives

To carry out our Mission, LAVWMA will pursue the following goals:

- **Environmental Compliance.** Continue efficient operations of facilities to prevent wastewater overflows. Meet all CEQA mitigation requirements for new construction. Exceed requirements pertaining to community impacts.

- **Cost Effectiveness.** Continue to perform routine maintenance on existing facilities in a manner that promotes cost savings over the projected life of the facilities.

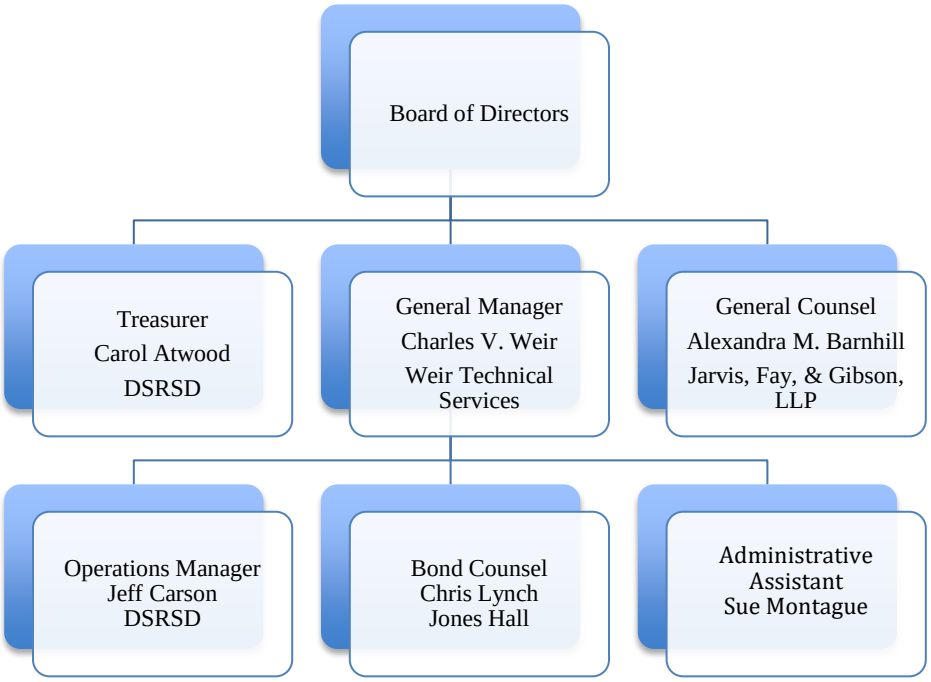
- **Technical Soundness.** Provide technically sound solutions that use the newest available technology without incurring excessive risk.

- **Customer Service.** Continue to comply with the 1997 Joint Exercise of Powers Agreement (JPA) and the October 2011 Sewer Service Contract with the LAVWMA member agencies.

LAVWMA FY2020/21 Budget

1.2 ORGANIZATION

The LAVWMA team proposed for FY2019/20 is shown in the following chart.



2.0 OPERATING BUDGET

2.1 Description of Services Provided

The Operations and Maintenance (O&M) budget includes all costs required to operate and maintain existing LAVWMA facilities. LAVWMA's existing facilities include the sole-use and dual-use interceptors, junction structure, Export and Livermore pumping stations, storage basins, export pipeline including appurtenances, and two emergency dechlorination stations. LAVWMA's facilities are operated and maintained by DSRSD pursuant to a Maintenance Agreement initially executed in 1979.

The FY2020/21 Operating Budget on the following pages includes costs for the following: O&M Variable Costs, O&M Fixed Costs, Admin/Mgmt. Costs, Total O&M Costs, Capital Program Funding, and Total Revenue Requirements.

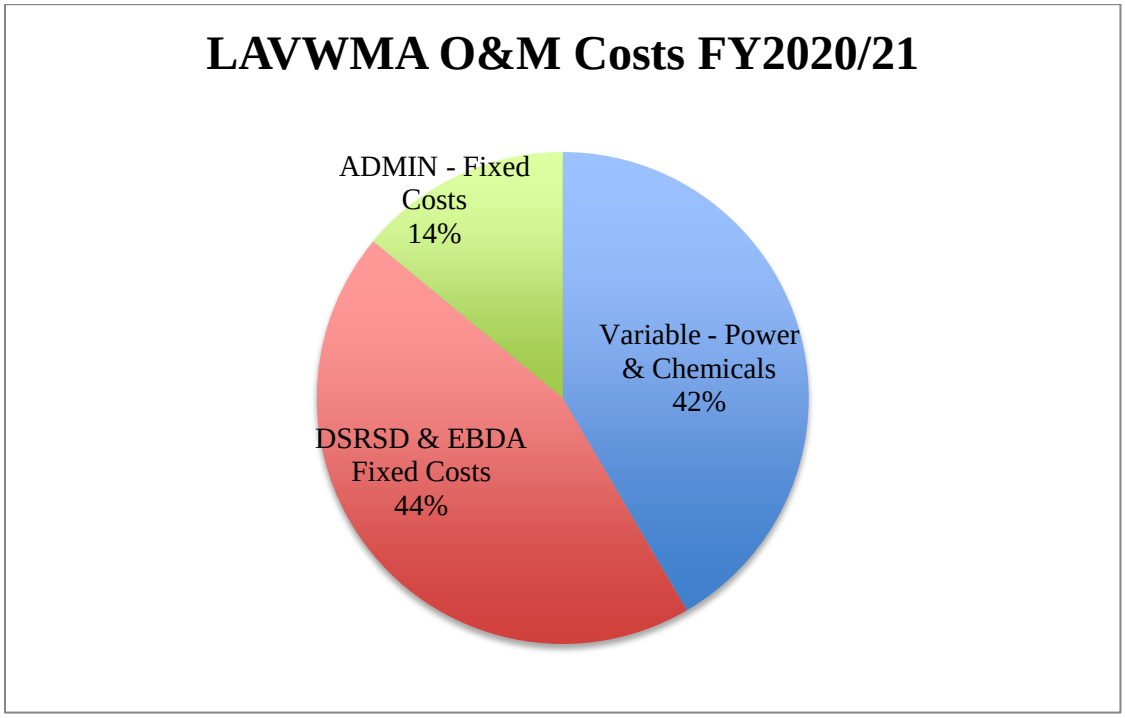
LAVWMA FY2020/21 Budget

		LAVWMA BUDGET FY 2020/21				
FY2020/21 OPERATIONS BUDGET SUMMARY						
			FY2019/20 Adopted Budget	FY2019/20 Projected Actual	FY2020/21 Proposed Budget	Change From Adopted FY2019/20
OPERATIONS AND MAINTENANCE						
	VARIABLE COSTS					
	DSRSD Maintenance Agreement (Power)		$ 1,200,000	$ 1,256,639	$ 1,250,000	4.17%
	EBDA O&M (See Table, Section 2.2.1)		145,000	130,082	141,000	-2.76%
	Subtotal - O&M Variable Costs		1,345,000	1,386,721	1,391,000	3.42%
	FIXED COSTS					
	DSRSD Maintenance Agreement					
		Labor/equip	780,000	765,881	797,000	2.18%
		Materials/Supplies	50,000	32,571	50,000	0.00%
		Contractual	70,000	70,423	70,000	0.00%
		Monitoring/Testing	31,000	43,629	31,000	0.00%
		Utilities (fixed)	7,000	5,879	7,000	0.00%
		Non Routine	8,000	-	8,000	0.00%
	EBDA O&M (See Table, Section 2.2.3)		505,000	640,317	523,000	3.56%
	Subtotal - O&M Fixed Costs		1,451,000	1,558,699	1,486,000	2.41%
	ADMIN/MGMT					
		Mgr/Treas/Counsel/Board	153,000	225,684	273,000	78.43%
		Services/Supplies/Misc	89,000	54,031	132,500	48.88%
		Permits/Insurance	48,000	46,511	62,900	31.04%
	Subtotal Admin/Mgmt		290,000	326,226	468,400	61.52%
	Subtotal All Fixed Costs		1,741,000	1,884,925	1,954,400	12.26%
	TOTAL O&M COSTS		$ 3,086,000	$ 3,271,647	$ 3,345,400	8.41%
			FY2020/21 Proposed Budget	FY2019/20 Projected Actual	FY2020/21 Proposed Budget	Change From Adopted FY2019/20
	CAPITAL PROGRAM FUNDING					
		Replacement Fund	400,000	400,000	400,000	0.00%
		Repair Debt Service	2,438,506	2,438,506	2,438,658	0.01%
		Expansion Debt Service	5,567,094	5,567,094	5,567,442	0.01%
	SUBTOTAL		$ 8,405,600	$ 8,405,600	$ 8,406,100	0.01%
TOTAL REVENUE REQUIREMENTS			$11,491,600	$11,677,247	$11,751,500	2.26%

LAVWMA FY2020/21 Budget

2.2 Operating Budget Summaries

The following pie chart depicts the allocation of operating costs:



2.2.1 Variable Costs – Power and Chemicals

Variable costs for power (DSRSD/EBDA) and chemicals (EBDA) are directly tied to the volume of flow that LAVWMA discharges. They total $1,391,000 and make up approximately 42% of LAVWMA's total operating budget. Pumping and chemical costs for FY2020/21 are projected to be 3.42% more than last year. The increase in PG&E electrical costs are not yet known as they are still negotiating with the Public Utilities Commission. The ultimate increase could be substantial as PG&E is attempting to recoup costs from a variety of recent setbacks. Increases will be partially offset by improved pumping efficiency due to the new pumps and that is reflected in the power costs. The FY2020/21 Budget is based on actual costs for the current year. The following table details the variable costs for EBDA.

Facility	**Variable Cost**	**LAVWMA Cost, 17.89%**	**LAVMWA Cost, 3.12%**
General Administration	$21,500	$3,847	-
Outfall & Forcemains	$150,000	$9,394 (35%)	-
Marina Dechlor Facility	$222,000	$39,723	-
Dechlorination Costs	$235,000	-	$7,337
Oro Loma Pump Station	$420,000	$75,152	
Bay & Effluent Monitoring	$30,000	$5,638	
Total	**$843,500**	**$133,485**	**$7,337**

The total estimate for EBDA Variable O&M Costs is $140,822, which has been rounded up to $141,000 in the FY20/21 Budget.

2.2.2 Fixed Costs - DSRSD Maintenance Agreement

Operation and maintenance of LAVWMA facilities for FY2020/21 is estimated to require 5,881 fully burdened labor hours. This is the same as last year. Costs for these items are based on projected costs for FY2019/20 and anticipated needs for FY2020/21.

2.2.3 Fixed Costs - EBDA Agreement

This item covers EBDA's fixed operational and maintenance costs that are billed to LAVWMA. It also covers costs to EBDA for various Special Projects including the Regional Monitoring Program (RMP) and LAVWMA's share of EBDA's permit fees. Some of these costs are shared on different percentages than LAVWMA's fixed cost percentage in the agreement with EBDA. As an example, the RMP cost is based on the mass of four metals, copper, chromium, nickel, and selenium. LAVWMA's share is 18.98% for a total of $53,151. LAVWMA's share of the permit fee ($555,483) is based on the permitted average dry weather flows for each agency that is part of the EBDA system. LAVWMA's share of this cost is 26.62%, or $147,888.

LAVWMA's share of EBDA Special Projects for FY2020/21 are less than $5,000, which is much lower than in prior years.

LAVWMA is responsible for a portion of the forcemain system and will be billed accordingly. LAVWMA is currently responsible for 18.60% of the fixed costs for "shared" EBDA facilities. This is the maximum percentage per the existing Master Agreement. This year's fixed cost budget is $523,000, which is 3.56% more than last year. Total EBDA costs for variable and fixed costs for FY2020/21 are $664,000 as compared with $650,000 last year. The following table summarizes the Fixed and Special Projects costs for EBDA.

Facility and Total Variable Cost	**Fixed Cost**	**LAVWMA Percent Cost**	**LAVMWA Estimated Cost**
General Administration	$1,233,262	18.60%	$229,387
Outfall & Forcemains	$31,336	6.51%	$2,040
Marina Dechlor Facility	$49,004	18.60%	$9,115
Oro Loma Pump Station	$43,920	18.60%	$8,169
Bay & Effluent Monitoring	464,550	18.60%	$86,406
NPDES Permit Fee	$555,483	26.62%	$147,888
RMP Fee	$280,000	18.98%	$53,151
Nutrients Fee	$269,479	14.90%	$40,167
Disinfection Master Plan & Contingency	$62,246	7.28%	$4,533
Total	**$2,989,280**		**$580,856**

Historically, EBDA has averaged approximately 90% of budget for the fixed costs listed above. Accordingly, $523,000 is included in the FY20/21 Budget.

2.2.4 Fixed Costs - Administration & Management

This section includes general administration, program management, legal and financial services, consulting services, permits, insurance, etc. The proposed budget is $468,400 as compared with $290,000 last year or an increase of 44.28%. The increases are due to the following: 1) NPDES permit renewal (occurs once every five years); 2) negotiation of the new EBDA Master Agreement; 3) projected 42% increase in insurance costs; and 4) management of the long list of capital projects. The NPDES permit renewal process began last year and will continue into FY2020/21. There are also costs for consulting services for technical assistance for the permit renewal, upgrading the website, records management, and assistance in enhancing the asset management program. The website updates and records management projects have been delayed by the flooding of DSRSD's main office as well as COVID-19. The asset management program is linked to DSRSD's efforts for their own system. Asset Management made great strides this past year and will continue to be a key project this year and will have an impact on the Capital Program Funding as discussed below. Costs for travel expenses for the General Manager for two CASA Conferences and other required training for the General Manager and Administrative Assistant are included in these costs.

2.2.5 Capital Program Funding

This category includes the projected FY2020/21 debt service (repair and expansion) for 2011 bonds. Although repair and expansion of the existing pipeline and the EBDA capacity purchase are capital costs, the associated debt service and funding program costs are tabulated in the operating budget to assist member agencies with their rate and fee calculations. The projected debt service includes payment of both principal and interest. It is recommended that the annual $400,000 deposit to LAVWMA's capital facilities Joint renewal replacement account be continued to help cover the $3,951,000 cost of capital projects in FY2020/21. It is acknowledged that it may not be possible to complete all of the capital projects this fiscal year. However, it is best to get them on the list so that proper planning and scheduling can occur. Dual Use facilities are minimal and have adequate replacement funds.

The first table below lists the capital projects that will be completed by the end of FY2019/20. The second table lists all recommended projects for FY2020/21. All projects have been recommended and vetted by DSRSD staff.

FY2019/20 Capital Program Expenditures	
Rebuild three pumps and their associated motors	$0
Resealing of all Three Storage Basins	$0
San Leandro Sample Station Assessment, surge valve replacement, flow meter replacement	$0
MCCs and soft starters	$35,000
Road Drainage Improvements	$0

LAVWMA FY2020/21 Budget

Other Misc. LAVWMA Renewal/Replacements	$90,000
Other Misc. EBDA Renewal/Replacements	$0
CIP Planning/Management Contingency	$0
Total Expenditures	**$125,000**

FY2020/21 Capital Program Expenditures		
Project	**Description**	**Cost**
Rebuild three pumps and their associated motors.	Due to COVID-19 issues, this project has been delayed from FYE20. Bids have been received for both premium efficiency and regular efficiency pump rebuilds. Since the costs are approximately the same, premium efficiency will be used. The associated motors will also be rebuilt resulting in essentially a new pumping system. It is possible that this project may begin before the end of FYE20, but the payments will be made in FYE21.	$216,000
Resealing of all three Storage Basins	Due to COVID-19 and staffing issues, this project is being carried over from FYE20. The basins need to be resealed approximately every ten years. GPS analysis did not show any settling. The rebar has been cut off even with the decks and the basins are ready to be sealed. The project will be combined with sealing of DSRSD's storage basins, which may result in some cost savings.	$200,000
San Leandro Sample Station (SLSS) Design Improvements	This project has evolved from what was described for last year's budget. It also now includes the surge valve replacement included in last year's budget. EBDA agreement issues and the capacity issues study have shown that the SLSS needs significant improvement. Since it is likely that more frequent discharges to San Lorenzo Creek will be permitted under the new EBDA agreement, the control system on the SLSS needs to be as robust as possible. The SLSS station has to be designed to measure chlorine residual and monitor pH continuously. These parameters have to be measured both when effluent is going to EBDA and when effluent is dechlorinated and	$175,000

LAVWMA FY2020/21 Budget

FY2020/21 Capital Program Expenditures		
Project	**Description**	**Cost**
	diverted to San Lorenzo Creek during wet weather events or during system testing. Composite samples of LAVWMA's effluent need to be taken when its directed to both EBDA and San Lorenzo Creek. Grab samples of LAVWMAs Effluent also need to be collected for Bacteriological analysis in both situations. The design of the SLSS is complicated by the following factors: 1) The discharge to San Lorenzo Creek wet weather outfall is rare; 2) During normal daily operations the LAVWMA pumps shut off during peak demand periods and therefore the pipeline is not full during those times; 3) The station is not staffed continuously. The goal of this project is to work with operational staff and the RWQCB to design the station to meet operational, maintenance and regulatory expectations in a manner which creates as little day to day maintenance as possible.	
Pump Station Motor Control Center (MCC) and Soft Starter Upgrades	In last year's budget this was described as a two-year project. COVID-19 issues have delayed the design portion of the project. DTN Engineers is under contract for the design and technical support during construction. The final Engineer's Estimate was $2,300,000 - $2,500,000. The original estimate was $1,065,000. The increased costs are due to the following: 1. Added two auxiliary medium voltage MCCs to handle the power factor corrections automatically. 2. Added additional enhanced protection features to the existing main power distribution switchgear and sole sourced Eaton for all of this enhanced work. Specified Eaton to provide software configuration for the Power Quality SEER for communication with the new starters. Current starters do not have any digital	$2,500,000

LAVWMA FY2020/21 Budget

FY2020/21 Capital Program Expenditures		
Project	**Description**	**Cost**
	communication with the existing power distribution network. This will match systems at DSRSD making operation and maintenance standardization. 3. Added motor winding insulation monitoring system as a customized feature so that staff does not have to shut down the pump to monitor the health of the motor windings. These systems monitor when pumps run or are off. 4. Added control panel modifications to replace existing Eaton RTD modules with new RTD controllers, and also added a fiber link from the pump pad to the building control panel. Required all these RTD controllers digitally communicate back to the PLC for data monitoring and alarm. 5. Miscellaneous items: a. Modifications of the existing doors into the electrical room. b. Redo the stairs at the control panel to accommodate new conduit runs. c. Customized switchgear dimensions to fit the existing cable/conduit terminations. d. Added a Storage bin for staff to store electrical parts. 6. Added Construction Management Services to ensure proper oversight of the project. DSRSD does not have adequate staff at this time to provide internal Construction Management Services.	
Road Drainage Improvements at the LAVWMA Pump Station	Included in last year's budget, this project has been delayed due to COVID-19 and staffing issues. It will be combined with similar projects for DSRSD, which may result in some cost savings. This project will improve road drainage north of the storage basins.	$35,000

LAVWMA FY2020/21 Budget

FY2020/21 Capital Program Expenditures		
Project	**Description**	**Cost**
Cathodic Protection Projects	A survey is conducted every year on the cathodic protection system. Surveyors typically identify areas that need improvements. In recent years additional sections of pipeline have been checked resulting in significant improvements needed this year. There are eight routine projects to be completed for a total of $23,700. In addition, there are three more complex projects that need to be completed at a total cost of $160,000. They include 1) One of the parallel pipelines needs high resistance bond repairs as high resistance connections have been observed. This project will result in new bonding cables terminated at anew test station to be monitored in future annual surveys; 2) Livermore interceptor electrical discontinuity repairs. Two sections of this pipeline have been determined to be lacking cathodic protection, which will be installed resulting in a new test section; 3) Emergency Discharge Lateral Discontinuity Repairs. A section of this segment is without cathodic protection which needs to be installed resulting in a new test section for future surveys. All three of these projects require excavation which increases the costs.	$185,000
PLC Upgrade at the Pump Station	The existing Programmable Logic Controller (PLC) at the pump station is almost 20 years old and is near the end of its useful life. It is an OPTO22 system and needs to be upgraded to Allen Bradley PLC to match the PLCs used by DSRSD. An upgrade to the OPTO22 system at the San Leandro Pump Station is already complete. This is a complex project that requires engineering design, equipment, installation, and construction support. Upon completion the system will be consistent with that of DSRSD improving operation and performance. It	$300,000

LAVWMA FY2020/21 Budget

FY2020/21 Capital Program Expenditures		
Project	**Description**	**Cost**
	will also be helpful with managing the system under the likely terms of the new EBDA agreement. This project was recommended by the 2016 Pump Station Evaluation Report.	
Pipeline Inspection	The pipeline inspection being conducted through the Pump Station Risk Analysis and Pipeline Inspection Project will result in recommendations for additional inspection of sections of the pipelines that were not addressed through that project. The pipeline is extraordinarily complex with many siphon sections that go under major highways or are very deep underground. Inspecting these sections is difficult and will require coordination between staff and contractors. This project will allow inspection of additional sections to contribute to development of a reliable remaining useful life of the most valuable asset in the system.	$100,000
Electrical Improvements to the Main Switchgear at the Pump Station	This project will improve the original equipment at the pump station. It includes upgrading to multi-function relays at the main service switch gear, which will require some design and interfacing with PG&E. It also includes adding time delay/remote close/trip switches for the main breakers to reduce the arc flash hazard to staff. Both of these items were recommended by the 2016 Pump Station Evaluation Report.	$50,000
Smart Detectors on High Maintenance Air/Vac and Air Release Valves	This project would install Smart Detectors on pipeline vaults with high maintenance air/vac and air relief valves. The Smart Detectors would monitor the depth of the vault if an Air Relief Valve or Combination Valve fails or begins to leak water into the vault. The detector would recognize the level in vault is rising with water, and then send a signal/alarm to Operations which may prevent a spill to storm drains or creeks along the length of the pipelines. It will help to ensure	$40,000

FY2020/21 Capital Program Expenditures		
Project	**Description**	**Cost**
	compliance with Regional Board Sanitary Sewer Overflow requirements.	
Other Misc. LAVWMA Renewal/Replacements	As needed	$50,000
Other Misc. EBDA Renewal/Replacements	As needed	$50,000
CIP Planning/Mgmt./Contingency	As needed	$50,000
Total Expenditures		**$3,951,000**

2.3 Changes from FY2019/20 Budget

FY2019/20 expenditures are projected to come in approximately 6.0% above budget due power and payment for EBDA's OPEB/Pension costs. The annual reconciliation process will resolve any over or under payments. The FY2020/21 Budget is 2.26% more than FY2019/20 in Total Revenue Requirement. Total O&M costs are 8.41% more that was budgeted last year.

3.0 CAPITAL BUDGET

3.1 Description of Budget

The Capital budget includes all costs associated with renewal and replacement of existing capitalized facilities. From 2001 to 2010 the 2001 Series A bond funds were the primary source of LAVWMA's capital expenditures. The bond funds were closed out in June 2011. As of July 2011 and for the foreseeable future the only source of capital funding will be the Renewal & Replacement Funds that have been established for Joint Use, Dual Use and Sole Use Facilities. The table below depicts the projected fund balances during FY2019/20.

R & R Fund Balances	Joint	Dual	Sole	Total
Start of year	15,303,879	420,340	1,573,615	17,297,834
Deposits	400,000	0	0	400,000
Interest Earnings	450,000	7,566	28,325	485,891
Proposed Expenditures	(3,951,000)	(0)	(0)	(3,951,000)
End of Year	12,202,879	427,906	1,601,940	14,232,725

As discussed previously, it is recommended that the annual contribution to the R&R Fund be continued at the $400,000 level. The following table for the last several years plus the estimated data for FY2018/19 and recommendations for FY2019/20 show that LAVWMA maintaining the Joint Use R&R Fund at a sustainable level since FY2010/11. Due to the increased costs for the MCC Project the annual contribution should be reviewed in the next budget.

R&R Joint Use History				
Fiscal Year	**Contributions**	**Interest**	**Expenses**	**Net**
FY2010/11	0	84,873	(245,065)	(160,192)
FY2011/12	300,000	51,626	(411,885)	(60,259)
FY2012/13	300,000	45,064	(353,404)	(8,340)
FY2013/14	300,000	36,396	(119,955)	216,441
FY2014/15	300,000	40,479	(439,073)	(98,594)
FY2015/16	400,000	62,652	(336,712)	125,940
FY2016/17	400,000	109,563	(600,000)	(90,437)
FY2017/18	400,000	225,160	(154,000)	471,160
FY2018/19	400,000	494,626	(309,115)	585,511
FY2019/20	400,000	500,000	(125,000)	775,000
FY2020/21	400,000	450,000	(3,951,000)	(3,101,000)
Total	**3,600,000**	**2,100,439**	**(7,045,209)**	**(1,344,770)**

3.2 Discussion of Capital Expenditures Proposed for FY2019/20

The following table summarizes $3,951,000 of anticipated FY2020/21 capital expenditures on the renewal and replacement of LAVWMA and EBDA facilities. More detailed descriptions are included in Section 2.2.5, Capital Program Funding.

FY2020/21 Capital Program Expenditures ***Carryover**	
*Rebuild three pumps and their associated motors	$216,000
*Resealing of all Three Storage Basins	$200,000
*San Leandro Sample Station Design Improvements	$175,000
*MCCs and soft starters	$2,500,000
*Road Drainage Improvements	$35,000
Cathodic Protection Projects	$185,000
PLC Upgrade at the Pump Station	$300,000
Pipeline Inspection	$100,000
Electrical Improvements to Main Switchgear	$50,000
Smart Detectors on High Maintenance Pipeline Valves	$40,000
Other Misc. LAVWMA Renewal/Replacements	$50,000
Other Misc. EBDA Renewal/Replacements	$50,000
CIP Planning / Management Contingency	$50,000
Total Expenditures	**$3,951,000**

LAVWMA FY2020/21 Budget

4.0 FY2020/21 Member Agency Cost Sharing & Schedule

Member Agency Costs FY2020/21			
	Total	**Livermore**	**DSRSD/Pleasanton**
Variable O&M	$ 1,391,000	$ 486,850	$ 904,150
Fixed O&M	1,929,400	580,750	1,348,650
Sole Use Fixed O&M	25,000	25,000	
Total O&M	3,345,400	1,092,600	2,252,801
Replacement Fund	400,000	120,400	279,600
Repair Debt	2,438,659	974,244	1,464,414
Expansion Debt	5,567,442	1,253,788	4,313,654
EBDA Debt	-	-	-
Total Capital Costs	8,406,100	2,348,432	6,057,669
Total Revenue Required	**$ 11,751,500**	**$ 3,441,031**	**$ 8,310,469**
Semi Annual O&M Advance	1,672,700	546,300	1,126,400
Semi Annual Replacement Fund Advance	200,000	60,200	139,800
EBDA Debt Advance, July 1	-	-	-
July 1 Bond Debt Service Advance	6,414,363	1,785,065	4,629,298
Jan 1 Bond Debt Service Advance	1,591,738	442,968	1,148,770
Total July 1 Advance	$ 8,287,063	2,391,564	5,895,498
Total January 1 Advance	$ 3,464,438	$ 1,049,467	$ 2,414,970
Percentages			
Variable O&M		35.00%	65.00%
Fixed O&M		30.10%	69.90%
Replacement Fund		30.10%	69.90%
Repair Debt		39.95%	60.05%
Expansion Debt		22.52%	77.48%

5.0 Budget Trends FY2013/14 – FY2020/21

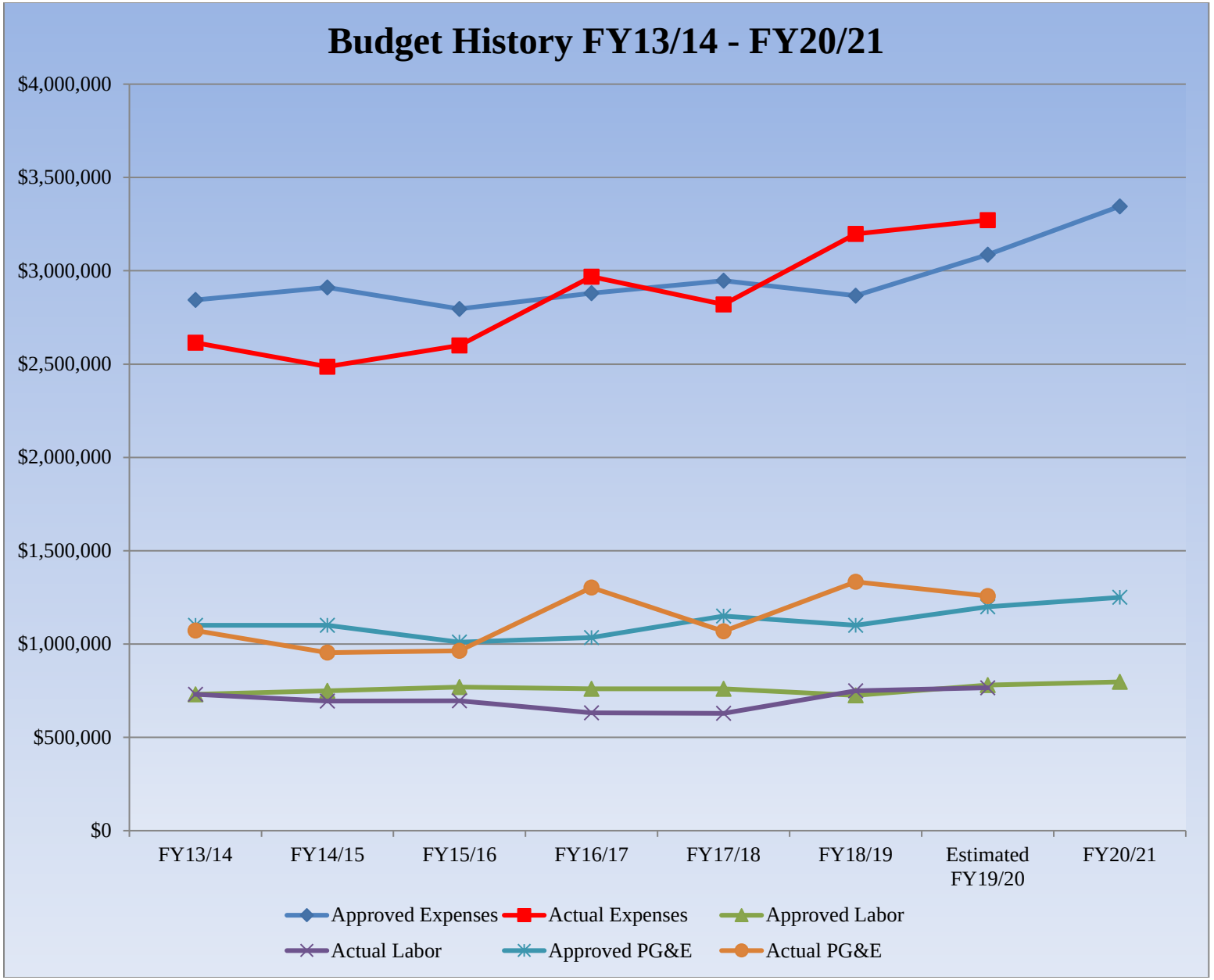
The following charts show expense trends from FY13/14 through FY20/21. The charts show the following:

- Approved versus actual expenses for total expenses, labor costs, and PG&E power
- Estimated versus actual export flow
- Estimated versus actual cost per million gallons

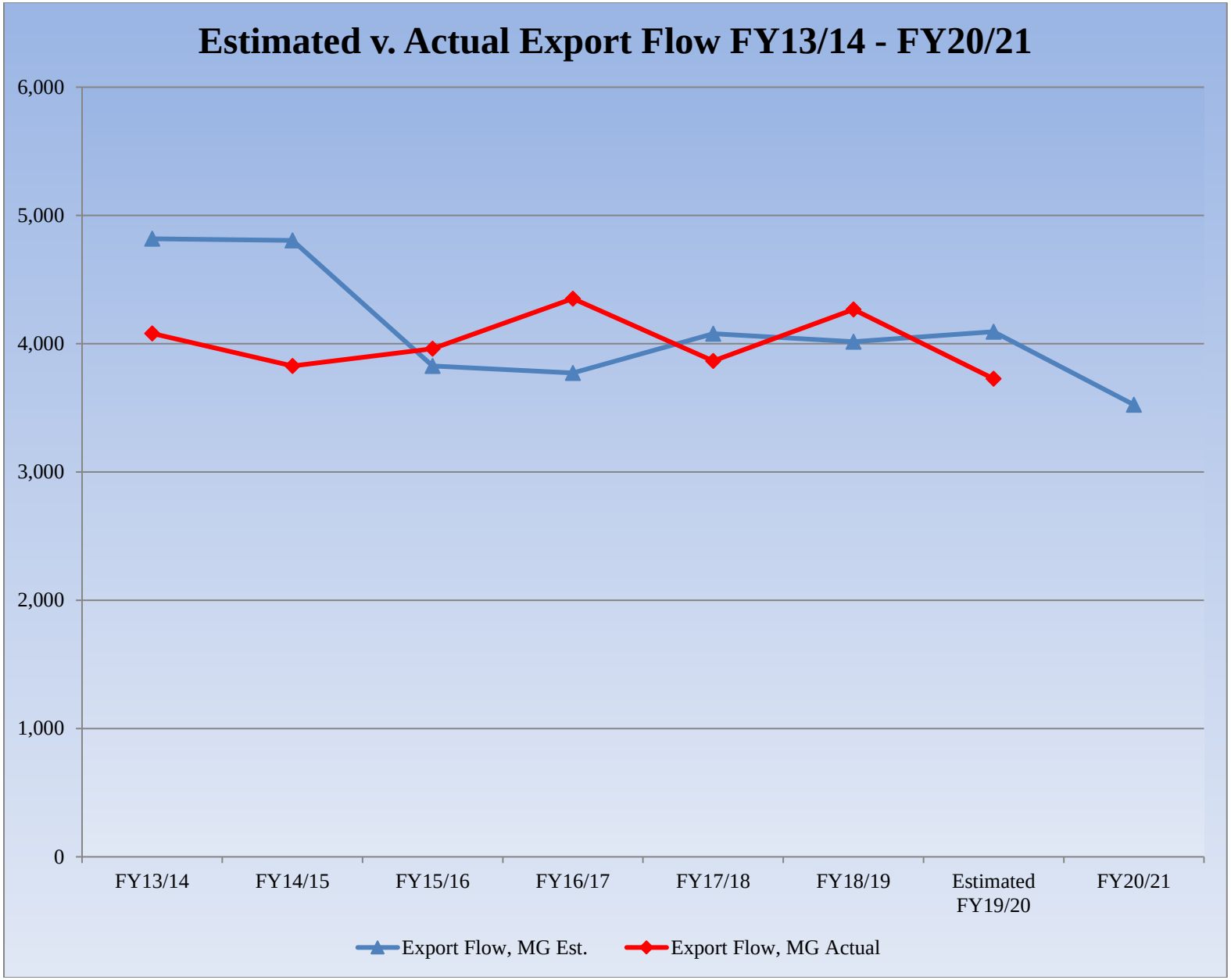
Beginning with the FY2019/20 budget, these charts have been modified from previous presentations. The costs shown are total costs as in the approved budgets, which also include costs for EBDA. Previously, EBDA costs were not included. As a consequence, the cost per million gallons is going to be higher than the costs shown in DSRSD's Quarterly reports. The cost for just pumping over the Dublin Grade is approximately $612/MG, while the full disposal cost, including EBDA costs is approximately $749. Although flow and PG&E costs are directly

linked, other factors such as fixed costs for labor and equipment repair generally increase at the rate of inflation or CPI, resulting in increasing cost curves. Export flow is decreasing over time due to water recycling efforts.

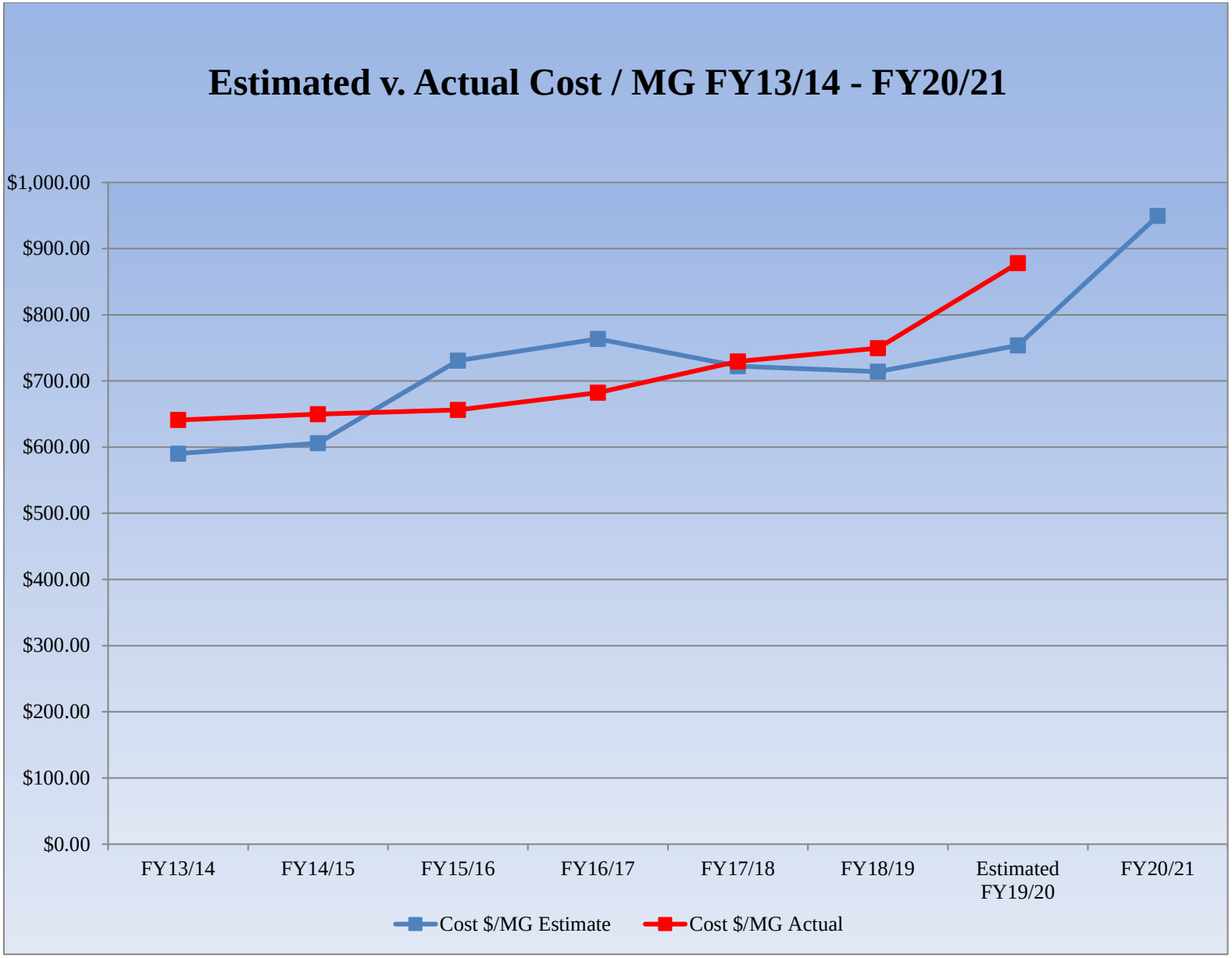
LAVWMA FY2020/21 Budget



LAVWMA FY2020/21 Budget



LAVWMA FY2020/21 Budget



Agenda Explanation
Livermore-Amador Valley
Water Management Agency
Board of Directors
November 18, 2020

ITEM NO. 12 APPROVAL OF A RESOLUTION AWARDING AN AGREEMENT FOR THE EXPORT PUMP STATION – MCC REPLACEMENT PROJECT TO VELLUTINI CORPORATION DBA ROYAL ELECTRIC COMPANY

Action Requested
Approve Resolution 20-04 Awarding an Agreement for the Export Pump Station – MCC Replacement Project to Vellutini Corporation DBA Royal Electric Company

Summary
Please refer to the Discussion in Agenda Item No. 10 regarding the recommendation to award an agreement to Royal Electric Company for the MCC Replacement Project. They are the lowest responsive and responsible bidder at a cost of $2,222,222.

Recommendation
It is recommended that the Board approve Resolution 20-04 Awarding an Agreement for the Export Pump Station – MCCC Replacement Project to Vellutini Corporation dba Royal Electric Company.

Attachment
Resolution No. 20-04 Awarding an Agreement for the Export Pump Station – MCC Replacement Project to Vellutini Corporation dba Royal Electric Company.

Livermore-Amador Valley Water Management Agency

RESOLUTION NO. 20-04 AWARDING AN AGREEMENT FOR THE EXPORT PUMP STATION – MCC REPLACEMENT PROJECT TO VELLUTINI CORPORATION DBA ROYAL ELECTRIC COMPANY

WHEREAS, the Livermore-Amador Valley Water Management Agency ("LAVWMA") is a joint powers agency comprised of the cities of Livermore and Pleasanton and the Dublin San Ramon Services District;

WHEREAS, on October 16, 2020, LAVWMA issued a Notice Inviting Bids for its Export Pump Station – MCC Replacement Project (Project No. LAVWMA-2021-2) ("Project");

WHEREAS, on November 10, 2020, LAVWMA publicly opened the four bids received in response to the Notice Inviting Bids;

WHEREAS, of the four bids received, Vellutini Corporation dba Royal Electric Company submitted the lowest bid, in the amount of $2,222,222;

WHEREAS, LAVWMA has determined that Vellutini Corporation dba Royal Electric Company is the responsible bidder that submitted the lowest responsive bid for the Project; and

WHEREAS, the Board of Directors considered awarding the project to Royal Electric Company at a duly noticed regular meeting held on November 18, 2020.

NOW, THEREFORE, BE IT RESOLVED that the Board of Directors of LAVWMA hereby awards the contract for the Project to Vellutini Corporation dba Royal Electric Company and authorizes the General Manager to execute an agreement for the Project, in a form approved by the General Counsel, at a cost not to exceed the amount of $2,222,222 and take all other actions as may be reasonably necessary to carry out the Project.

DULY AND REGULARLY ADOPTED by LAVWMA's Board of Directors this __ day of November 2020 by the following vote:

AYES:
NOES:
ABSENT:

_____
Bob Woerner, Chair

ATTEST: _____
Charles V. Weir, General Manager

Agenda Explanation
Livermore-Amador Valley
Water Management Agency
Board of Directors
November 18, 2020

ITEM NO. 13 STATUS REPORT ON NEGOTIATIONS WITH EAST BAY DISCHARGERS AUTHORITY FOR A NEW MASTER AGREEMENT AND CONSIDERATION OF THE APPOINTMENT OF A BOARD SUBCOMMITTEE AND AUTHORIZATION OF A POTENTIAL EXTENSION OF THE MASTER AGREEMENT

Action(s) Requested
That the Chair appoint a Temporary Ad Hoc Subcommittee to provide input on EBDA negotiations on behalf of the full Board regarding a new Master Agreement. That the Board authorize another extension of the Master Agreement for a period of up to 6 months.

Summary
The Master Agreement with East Bay Dischargers Authority expired on January 1, 2020. It has twice been extended through June 30, 2020 and December 31, 2020. Negotiations have been ongoing at the attorney level as well as the staff level. Some progress has been made, but there are outstanding issues that include capacity rights, fixed costs, which EBDA facilities should LAVMWA share in the costs, term and extension of a new agreement, chlorine residual issues, and brine discharge issues. Numerous term sheet documents have been traded back and forth with some progress having been made. Recently, the two General Managers as well as the DSRSD Assistant General Manager began discussion issues. As a result of these efforts, a better understanding of each agencies' issues has been accomplished. An additional meeting has been scheduled and future meetings are likely to continue. At this point, it may be appropriate for the Chair to appoint a subcommittee to discuss the term sheet negotiation issues with staff as well as meet with representatives from EBDA.

Given that the current Master Agreement is set to expire at the end of this year and there are no more regularly scheduled LAVWMA Board meetings in 2020, staff is requesting that the Board authorize the General Manager to execute another extension of up to 6 months. While LAVWMA is working diligently to achieve consensus with EBDA on a new agreement, the progress has been hampered by the complexity of the issues, reduced staffing and availability due to coronavirus, the need to engage consultants to model changes in capacity (see agenda item 10), and the nature of both parties being joint powers authorities comprised of multiple separate public agencies. To be clear, EBDA has not offered an extension and wants to avoid delays, as their own amended JPA went into effect July 1, 2020. LAVWMA respects this position, but also recognizes that the new Master Agreement will govern the ability of LAVWMA to discharge its wastewater for 20 years or more. As a result, the General Manager, General Counsel and LAVWMA Staff Advisory Group (SAG) have expressed a preference for fully vetting the issues. Authorizing an extension at this regular Board meeting will provide the General Manager with flexibility to enter into such an agreement, if EBDA is willing to do so. It would allow negotiations to continue and avoid the need to potentially call a special meeting of this Board before the end of the year, which could be difficult to coordinate given the upcoming holidays.

Recommendation
It is recommended that the Chair appoint a Temporary Subcommittee to provide input on negotiations and make a recommendation to the full Board regarding a new Master Agreement with EBDA. To be considered an "ad hoc committee" under the Brown Act, the committee should be comprised solely of less than a quorum of the Board (up to 3), have limited subject matter jurisdiction (providing input on EBDA Master Agreement negotiations), and no fixed meeting schedule.

It is also recommended that the Board vote to authorize the General Manager to execute an extension of the Master Agreement with EBDA for up to six months, in a form approved by the General Counsel, and take all actions as may be reasonably necessary to carry out that agreement.

Agenda Explanation
Livermore-Amador Valley
Water Management Agency
Board of Directors
November 18, 2020

ITEM NO. 14 UPDATE AND RESPONSE TO VARIOUS LEGAL AND LEGISLATIVE ISSUES

Action Requested
None at this time.

Summary
California Association of Sanitation Agencies (CASA) updated its bill tracking list on March 13, 2020. That list was included in the May 20, 2020 Agenda packet. **Attachment No. 12.a** is the CASA State Legislative Update dated October 6, 2020. There are only a handful of bills listed in this report as it is noted that due to COVID-19 the Legislature was not very active this year.

Attachment No. 12.b is CASA's Regulatory Update – Water, produced in October 2020. There are several items of interest including two that are specific to PFAS and one for microplastics.

The CASA website maintains a special website for COVID-19 related information, including agency planning and operations, worker safety, state actions, federal actions, how to remain in compliance, links for responses, communication tools, research, and emergency assistance from FEMA and CalOES. This information is available at the following link:
https://casaweb.org/covid-19/

California Special Districts Association (CSDA) is also tracking hundreds of bills on behalf of special districts. The bills of most interest to wastewater agencies are the same ones being tracked by CASA. One of the bills of interest to independent contractors such as the General Manager is AB2257, Gonzalez – Worker classification: employees and independent contractors: occupations: professional services. This bill was approved by the Governor on September 4, 2020. This bill resolves the concern that the General Manager could be an employee and not an independent contractor.

Another useful summary is BACWA's Key Regulatory Issue Summary, **Attachment No. 12.c**. This summary is updated every few months and provides useful information for Bay Area wastewater agencies.

At the last Board meeting, we discussed a variety of Executive Orders issued by California's Governor that required sheltering in place and allowed public agencies to conduct meetings remotely without following the onerous requirements in the Brown Act for teleconferences. The pandemic has continued and therefore, these orders remain relevant. Most agencies are reporting that conducting meetings remotely has increased public participation and transparency. There is an interest for public agencies to continue making the meetings available to the public in this manner, even if the officials return to Board chambers. In order to make remote meetings

permissible outside the pandemic, the Legislature would need to amend the Brown Act. We will monitor the legislative activity to see if such a bill is proposed.

AB 992 amended the Brown Act to clarify which types of social media communications public agency officials can engage in and which are prohibited. In short, the new law prohibits members of a legislative body from using social media to discuss official business "among themselves," which includes making posts, commenting, and using digital icons that express reactions to communications made by other members of the legislative body. The result is that even minor interactions such as liking a fellow board member's Facebook post about LAVWMA business could potentially violate the law.

Recommendation
There is no recommendation at this time.

CASA State Legislative Update – 10.6.20

- 

2020 Legislative Session Wrap-up

The final deadline for Governor Newsom to sign or veto all legislation sent to him in 2020 was Wednesday, September 30. There were notably fewer bills in the mix this year after the COVID pandemic forced the legislature to pare down legislative business significantly. The Governor signed 457 bills and vetoed 56 in 2020: a stark contrast to the 1169 signed and 172 vetoed in 2019. Due to the disruption in the legislative process, there were many bills pertaining to policy issues of interest to CASA that were held over for future consideration this year. Nonetheless, there were a handful of bills that were signed that are of interest, including the following:

AB 2560 (Quirk): Notification and Response Levels: Procedures

This bill requires the State Water Resources Control Board to both email stakeholders and post on its website when it has initiated the development of a Notification Level (NL) or Response Level (RL) for a contaminant, and would further require the notification to stakeholders include both the draft NL or RL and supporting documentation. CASA supported this legislation.

AB 2762 (Muratsuchi): Toxic Free Cosmetics Act of 2020

This bill prohibits, beginning January 1, 2025, the manufacture, sale, delivery, holding, or offering for sale in commerce of any cosmetic product containing specified intentionally added ingredients, conforming with existing policy in the European Union. Notably, the list of banned ingredients includes several CEC's of interest to the water industry, including PFAS, PFOS, PFOA and Mercury. CASA supported this legislation.

AB 3163 (Salas): Biomethane Procurement

This bill expands the definition of "biomethane" to include methane that is produced from the non-combustion thermal conversion of eligible biomass feedstock, including sewage sludge and biosolids, for purposes of the California Public Utilities Commission's (CPUC) consideration of adopting biomethane procurement targets. This bill was sponsored by the Bioenergy Association of California and CASA actively supported this legislation.

SB 865 (Hill): Subsurface Installations

This bill makes a number of changes to the Dig Safe Act of 2016 (Act) including requiring new subsurface installations be mapped using a geographic information system (GIS); renaming the California Underground Facilities Safe Excavation Board as the "Dig Safe Board"; and requiring an excavator to notify the Regional Notification Center (RNC) within 48 hours of discovering or causing damage, among other things. CASA had a "watch" position on this legislation.

SB 1044 (Allen): PFAS: Advanced Fire Fighting Foam

This bill prohibits the manufacture, sale, distribution, and use of class B firefighting foam containing per- and polyfluoroalkyl substances (PFAS chemicals) by January 1, 2022, with some

exceptions, and requires notification of the presence of PFAS in the protective equipment of firefighters. CASA supported this legislation.

SB 1320 (Stern): California Climate Change Assessment
This bill directs the Governor's Office of Planning and Research (OPR), through the Integrated Climate Adaptation and Resiliency Program (ICARP), to complete a California-specific climate change assessment no less frequently than every five years to assess the impacts and risks of climate change and identify potential solutions to inform legislative policy. CASA had a "watch" position on this legislation.

SB 1473 (Senate Governance and Finance Committee): Omnibus
This bill makes non-controversial technical and clarifying changes to statutes within the purview of the Senate Governance and Finance Committee. This year's omnibus bill includes an amendment requested by CASA to the statutes enacted by AB 1483 in 2019, and those changes clarify what types of rate and fee information water and wastewater agencies are required to post to their websites. CASA supported this legislation.

All of these bills become effective on January 1, 2021. A complete list of bill positions and dispositions for the 2019-20 Session is available here.

By Cheryl MacKelvie October 5th, 2020 Hot Topics|Comments Off

CASA Regulatory Update – WATER

SWB Set to Release Final Draft of the Toxicity Provisions on October 30
On October 30, the State Water Resource Control Board (State Water Board/SWB) will release the final materials in support of the revised toxicity provisions. CASA submitted a comment letter on August 24 to the State Water Board on the second draft of the revised Toxicity Provisions and updated Staff Report that were released on July 7. The provisions will establish numeric water quality objectives for both acute and chronic toxicity and a program of implementation for dischargers to surface waters to control toxicity. Staff's summary of the changes is available here, and their analysis of Economic Considerations for the regulations and draft Response to Comments upon the 2018 draft are each hyperlinked. Staff held a workshop on July 29 to review the revisions for which the presentation is available here and the video is archived here. CASA's toxicity subgroup will convene on October 9 to discuss developments in advance of the final version. Please reach out to Jared Voskuhl if you have comments or questions.

October 16 Due Date for 2024 Integrated Reports – Supplemental Info Will Be Due October 30
Your data for the 2024 integrated reports will be due to the State Water Board on October 16, 2020. After initially requiring the data to be submitted to CEDEN, the State Water Board will allow for it to be submitted through CIWQS. However, the State Water Board will need supplemental information to assist the datasets assessment, so in the next week, you should expect to see an additional letter from the SWB noticing what they need, which likely will include a summary of the dataset (e.g. facility name, sample sites, data types), information about data quality, and a contact person for follow up questions, as well as ask respondents to access an online tool to confirm or provide us with station location information (latitude, longitude, datum). Please reach out to Lori Webber at the State Water Board if you have questions.

SWB Sets Water Quality Fees for 2020-21
On September 15, the State Water Board adopted its 2020-21 fee schedule, and WDR fees will increase by 8.5% and NPDES fees by 9.3%. While Staff had indicated in June before the final negotiated budget that their intent was not to increase fees this year at all, Staff noted at their August 6 workshop that it may not be possible, and requested stakeholder input on a few different scenarios.

CASA submitted comments in August to the SWB on the different options presented (p. 8) to phase in the increases for permittees, recommending option A. In September, in the formal meeting materials for adoption, Staff recommended the Board adopt Option C, and CASA submitted further comments and testified to the Board on this, as well. Ultimately, after a lengthy deliberation during the Board meeting, the State Water Board selected option B. We are appreciative for the Board adopting the middle position and to our members for their engagement on this issue over the last 9 months.

SWB Release PFAS Sampling Guidelines and a General Order for Drinking Water Monitoring
In July, the State Water Resources Control Board (State Water Board) released its Investigative Order of PFAS at publicly owned treatment works. On September 9, the State Water Board released additional PFAS Sampling Guidelines for Non-Drinking Water matrices to assist POTW's collections of samples for analysis with nonapproved methods. If you have questions about complying with the Order, you may review the State Water Board's excellent FAQ for nondrinking water sampling or reach out to Wendy Linck on the State Water Board team.

Additionally, on August 27, after the first year of sampling was completed by public water systems under the investigative order, the State Water Board issued a General Order for continued monitoring to agencies that had detections in Phase 1.

Clean Water Summit Partner's Host PFAS Workshop – Presentations Available Online
On September 16, the Clean Water Summit Partners hosted a PFAS Workshop on the State Water Board's Investigative Order. There'll be an event page soon with the materials archived, but for now, you may view hyperlinked videos of the different speakers' presentations: Ryan Batjiaka (SFPUC/PFAS in Biosolids), Tom Bruton (GSPI/Background on PFAS), Scott Hatton (R5/Groundwater Monitoring Plans), David Kaminski (QED/Water Sampling Equipment Option), Wendy Linck (SWB/Investigation and Q&A), Taryn McKnight (Eurofins/Analytical Methods), Steven Mullery (SWB/Geotracker Data Entry), Jacob Oaxaca (SWB/Accreditation of Nonapproved Methods), Open Q&A Moderated by Steve Jepsen.

SWB and OPC Reconvenes Science Advisory Panel on CECs in Aquatic Ecosystems
The week of October 12, the State Water Board and Ocean Protection Council (OPC) will kick-off their reconvening of the Science Advisory Panel on Constituents of Emerging Concern (CECs) in Aquatic Ecosystems to review existing scientific literature and determine the state of current scientific knowledge on the risks of CECs impacting human health and the environment in freshwater, coastal, and marine ecosystems of the State, and to update 2012 recommendations to the State Water Board to improve the understanding of CECs to protect public health and the environment.

The Southern California Coastal Water Research Project (SCCWRP), is managing the Panel and will be hosting a series of public meetings via Zoom Monday through Thursday, October 12 - 15 from 8am to 10am each morning. The meetings will include technical presentations for the Panel's consideration, and the agenda for the series includes CEC management approaches, scientific advances in the field, and intended use of panel products. This series is free and open to the public, and you may register here.

SWB and OPC Hosting Microplastics Webinar on Health Effects and Management Thresholds
Beginning October 19 for five consecutive Monday mornings, the State Water Board and the OPC will host a virtual series of meetings with SCCWRP, the San Francisco Estuary Institute (SFEI), and the University of Toronto about the health effects of microplastics that will serve as an initial step toward developing microplastics management thresholds for California in both aquatic ecosystems and drinking water. This webinar series is free and open to the public and

will take place over Zoom. Participation space is limited, but a recording will be available. You may register for it here.

CASA Submits Comments on the SD R9 Board's Revised Biological Objectives
On August 14, the San Diego Regional Water Board released revisions to the proposed Basin Plan Amendments (BPA). On September 4, CASA and CVCWA submitted comments, which you may view here. The adoption hearing originally was scheduled for October 14, but it has been postponed until the November or December board meeting for unrelated reasons. The final language and response to comments will be released approximately 30 days before the BPA is scheduled for adoption. Board staff are available to discuss the proposed revisions, and you should reach out to Chad Loflen to arrange meeting.

CASA Submits Comments on US EPA WQ Criteria for Lakes and Reservoirs
On August 19, CASA and CVCWA submitted comments on the US EPA's draft numeric nutrient criteria recommendations for lakes and reservoirs, urging their incorporation of a holistic watershed approach to a unique problem which cannot be addressed by relying on the traditional regulatory tools. NACWA also submitted extensive remarks which are available here.

CASA Submits Comments on US EPA Grant Program for Overflows
On September 3, CASA submitted comments to the US EPA for a proposed rulemaking that would update the formula and bases for awards from a small, $28 million, grant program intended for remedial projects related to different types of overflows. NACWA also submitted comments which are available here.

US EPA Proposes Updated Guidance to Financial Capability Assessment – Comments Due 10/19
On September 18, the US EPA released an updated guidance on financial capability assessments (FCA) in order to move past the 1997 FCA Guidance and the 2014 FCA Framework. Per the federal register notice, comments are due by October 19, 2020. In a 2019 report by NACWA, AWWA, and WEF that was submitted to US EPA, new metrics were outlined that are partially included in the new proposal (in combination with some old approaches). The proposed 2020 guidance for FCA embraces stakeholder priorities and provides tools to more easily articulate local financial circumstances, while advancing the mutual goal to protect clean water. When finalized, EPA expects to use the 2020 FCA to support negotiations of schedules for implementing CWA requirements for municipalities and local authorities. EPA is requesting comment on approaches for assessing financial capability of communities to meet CWA obligations. Please reach out to Adam Link if you have comments or concerns.

US EPA Releases Revised Financial Assistance Regulations – Comments Due 11/30
On September 30, the US EPA released the federal register notice for an interim final rule on uniform administrative requirements, cost principles, and audit requirements for Federal awards. This regulatory action revises certain provisions of Environmental Protection Agency (EPA) financial assistance regulations to provide more flexibility to recipients and streamline dispute procedures for applicants and recipients of EPA financial assistance. The revisions to this rule are exempt from the notice and comment requirements of the Administrative Procedure Act (APA) because it is a matter relating to agency management. Comments are due on November

30, 2020, but the effective date will be November 12 for awards or funds under the final approved revisions. Please reach out to Adam Link if you have comments or concerns.

2020 California Financing Coordinating Committee Virtual Funding Fair
On October 22, the California Financing Coordinating Committee (CFCC) is hosting a free virtual funding fair which will provide opportunities to learn more about available grant, loan, and bond financing options for infrastructure projects from federal, state, and local agencies. The 2020 Funding Fair Handbook is also available here. Representatives from water industry professionals, public works, local governments, and California Native American Tribes should attend, including city managers and planners, economic development and engineering professionals, officials from privately owned facilities, water and irrigation district managers, financial advisors, and project consultants. For more information, please visit the fair website.

Ocean Acidification Models to be Featured at December CWQMC Meeting
The California Water Quality Monitoring Council's December 3 meeting will feature presentations of the different ocean acidification models that researchers in California are developing and utilizing. The Council's last meeting on September 24 included presentations on wastewater based epidemiology, amongst other items on the 9/24 agenda. Please reach out to Jared Voskuhl with any questions.

Sewershed Protection Article in *Science*
The latest issue of *Science* features an article which highlights the intersection of urban reuse projects and industrial discharges to renew the call for protection of sewersheds. Thank you to Eric Hansen from Silicon Valley Clean Water for sharing the piece with CASA. You may review the article online here, but a key takeaway is, "Regulations for sewershed protection must take into account the potential risks that chemicals in the sewershed pose to public health, as well as the cost and effectiveness of existing technologies to purify wastewater to drinking water standards. In sewersheds with higher risk of drinking water contamination due to large volumes of industrial chemical discharges to a sewershed relative to the volume of municipal wastewater, sewershed protection regulations might prohibit potable water reuse or require more extensive treatment and monitoring." Please reach out to Jared Voskuhl if you're interested in dialoguing about the article.

SWB Survey Results of Impacts from COVID-19
Over the summer, CASA and the State Water Board collaborated on developing a survey to gain a better understanding of how COVID-19 has affected the budget and operations of collection systems and wastewater treatment facilities. The State Water Board released the survey in July, and during the State Water Board's August 18 meeting, Max Gomberg provided an initial synopsis on the fiscal impacts. The State Water Board has now provided CASA with the results with agency-specific information removed, and some preliminary analysis follows.

Nearly 275 agencies participated, and 46% reported service revenue loss. Of those 79 agencies provided more specific details about the extent. 66% estimated their service revenue loss was between 0 and 10%, 18% estimated it was between 11 and 20%, and 14% estimated they suffered over 30% percent revenue loss. Likewise for our agencies' customers, 37% of the survey respondents reported an increase in delinquent payments. With regard to wet wipes, 50%

of agencies responded they had experienced a notable increase of them in their system. 25% of agencies reported experiencing system operational personnel shortages, and 22% reported applying for agency relief from FEMA or CalOES. While there is further analysis needed of this information, the immediate portrait it provides of the impacts to California sanitation and collection systems raises concerns. Thank you to all of our members who participated in the survey and partnered with us on to learn about the impacts you're experiencing. Please reach out to Jared Voskuhl if you're interested in the dataset.

WRF Survey of Industry Types in Collection Systems
The Water Research Foundation, in conjunction with Jacobs, Carollo, and Southern Nevada Water Authority, has released a survey (WRF 4960) with approximately 50 questions about industrial pretreatment programs and the types of permitted industries, to understand the impact of industrial contaminants on potable reuse systems. The survey targets publicly available information, and all responses will be reported anonymously. Results from the survey will be sent to each participating utility. Survey responses are due by October 30, and the list of questions are available here. Please reach out to Talia Assi and Tyler Nading, if you have any questions.

WRF Water Reuse Research Survey for US EPA's National Water Reuse Action Plan
The Water Research Foundation also has released a survey, as part of the implementation of Action 2.7.2 of US EPA's National Water Reuse Action Plan, to develop a national water reuse research strategy. You may participate in this survey to gauge the relevance of water reuse research questions to your present and future needs. If your operations span disparate regions, source waters and/or end uses with different needs, you may also forward the survey to an appropriate team member to complete. Please reach out if you have questions to Erin Partlan or Julie Minton who are administering the survey through the Water Research Foundation and partners WateReuse Association and the Water Environment Federation.

SWB Meeting Agendas & Executive Director's Reports
Here are the State Water Board agendas for their meetings since our last monthly message: August 18 (sewershed surveillance), September 1 (once-through cooling policy), September 15 (water quality fees, ELAP MOU), October 6 & 7 (PFAS) as well as the Executive Director's Report for September (annual volumetric reporting submissions update.) They will meet next on October 20 & 21, which possibly may feature the convening of all of the board members of the State and Regional Water Boards for their annual Water Quality Coordinating Committee series of meetings.

KEY REGULATORY ISSUE SUMMARY
Updated September 3, 2020

Action items for member agencies are in **bold**

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
NUTRIENTS IN SAN FRANCISCO BAY – SCIENCE			
• San Francisco Bay receives some of the highest nitrogen loads among estuaries worldwide, yet has not historically experienced the water quality problems typical of other nutrient-enriched estuaries. It is not known whether this level of nitrogen loading, which will continue to increase in proportion to human population increase, is sustainable over the long term. • Because of the complexity of the science behind nutrient impacts in the SF Bay, stakeholders in the region are participating in a steering committee to prioritize scientific studies and ensure that all science to be used for policy decisions is conducted under one umbrella.	• For FY20, BACWA contributed the $2.2M required by the Watershed Permit, as well as "frontloading" additional funds that would be subtracted from future permit years. Moving the funding up will accelerate the pace of the science that will be used for management decisions for the third Watershed Permit. • Agencies are conducting effluent monitoring for nutrients under the watershed permit. • Current scientific efforts are focused on expanding monitoring data, modeling, and work exploring the linkage between nutrients, dissolved oxygen, and harmful algal species. • Future studies will be focused on the science needed to inform the development of nutrient load caps for the third Nutrient Watershed Permit.	• BACWA and the Regional Water Board are discussing the possibility of an extension of the current permit term to increase scientific certainty prior to making management decisions. • Continue to participate in steering committee, and planning subcommittee, and provide funding for scientific studies. • Participate in the Nutrient Technical Workgroup, which is a venue to provide technical input to the process, and is open to the public, as well as small technical subgroups addressing items such as the Assessment Framework. • Restarted the Nutrient Management Strategy meetings.	BACWA "Other Useful Nutrient Documents" Page: http://bacwa.org/nutrients/other-useful-nutrient-documents/ SFEI Nutrient Science Plan Documents: http://sfbaynutrients.sfei.org/books/reports-and-work-products

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SF BAY NUTRIENT WATERSHED PERMIT			
• The first nutrient watershed permit was adopted in April 2014. The second Nutrient Watershed Permit (NWP) was adopted May 8, 2019 with an effective date of July 1, 2019. • The second NWP includes: o Continued individual treatment plant nutrient monitoring and reporting; o Continued group annual reporting; o Significantly increased funding for science; o Regional assessment of the feasibility and cost for reducing nutrients through nature-based systems and recycled water; o Establishing current performance for TIN, and "load targets" for nutrient loads based on 2018 load data plus a 15% buffer for growth and variability o Recognition of "early actors" who are planning projects that will substantially decrease TIN loads. • Through the nutrient surcharge levied on permittees, BACWA funds compliance with the following provisions on behalf of its members: o Group Annual Reporting o Optimization and Facilities Upgrade Studies (first permit term) o Regional Studies on Nature Based Systems and Recycled Water (second permit term) o Support of scientific studies through the RMP at $2.2M per year through the five-year permit term.	• BACWA submitted a final report on Nutrient Treatment by Optimization and Upgrade on June 26, 2018. An agency-customizable presentation, and a brochure to educate governing boards and the public were made available to our members. • BACWA and SFEI most recently submitted a science implementation plan and schedule update on February 1, 2020. • All agencies covered by the Nutrient Watershed Permit participated in the first four group Annual Reports, submitted in 2015, 2016, 2017, and 2018. Agencies are now reporting to BACWA via a data sheet developed by the consultant. An updated data sheet was distributed to agencies that accounts for changes in the monitoring and reporting program in the second Watershed Permit, including the following: o The second watershed permit reporting period is now based on water year, through September 30, instead of permit year, through June 30. The first Group Annual Report under the new permit was submitted Feb 1, 2020. o Agencies with flows greater than 10mgd are required to conduct influent monitoring. o Organic nitrogen and soluble reactive phosphorus are no longer required to be monitored in effluent. • Agencies with plans to substantially reduce nutrients are recognized in 2nd Watershed Permit Fact Sheet.	• **Agencies continue to report nutrient monitoring to the Water Boards through CIWQS and to BACWA via the data sheet.** • **Agencies with plans to implement projects that will substantially reduce nutrient loads should keep the Regional Water Board and BACWA apprised, to get credit for "early actions".** • **Work with HDR and SFEI as needed to collect information for Nutrient Removal by Recycled Water Evaluation and the Nature-Based Systems study.** Agencies provided preliminary information in June 2020. • Begin discussions about development of a potential Nutrient Trading framework. • BACWA has reconvened the Nutrient Strategy Team (NST) that will negotiate with the Regional Water Board to develop the tenets for the 3rd Watershed Permit.	Second Nutrient Watershed Permit: https://www.waterboards.ca.gov/sanfranciscobay/board_info/agendas/2019/May/6_ssr.pdf Optimization/Upgrade Study Final Report: https://bacwa.org/wp-content/uploads/2018/06/BACWA_Final_Nutrient_Reduction_Report.pdf Optimization/Upgrade Report Presentation: https://bacwa.org/wp-content/uploads/2019/03/bacwa_brochure_presentation_20190312.pptx Optimization/Upgrade Report Brochure: https://bacwa.org/wp-content/uploads/2019/03/BACWA-2019-Nutrient-Brochure_Final_20190301.pdf BACWA Nutrient Annual Reports: http://bacwa.org/document-category/nutrient-annual-reports/

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CHLORINE RESIDUAL COMPLIANCE			
• The Basin Plan chlorine residual effluent limit is 0.0 mg/L. Chlorine residual is the most frequent parameter for violations for Region 2 POTWs, however, because there are 24 hourly reporting events each day, the "opportunities" for violations are enormous. However, the actual violation rates are infinitesimal (~0.001%). • Agencies are overdosing their effluent with the dechlorination agent, sodium bisulfite, to prevent chlorine violations, a practice which costs more than $1 million regionally each year.	• The Regional Water Board has worked with BACWA to develop a Basin Plan Amendment (BPA). BACWA has retained consultant support for this effort. • **A draft BPA was released August 18, 2020. Comments are due October 2 and adoption is anticipated at the November Board meeting.** • The draft BPA includes: o A 0.013 mg/L Water Quality Objective , which will be applied as a WQBEL in permits, calculated incorporating dilution. The WQBEL will be applied as a one hour average. o A Minimum Level (ML), or Reporting Limit of 0.05 mg/L for online continuous monitoring system.	• **Discuss BPA and prepare comments on the draft BPA (due October 2, 2020).** • **Work with shallow water dischargers (no dilution credits) in advancing additional information to the Board in support of increasing the proposed 0.05 mg/L ML (although these agencies will still benefit from the proposed one-hour averaging period).**	Basin Plan Amendment support Scope of Work: https://bacwa.org/wp-content/uploads/2018/01/EOA-Inc.-SOW-Budget.pdf SF RWQCB CEQA Scoping meeting May 22: https://www.waterboards.ca.gov/sanfranciscobay/press_room/R2%20TRC%20BPA%20CEQA_Scoping_Mtg%20Lyris%20Notice.pdf Proposed BPA and Draft Staff Report released August 18, 2020. https://www.waterboards.ca.gov/sanfranciscobay/public_notices/Chlorine%20BPA%20Draft%20Staff%20Report%20%20BPA%208.18.pdf

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PESTICIDES			
• Pesticides are regulated via FIFRA, and not the Clean Water Act. POTWs do not have the authority to regulate pesticide use in their service area, but may be responsible for pesticide impacts to their treatment processes or to surface water. • Through BAPPG, BACWA aims to proactively support a scientifically sound pesticide management program that will not impact POTWs' primary functions of collecting and treating wastewater, recycling water, and managing biosolids.	• Beginning 2016, EPA has been reviewing the registration of several key pesticides, a task it conducts once about every 15 years. • BACWA has funded consultant support to write comment letters advocating for the consideration of POTW and surface water issues during EPA's risk assessments as part of reregistration. Funding was increased from $30K to $60K in FY20/21. • The Regional Water Board leverages BACWA's efforts to provide their own comment letters to EPA. • With chronic toxicity limits likely in the near term, POTWs will be in compliance jeopardy if pesticides contribute to toxicity. • Baywise.org has launched webpages on flea and tick control messaging to pet owners and veterinarians.	• Continue to comment on pesticide reregistrations. • Work with veterinary associations on messaging with respect to flea and tick control alternatives. • Continue to develop summary of EPA actions on pesticides. • Look for opportunities to work with CalDPR on pesticides research.	BACWA Pesticides Regulatory Update and Call to action: https://bacwa.org/wp-content/uploads/2016/02/BACWA-Pesticide-Regulatory-Update-2016-1.pdf BACWA Pesticide Regulatory Support Page: https://bacwa.org/document-category/pesticides-regulatory-support/ Baywise flea and tick pages: https://baywise.org/

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MERCURY/PCB WATERSHED PERMIT			
• Mercury/PCB Watershed Permit was reissued on 11/8/17 with 1/1/18 effective date. The Watershed Permit is based on the TMDLs for each of these pollutants. • Aggregate PCB and mercury loads have been well below waste load allocations through 2016. • Method 1668C for measuring PCB congeners has not been promulgated by EPA. Data collected during the first permit term varied widely depending on which laboratory performed the analyses. BACWA Laboratory Committee developed an updated PCB Protocol to reduce variability between laboratories running Method 1668C, effective January 1, 2014. Data have been more consistent since the distribution of this document.	• The 2017 watershed permit reduces monitoring frequencies via Method 1668C for agencies with design flows of less than 50 mgd. It also incorporates the laboratory guidance from the BACWA PCB Protocol. • The permit requires continued risk reduction program funding and annual reporting of effort. BACWA is repeating its grant program that it established as part of the previous permit. In summer 2018, two $25,000 grants were awarded, to APA Family Support Services (now complete) and the California Indian Environmental Alliance (ongoing through 2020).	• Continue outreach to dentists on amalgam separation through BAPPG and BACWA's pretreatment committee. • Schedule risk reduction presentations by the grantees to the Regional Water Board in 2021.	2017 Mercury/PCB Watershed Permit: http://www.waterboards.ca.gov/sanfranciscobay/board_decisions/adopted_orders/2012/R2-2012-0096.pdf Risk Reduction Materials from 2012 and 2017 Permit term: https://bacwa.org/mercurypcb-risk-reduction-materials/ Updated BACWA PCBs Protocol: https://bacwa.org/wp-content/uploads/2014/02/PCBs-Sampling-Analysis-and-Reporting-Protocols-Dec13.pdf
ENTEROCOCCUS LIMITS			
• In August 2018, the State Water Board adopted new statewide bacteria water quality objectives and implementation options to protect recreational users from the effects of pathogens in California water bodies. The objectives and implementation options are a new part 3 of the Water Quality Control Plan for the SIP and Ocean Plan. • The Objectives were approved by the Office of Administrative Law in February 2019 and by EPA in March 2019	• The new enterococcus objective for saline waters is a six-week rolling geometric mean of enterococci not to exceed 30 cfu/100 mL, calculated weekly, with a statistical threshold value of 110 cfu/100 mL, not to be exceeded by more than 10 percent of the samples collected in a calendar month, calculated in a static manner. • The Regional Water Board has been granted dilution credit upon request when implementing the new objectives in NPDES permits.	• BACWA worked with SFEI and funded a study of background enterococcus levels in the SF Bay. Surface water samples were collected in July (dry season) and January (wet season) throughout the Bay. Samples from all stations were below the 30 CFU/100 mL WQO, justifying allowing for dilution credits when implementing the WQO. **The study was completed and submitted in June 2020.**	SWB Bacterial Objective page: https://www.waterboards.ca.gov/bacterialobjectives/ SFEI Final Report on Enterococci in the SF Bay: https://bacwa.org/wp-content/uploads/2020/08/BACWA-2020_Enterococci-report_final.pdf

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STATE WATER BOARD TOXICITY PROVISIONS			
• The State Water Board has been working since before 2012 to establish Toxicity Provisions in the SIP that would introduce uniform Whole Effluent Toxicity Requirements for the State • Draft State Toxicity Provisions posted October 2018, with **a Second Revised Draft released July 7, 2020.** The Provisions would establish: o use of Test of Significant Toxicity (TST) as statistical method to determine toxicity replacing EC25/IC25 (with concerns it will lead to more false positive results); o numeric limits for chronic toxicity for POTWs >5mgd and with a pretreatment program; smaller POTWs would receive effluent targets and only receive limits if Reasonable Potential is established; o Regional Water Board discretion on whether to require RPAs for acute toxicity; o for POTWs with *Ceriodaphnia dubia* as most sensitive species, numeric targets rather than limits until after completion of state-wide study on lab/ testing issues (Dec. 31, 2023). During individual permit reissuances since 2015, the Regional Water Board has been performing RPAs for chronic toxicity and giving chronic toxicity limits to agencies with Reasonable Potential.	• Key issues for BACWA continue to be: o default of numeric effluent limits for all POTWs >5mgd, without first establishing reasonable potential, o reasonable potential analysis methodology, o MMEL testing schedule and laboratory capacity, o test species variability o sensitive species screening requirements • Since 2016, agencies have had the option to skip sensitive species screening upon permit reissuance and pay the avoided funds to the RMP to be used for CECs studies. If agencies are required by the provisions to do sensitive species screening, this will reduce RMP funds by approximatly $100K per year. • BACWA has joined SCAP, CVCWA and NACWA in a lawsuit alleging EPA did not follow proper procedure in requiring use of the TST, which has not been officially promulgated. The lawsuit was dismissed on Statute of Limitation grounds, but the group has filed an appeal. • BACWA hosted a toxicity workshop for its members in September 2017.	• **BACWA submitted comments on the Second Revised Draft Provision on August 24, 2020.** The comments were limited to revisions made in this Second Revised Draft (July 2020). The letter focused on the application of numeric effluent limits for POTWs >5mgd, without first establishing reasonable potential and requested toxicity targets, instead of limits, for POTWs without reasonable potential. • Collaborate with State Water Board, CASA and POTWs Statewide on the special study on the *Ceriodaphnia dubia* test method. • Continue to work with Regional Water Board on language for implementing Toxicity Provisions in Region 2 NPDES Permits.	SWRCB Toxicity Page: http://www.swrcb.ca.gov/water_issues/programs/state_implementation_policy/tx_ass_cntrl.shtml Toxicity Workshop Presentations: https://bacwa.org/bacwa-toxicity-workshop-september-18-2017/ BACWA Dec 2018 Comments on Toxicity Provisions: https://bacwa.org/document/bacwa-comments-on-toxicity-provisions-12-21-18/ BACWA Feb 2020 Comments on MMEL scheduling: https://bacwa.org/wp-content/uploads/2020/02/BACWA-Tox-Provisions-App-K-to-Staff-Report-comments-2-10-2020.pdf BACWA Aug 2020 Comments on Second Draft of Toxicity Provisions: https://bacwa.org/wp-content/uploads/2020/08/BACWA-Comments-on-2020-Toxicity-Provisions-Update.pdf

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COMPOUNDS OF EMERGING CONCERN			
• Pharmaceuticals and other trace compounds of emerging concern (CECs) are ubiquitous in wastewater at low concentrations and have unknown effects on aquatic organisms. • The State Water Board is considering developing a Pilot CECs Monitoring Plan for the State. • Region 2's CEC strategy focuses on monitoring/tracking concentrations of constituents with high occurrence and high potential toxicity. Much of what the State Water Board is considering for its Pilot Monitoring Plan is already being implemented in Region 2 through the RMP.	• The Regional Water Board has stated that voluntary and representative participation in RMP CECs studies is key to avoiding regulatory mandates for CECs monitoring. These studies are informational and not for compliance purposes. BACWA developed a White Paper on representative participation to be used to support facility selection for these studies. It is intended to be a living document with ongoing updates • Microplastics have been a focus of the RMP in recent years. BACWA has participated in the Workgroup and developed a POTW Fact Sheet. One conclusion of the RMP work is that POTWs contribute much lower microplastic loads than stormwater. • DDW has adopted a definition of Microplastics in Drinking Water (expected to apply to other matrices such as wastewater and stormwater)..	• **Continue to participate in the RMP CEC Workgroup and solicit agency participation for future studies.** • Provide ongoing updates to White Paper for use by the RMP in selecting representative POTWs for participation in CEC studies, and develop a proposal for ongoing monitoring. • Continue tracking State Water Board and Ocean Protection Council actions re: microplastics.	RMP CEC Workgroup: http://www.sfei.org/rmp/ecwg#tab-1-4 BACWA CECs White Paper: https://bacwa.org/document/bacwa-cec-white-paper-updated-june-2020/ BACWA Microplastics Fact Sheet: https://bacwa.org/wp-content/uploads/2019/09/BACWA-Microplastics-flyer.pdf SFEI Microplastics Science Strategy: www.sfei.org/documents/microplastic-monitoring-and-science-strategy-san-francisco-bay SWRCB Microplastics in Drinking Water page: https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/microplastics.html

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PER- AND POLYFLOUROALKYL SUBSTANCES (PFAS)			
• Per- and polyfluoroalkyl substances made substances (PFAS) are a large group of human-made substances that are very resistant to heat, water, and oil. PFAS have been used extensively in surface coating and protectant formulations; common PFAS-containing products are non-stick cookware, cardboard/paper food packaging, water-resistant clothing, carpets, and fire-fighting foam. • Perfluorooctane sulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) are two types of PFAS that are no longer manufactured in the US; however, other types of PFAS are still produced and used in the US. • All PFAS are persistent in the environment, can accumulate within the human body, and have demonstrated toxicity at relatively low concentrations. PFOA and PFOS were found in the blood of nearly all people tested in several national surveys. • Potential regulatory efforts to address PFAS focus on drinking water in order to minimize human ingestion of these chemicals, although regulators have also expressed concern about uptake into food from land applied biosolids.	• In Aug 2019, DDW lowered the drinking water notification levels (NLs) to 6.5 ng/L for PFOS and 5.1 ng/L for PFOA (lowest detection possible at the time). In Feb 2020, DDW also lowered the 'response levels' (RLs) to 10 ng/L for PFOA and 40 ng/L for PFOS. • Under AB756 (July 2019), DDW can order public water systems to monitor PFAS, consumers must be notified if NLs/RLs are exceeded, and water sources must be removed from service or blended/ treated if RLs are exceeded (if possible). DDW has requested OEHHA develop NLs for seven other PFAS compounds and public health goals for both PFOA and PFOS, the next step in establishing drinking water MCLs. • In 2019, **the SWRCB developed a phased investigation action plan** requiring testing of drinking water systems and site investigations at high risk locations for PFAS. Investigative orders are issued as follows: o Mar/Apr 2019 - landfills and airports and adjacent public water systems o Oct 2019 - chrome-platers o **July 2020 - POTWs** o TBD late 2020 - refineries & bulk terminals	• **The July 2020 SWRCB investigative Order for POTWs is not applicable to Region 2 agencies. Instead, BACWA worked with RWB staff and obtained State Water Board approval to fund and conduct a regional study through the RMP.** • SFEI is conducting this study in two phases: o In Phase 1, up to 15 representative facilities (to be selected) will collect samples in Q4 2020 for influent, effluent, RO concentrate, and biosolids. SFEI will analyze data and prepare report (anticipated May 2021). o To inform the selection of representative facilities, SFEI developed a questionnaire; response from BACWA agencies is requested by 9/4. o Phase 2 will be conducted in Summer/ Fall 2021 and will be designed based on recommendations from Phase 1 report. • The Summit Partners are holding a PFAS Workshop on the SWRCB investigative order for POTWs on September 16. • BACWA will continue collaboration with Summit Partners as well as tracking developments at the State and Regional level.	CASA Factsheet: https://casaweb.org/wp-content/uploads/2019/10/4-CASA_PFASFactSheet4.pdf SWRCB website: https://www.waterboards.ca.gov/pfas/ OEHHA Notification Levels for Drinking Water: https://oehha.ca.gov/water/notification-levels-chemicals-drinking-water EPA PFAS Resources https://www.epa.gov/pfas EPA PFAS Action Plan (updated Feb 2020) https://www.epa.gov/sites/production/files/2020-01/documents/pfas_action_plan_feb2020.pdf SWRCB Investigative Order for POTWs: https://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2020/wqo2020_0015_dwq.pdf Region 2 PFAS Study Phase 1 Scope of Work: https://bacwa.org/wp-content/uploads/2020/08/4c-BACWA-PFAS-SOW_20200816.pdf

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SSS WDR REISSUANCE			
• The State Water Board plans to reissue the SSS WDR in 2021. • They have sought out early stakeholder engagement through outreach to CASA and the Regional Associations, and NGOs. • Goals for the update are: o Effective spill response o Proactive planning and management o Transparent reporting o "Feasible and reasonable" regulations - good faith effort to comply - personnel, budget, equipment by governing board	• The State Water Board has identified the following as key issues to be included: o Reporting of PSL spills o Improvement of CIWQS data quality o Study of the impact of exfiltration o Updated SSMPs that are more enforceable o Potential incentives for well performing systems • CASA provided proposed redlines to the SSS WDR on the text of the SSS WDR, as well as the proposed SSMP outline. They have been meeting with the State Water Board regularly during 2019.	• Comment on draft SSS WDR when available for public comment. The State Water Board has not provided an updated schedule for the anticipated draft.Discuss response to issues such as exfiltration via BACWA's Collection Systems Committee.	SWB SSS WDR page: https://www.waterboards.ca.gov/water_issues/programs/sso/ CASA SSS WDR Redlines: https://bacwa.org/document/sss-wdr-casa-redlines-8-29-18/ CASA SSS WDR MRP Redlines: https://bacwa.org/document/casa-sss-mrp-redlines-08-29-18/

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ELAP UPDATE			
• In August 2015, the State Water Board contracted with Southern California Coastal Water Research Project (SCCWRP) to establish and facilitate an Expert Review Panel to conduct an examination of ELAP, California's laboratory certification body. • The Expert Review Panel concluded that ELAP's current regulations are inadequate. The Panel recommended that ELAP adopt the laboratory standard established by The NELAC Institute (TNI) as the most viable option for California. • The Environmental Laboratory Technical Advisory Committee (ELTAC) was established to assist ELAP in technical matters that impact the laboratory community. The committee is composed of representatives from the laboratory community and data users, and have represented the POTW laboratory community during this process. • AB 1438 was signed into law on Sept 28, 2017 and became effective January 1, 2018. The bill sets the stage for ELAP to adopt TNI standards.	• Draft Regulations that included adopting most of the TNI standard for laboratories were released for public comment on October 11, 2019. Minimal revisions were proposed in February 2020 and **regulations were adopted May 2020.** • Adoption of TNI standards poses a challenge since there are more than 1000 individual requirements in the full document. Initial costs may include o hiring staff to handle TNI-related paperwork; o hiring consultants to setup the TNI documentation framework; o purchasing Laboratory Information Management System (LIMS) software; o purchasing documents and training material from TNI, etc. • The new standards could be a particular burden on small municipal laboratories, which may choose to close if they cannot economically meet the new standards. • BACWA submitted comments on the draft regulations aimed at improving clarity and implementability of TNI. The comments also addressed the enforcement provisions and lack of due process therein.	• Requirements in the newly-adopted regulations are to be implemented within three years of the regulations effective date. The estimated effective date is October 2020, however, a final date has not yet been set as the regulations has not yet been filed with the Office of Administrative Law. BACWA is tracking these final steps toward effectiveness of regulations. • Continue to work through BACWA's Laboratory Committee to support dischargers and mitigate the burden of the newly-adopted requirements. In June 2020, ELAP staff presented at the Lab Committee meeting. In September, the Committee held a special meeting to discuss information requests in SWRCB ELAP Pre-Assessment letters.	State Water Board's ELAP page: http://www.waterboards.ca.gov/drinking_water/certlic/labs/elap_regulations.shtml BACWA Comment letter on Draft Regulations: https://bacwa.org/wp-content/uploads/2019/12/BACWA-comments-ELAP-Regs-12-20-19.pdf

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PHASE-OUT OF BIOSOLIDS AS ALTERNATIVE DAILY COVER			
• Regulatory drivers are indicating that biosolids used as alternative daily cover (ADC) or disposed in landfills will be phased out: o AB 341 set a goal to recycle 75% of solid waste by 2020 and CalRecycle's plan to achieve that goal called for a marked, but unquantified, reduction of organics to landfills. o SB 1383, adopted in September 2016 requires organics diversion: -50% by 2020 (relative to 2014) -75% by 2025 (relative to 2014) o In 2020, CalRecycle will count green waste as disposal (per AB 1594), rather than diversion, even when used as ADC.	• While the regulations don't explicitly forbid biosolids disposal/reuse in landfills, it is assumed that since biosolids are a relatively "clean" waste stream that can be easily diverted, landfills will stop accepting biosolids. • In the 2018 BACWA Biosolids survey, more agencies reported that they are developing plans for the phase-out than in the 2016 Survey. • The latest draft of proposed regulations was posted on April 20, 2020, with adoption on July 1, 2020. The regulation will become effective in 2022, and enforceable in 2024. Issues of concern are: o Diverted biosolids must be anaerobically digested and/or composted to qualify as landfill reduction. o Language that would prohibit local ordinances restricting biosolids land application has been softened. o Procurement of renewable natural gas for renewable energy generation, use as a low carbon fuel, and pipeline injection has been included in the draft language. Regarding biosolids cake/products, procurement requirements are implied for biosolids compost only. o Current regulatory language implies that incineration and surface land disposal sites are "landfills" for accounting purposes.	• Consider ways to build a market for compost and other soil amendment products from biosolids, using lessons learned in the Pacific Northwest and Midwest. • Actively work through CASA with California Air Resource Board, CalRecycle, State Water Resource Control Board, and California Department of Food and Agriculture to mutually develop sustainable long-term options for the beneficial use of biosolids. • Follow efforts of the BABC, investigating all-weather options for biosolids management (including innovative technologies generating energy and other useful bioproducts from biosolids). BABC is a BACWA Project of Special Benefit, beginning in FY20. • Participate in BAAQMD's Methane Expert Panel to educate their staff on how to address implementation of SB 1383 at the Air District level. • Following the release of the next draft regulation, participate in discussions/efforts with CASA and CalRecycle to modify the regulatory language that implies incineration and surface land disposal sites are landfills.	BACWA 2016 Biosolids Trends Survey Report: https://bacwa.org/wp-content/uploads/2017/08/BACWA-2016-Biosolids-survey-report.pdf 2018 BACWA Biosolids Survey: https://www.surveymonkey.com/r/7Q3PDY9 CASA White Paper on Biosolids Use in Landfills: https://bacwa.org/wp-content/uploads/2017/01/1-11-17-Sustainability-for-biosolids-use-at-landfills.pdf BABC website: http://www.bayareabiosolids.com/ CASA Comments on proposed SB 1383 Implementation Regulation: https://bacwa.org/wp-content/uploads/2019/09/7-17-19-CASA-Comments-SB-1383-Regs3.pdf

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
CLIMATE CHANGE MITIGATION			
• CARB's Climate Change Scoping Plan Update lays out the approach for the State to meet its greenhouse gas (GHG) emissions reduction targets through 2030, including additional policies to achieve 40% reduction below 1990 levels by 2030: o Short-lived climate pollutants (i.e., methane) o Carbon sequestration on Natural and Working Lands o Largest emitters (transportation, electricity, and industrial sectors) • SB 1383 (Short-Lived Climate Pollutant Reduction) calls for: o 40% methane reduction by 2030 o 75% diversion of organic waste from landfills by 2025 o Policy and regulatory development encouraging production/use of biogas • BAAQMD developed a Clean Air Plan that requires GHG emissions reduction on track with CARB's 2030 and 2050 targets. • BAAQMD has proposed the development of Regulation 13 (climate pollutants) targeting GHG emission reductions related to organics diversion and management.	• CARB states POTWs are part of the solution for reducing fugitive methane, and encourages diversion of organics to POTWs to use excess digester capacity and produce biogas. However, diversion also increases biosolids, which also need to be diverted from landfills. • Many POTWs are exploring energy generation, but BAAQMD TAC regulations could make such programs more difficult to implement. Direct injection of biogas to PG&E's pipelines or use as a transportation fuel may be more efficient. OSHA's PSM Standards, triggered by use of biogas offsite (if managing over 10k lbs of biogas onsite), may cause pipeline injection to be cost-prohibitive. CalOSHA has verbally agreed with scenarios exempt from PSM standards. • CARB's previous interest in nitrous oxide emission estimates and/or emission factors for POTWs has shifted to toxic air contaminants. See BAAQMD Rule 11-18. • BAAQMD is developing a suite of Rules under Regulation 13 for climate pollutants methane and nitrous oxide o Rule 13-1 (significant methane releases) - Postponed indefinitely in favor of source specific rules. o Rule 13-2 (organic material handling) – Postponed indefinitely to develop Rules 13-3 and 13-4. o Rule 13-3 (composting operations) and Rule 13-4 (anaerobic digestion and sewage treatment) – Suspended due to COVID-19.	• Work with CASA to look for opportunities for POTWs to help the State meet GHG reduction goals. • Look for opportunities to inform BAAQMD on the opportunities and challenges for climate change mitigation by Bay Area POTWs. • Work with PG&E and BAAQMD to explore options for POTWs to inject biogas into PG&E pipelines. Note: CASA has been discussing the barriers to pipeline injection with CPUC staff and they have proposed reducing their standard from 990 Btu/scf to 970 Btu/scf. • Engage in development of Regulation 13 Rules, which are intended to govern climate pollutants, odors, VOCs and TACs from POTWs and anaerobic digesters. Continue to work with BAAQMD staff to provide information and education about anaerobic digesters and POTW operations. Participate in the Methane Expert Panel and the Organic Recovery Technical Working Group, as well as comment on draft Rules.	Climate Change Scoping Plan: https://www.arb.ca.gov/cc/scopingplan/scoping_plan_2017.pdf CARB Short Lived Climate Pollutant Reduction Strategy: https://www.arb.ca.gov/cc/shortlived/meetings/03142017/final_slcp_report.pdf SB 1383: http://www.leginfo.ca.gov/pub/15-16/bill/sen/sb_1351-1400/sb_1383_bill_20160919_chaptered.htm BAAQMD Clean Air Plan: http://www.baaqmd.gov/plans-and-climate/air-quality-plans/current-plans BAAQMD Regulation 13 http://www.baaqmd.gov/rules-and-compliance/rules/regulation-13-climate-pollutants BACWA Comments on Regulation 13: https://bacwa.org/wp-content/uploads/2019/07/BACWA-AIR_FINAL_Comment-Letter_Regulation13_Rules_24_071219.pdf

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
CLIMATE CHANGE ADAPTATION			
• In 2017, the State Water Board adopted a Climate Change Resolution addressing mitigation and adaptation. One of the requirements is that Regional Water Boards will make recommendations to the State Water Board on the need to modify permits and other regulatory requirements to reduce vulnerability of water and wastewater infrastructure to flooding, storm surges, and sea level rise. • The Regional Water Board identified Climate Change and Wetland Policy Update as the highest priority Basin Planning project in their 2018 Triennial Review. • In April 2019, Governor Gavin Newsom signed Executive Order N-10-19 directing State Agencies to recommend a suite of priorities and actions to build a climate-resilient water system and ensure healthy waterways through the 21st century.	• The State Water Board is planning a data request that they will send to all permitted facilities (collection systems and POTWs) in the State to better understand to what extent agencies are performing climate change vulnerability assessments and/or investing in adaptation measures. They plan to use this information to determine the need for funding assistance or permit requirements for climate change planning. • The Regional Water Board hosted a workshop on its Wetlands Policy 94-086 on August 14 and solicited stakeholder input on potential revisions to the Policy. • BACWA provided the Regional Water Board staff specific case studies of wetlands projects that are being considered as well as written comments regarding Policy revisions that would help incentivize the development of wetlands projects by wastewater agencies, and reduce permitting hurdles.	• Continue to coordinate with State Water Board on the status of their data request on climate change planning, so members can provide the information they request as effectively as possible. Survey expected to be release at the beginning of 2021. • Continue to work with Regional Water Board to look for regulatory solutions to encourage wetlands projects for shoreline resiliency. • BACWA to review Governor's Water Resilience Portfolio initiative, released in 2020.	State Water Board 2017 Climate Change Resolution: https://www.waterboards.ca.gov/board_decisions/adopted_orders/resolutions/2017/rs2017_0012.pdf Regional Water board Wetlands Policy Page: https://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/climate_change/wetland_policies.html BACWA Comments on Wetlands Policy: https://bacwa.org/wp-content/uploads/2018/09/BACWA-comments-Wetland-Policy-9-14-18.pdf Governor's Final Water Resilience Portfolio: http://waterresilience.ca.gov/ BACWA Comments on Resilience Portfolio: https://bacwa.org/wp-content/uploads/2019/10/BACWA-Water-Resilience-Portfolio-10-01-19.pdf

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
TOXIC AIR CONTAMINANTS - BAAQMD RULE 11-18 AND AB 617			
• Regulation 11, Rule 18 (Rule 11-18), adopted November 15, 2017, is BAAQMD's effort to protect public health from toxic air pollution from existing facilities, including POTWs. • Per the Rule, BAAQMD will use toxic emissions inventories and proximity to the nearest receptor (residents or offsite workers) to conduct site-specific Health Risk Screening Analyses (HRSA). From HRSAs, BAAQMD will determine each facility's prioritization score (PS). BAAQMD will conduct Health Risk Assessments (HRAs) for all facilities with a cancer PS>10 or non-cancer PS>1.0. After verifying the model inputs, if the facility still has PS above that threshold, that facility would need to implement a Risk Reduction Plan that may include employing Best Available Retrofit Control Technology for Toxics (TBARCT). • AB 617 (Community Air Protection Program) – requires CARB to harmonize community air monitoring, reporting, & local emissions reduction programs for CAPs and TACs (and GHGs). Oakland and Richmond. POTWs within these communities may have to accelerate implementation of risk reduction measures.	• BACWA developed a White Paper on the BAAQMD Rule to describe its potential impacts on the POTW community. • In response to a request by BAAQMD, the AIR Committee delivered a letter report summarizing specific challenges that POTWs would face in complying with the rule due to budgeting and planning constraints related to being public agencies. • In response, BAAQMD moved all POTWs to Phase 2 to give sufficient time to update the model's inputs, and plan for emissions reduction or TBARCT, as needed. **Phase 2 begins in 2020** with data collection and verification, followed by the development of HRAs for facilities with a cancer PS>10 or non-cancer PS>1.0. Implementation of the Rule for Phase 2 facilities will be spread out over two years depending on the prioritization score. • AIR Committee gathered data on proximity factors from each facility and submitted to BAAQMD for updating prioritization scores, which will be use in HRA development. • Best Available Retrofit Control Technology (BARCT) Implementation Schedule for industrial Cap-and-Trade facilities was adopted by BAAQMD's Board of Directors at a public hearing on December 19, 2018.	• **Priority: Agencies should use the tool developed by the AIR Committee's Emissions Inventory Subcommittee to address emission contributions from influent flows, which will be used to update emissions inventory values.** • **Respond to BAAQMD data request in 2020. There will be a 60-day turn-around to comply with the data request.** • Track both AB 617's regulation development and expansion of the toxics compound list under AB 2588's Air Toxics Hot Spots Program. Draft regulatory language under AB 617 stated all uncovered POTWs >5 MGD and covered (primary) POTWs >10 MGD must monitor and report all compounds listed under AB 2588. The language had been temporarily removed, but 2020 amendments propose bringing the language back. CARB has agreed to give the wastewater sector time to develop a short-list of relevant compounds and perform a pooled emissions estimating effort to update outdated default emission factors (through 2026). CASA has a subgroup dedicated to this effort. Results could inform Rule 11-18 HRA's.	BAAQMD Rule 11-18 page: http://www.baaqmd.gov/rules-and-compliance/rule-development/rules-under-development/regulation-11-rule-18 Rule 11-18 Process Flowchart: https://bacwa.org/document/baaqmd-11-18-process-flowchart-08-17-17/ BACWA White Paper: https://bacwa.org/wp-content/uploads/2017/01/11-18-White-Paper_final-2.pdf BAAQMD page on AB 617: http://www.baaqmd.gov/rules-and-compliance/rule-development/barct-implementation-schedule CARB page on AB 617: https://ww2.arb.ca.gov/our-work/programs/criteria-and-toxics-reporting/ctr-regulation CARB page on AB 2588: https://ww3.arb.ca.gov/ab2588/2588guid.htm

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
RECYCLED WATER GENERAL ORDER			
• In response to the Governor's proclamation of a Drought State of Emergency, the State Water Board adopted a General Order on June 3, 2014 to streamline permitting for recycled water. The State Water Board reissued the General Order on June 7, 2016, making enrollment mandatory for Regional Permittees. • In May 2018, the State Water Board released Recycled Water Policy Amendments for Public Comment. The Recycled Water Policy governs the Recycled Water General Order. • The Amendments were adopted in December 2018.	• Key issues in the Recycled Water Policy Amendments are: o Introduces goal to increase recycled water where wastewater is otherwise discharged to ocean, bays, and estuaries. o Terminates Region 2 96-011 Recycled Water General Order three year after Policy Amendment adoption (April 2020). o Adds to the procedural burdens in obtaining Wastewater Change Petition. o Removes requirement for priority pollutant monitoring. • On April 8, 2020, SF Regional Water Board transitioned 96-011 permittees to the State General Order by issuing a NOA and modified MRP. BACWA had previously provided comments on the draft NOA and MRP documents. All permittees were transitioned with the exception of City of Livermore, Delta Diablo, Napa Sanitation, and SASM who have older Title 22 Engineering Reports; they will be enrolled at a later date following a review by DDW.	• Support member agencies as they implement new monitoring and reporting requirements. • BACWA Recycled Water Committee continues to collaborate with Regional Water Board staff. Recently, Committee leaders were invited to the give an update to Regional Water Board members on the transition to the General Order as well as recycled water projects and activities in the SF Bay area.	2016 State Recycled Water General Order: http://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2016/wqo2016_0068_ddw.pdf State Recycled Water Policy Amendment Page: https://www.waterboards.ca.gov/water_issues/programs/water_recycling_policy/index.html#amendment BACWA comments on Recycled Water Policy Amendments: https://bacwa.org/wp-content/uploads/2018/06/BACWA-RW-Policy-comments-6-26-18.pdf State Water Board 2001 Engineering Report Guidelines: https://bacwa.org/wp-content/uploads/2019/09/Engineering-Report-Preparation-Guidelines.pdf

"Parking lot" issues with no updates can be found in previous BACWA issues summaries.

ACRONYMS

ADC	Alternate Daily Cover
BAAQMD	Bay Area Air Quality Management District
BTU/SCF	British thermal units per standard cubic foot
CARB	California Air Resources Board
CASA	California Association of Sanitation Agencies
CAP	Criteria Air Pollutant
CEC	Compound of Emerging Concern
CIWQS	California Integrated Water Quality System
CVCWA	Central Valley Clean Water Agencies
CWEA	California Water Environment Association
EC25/IC25	25% Effect Concentration/25% Inhibition Concentration
ELAP	Environmental Laboratory Accreditation Program
ELTAC	Environmental Laboratory Technical Advisory Committee
EPA	United States Environmental Protection Agency
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
FY	Fiscal Year
GHG	Greenhouse Gas
HRSA	Health Risk Screening Analyses
HRA	Health Risk Assessment
MCL	Minimum Contaminant Level (Drinking Water)
NACWA	National Association of Clean Water Agencies
NELAC	National Environmental Laboratory Accreditation Conference
NL	Notification Level
NWP	Nutrient Watershed Permit
PCB	Polychlorinated Biphenyl
POTW	Publically Owned Treatment Works
PS	Prioritization Score
QMS	Quality Management System
RL	Reporting Level
RMP	Regional Monitoring Program
RPA	Reasonable Potential Analysis
SCAP	Southern California Alliance of POTWs
SF Bay	San Francisco Bay
SFEI	San Francisco Estuary Institute
TAC	Toxic Air Contaminant
TMDL	Total Maximum Daily Load
TIN	Total Inorganic Nitrogen
TNI	The NELAC Institute
TST	Test of Significant Toxicity
WQBEL	Water Quality Based Effluent Limitation
WQO	Water Quality Objective

Agenda Explanation
Livermore-Amador Valley
Water Management Agency
Board of Directors
November 18, 2020

ITEM NO. 15 GENERAL MANAGER'S REPORT

Action Requested
None at this time. This is an information item only.

Summary
The General Manager's (GM) tenure began on April 17, 2014. A two-year extension was approved on April 20, 2016, and a three-year extension was approved on February 21, 2018. The agreement requires a report on hours worked during the fiscal year at each Board meeting. There is a limitation of 1,000 hours per fiscal year. For the fiscal year ending June 30, 2020 the General Manager billed LAVWMA 606 hours. For the fiscal year ending June 30, 2021 the General Manager has billed LAVWMA approximately 293 hours. More hours were billed last fiscal year due to EBDA, NPDES permit renewal, and capital project issues. That level of effort will continue in the current fiscal year.

In addition to the brief descriptions below, there are several items of interest for the Board's review:

1. **Asset Management.**
   The majority of the LAVWMA Equipment ID's have been changed over and are ready for labels. DSRSD staff has indicated they are not buying any for the pipelines but will purchase them for the Equipment and Manholes/Vaults on the next order. DSRSD staff has progressed a small amount on capturing corrective work. They are not necessarily getting any more corrective work orders. However, Lucity Mobile has been rolled out to everyone not just Mechanical Maintenance. and Corrective work order forms have been configured for mobile use. There are a few bugs to work out then the Preventative Maintenance forms will be converted over too. The replacement model has been developed but has not been quality controlled with any detail yet. DSRSD's Asset Management team is working towards completion of the following goals.
   a. Equipment identification and labeling
   b. Majority of the LAVWMA equipment has new ID's and is ready for Labeling
   c. Improve Asset Data Collection
   d. Only movement on this is the roll out of Lucity Mobile. No Quantitative analysis has been done.
   e. Lucity Training:
   f. All Operations staff has been provided training on using Lucity mobile to access equipment and create work requests.

2. Records Management Project.
This project is proceeding as well as can be expected due to COVID-19, DSRSD office flood, location of files in various places, and the absence of the administrative assistant. All files in the annex area have been completed and the files in the office are underway.

3. EBDA Issues.
Please refer to the discussion under Item Nos. 10 and 13.

4. Wastewater Agency Response to COVID-19
Plant personnel are all practicing social distancing as much as possible and the use of personnel protective equipment (PPE) continues. This includes masks, gloves, face shields and other items. In most instances only essential O&M staff have been reporting to work, along with management staff periodically. As employees come to work, they self-report as to the presence of any symptoms that could be caused by the virus. If there are any, they immediately go home and remain in isolation for fourteen days. Administrative and engineering staff typically work from home. Email, phone calls, and web meetings have become the new normal. Face to face meetings are extremely rare.

The State Water Board has concluded that disinfection methods practiced by wastewater agencies are adequately killing or inactivating the virus in effluent samples. It is now believed that untreated wastewater may be a viable method to track the presence of the virus in society as a whole. Agencies are working with research institutions to learn more about this. The tests are expensive and are beyond the resources of most agencies. BACWA is working with research institutions to develop more cost effective sampling and testing methods. During the meeting, Member Agency staff can detail more steps they have taken in response to COVID-19. The Board can also refer to the CASA website link in the previous agenda report.

5. FYE21 Capital Project Planning
Please refer to **Attachment No. 15.a** for a status report on all capital projects for FYE21. The General Manager is working closely with DSRSD staff to ensure that projects are managed as effectively as possible.

Following is a brief description of major activities since the February 19, 2020 Board meeting:

- Attended LAVWMA O&M meetings with DSRSD, Livermore and Pleasanton staff. Recent meetings have been Zoom web meetings.
- Prepared and hosted SAG Zoom meetings to discuss HydroScience modelling efforts, EBDA capacity, and EBDA costs.
- Updated Capital Project Planning spreadsheet.

- Drafted items for November 18, 2020 Board Agenda and prepared packet for distribution.
- Drafted minutes from August 19, 2020 Board meeting and revised based on comments received.
- Made updates to website as needed for files and legal requirements. Worked with staff and website developer in updating the website. Will preview during this meeting.
- Updated Action Item List.
- Continued to work with General Counsel to track legislation of interest to LAVWMA and the member agencies.
- Worked with DSRSD staff and DTN Engineers on the MCC replacement project. Reviewed and commented on all spec documents. Searched past packets for sections needed for the MCC project and sent to DTN for addition. Modified all spec docs to match LAVWMA formats. Compiled and issued bid packet, hosted bidders' conference, issued Addendum No. 1, received bids, hosted Zoom bid opening conference.
- Solicited proposals from firms for construction management services for the MCC project. Received, reviewed, and rated proposals. Forwarded proposals to member agencies and General Counsel for review. Set up agreement with Psomas as the selected firm.
- Participated in several Zoom meetings with HydroScience and DSRSD staffs to refine the flow model and select sites for pipeline inspection. Worked with DSRSD staff and HydroScience to collect data needed for SLSS improvements design project.
- Monitored progress of pipeline inspection. Visited sites on several occasions.
- Monitored progress of pump station and O&M projects managed by DSRSD staff.
- Reviewed and approved invoices MCC design, HydroScience project, website development, and records management project for payment by DSRSD. Updated accounting system and operating system on remote computer.
- Continued to Discuss Asset Management issues with DSRSD staff. LAVWMA will follow their lead.
- Worked with DSRSD staff on various inquiries regarding projects near the forcemain to ensure there would be no issues of concern with the integrity of the forcemain.
- Began discussions with DSRSD staff regarding need to review and modify the existing Maintenance Agreement which is forty years old. This will take significant effort and will likely run into the next fiscal year. Provided side agreement letter example that could be used as a temporary solution.
- Selected Corrpro for the corrosion protection project and worked with General Counsel to issue agreement. Hosted Zoom kickoff meeting and arranged with DSRSD staff for information and access to sites.
- Continued working on coordinating a replacement for Sue Montague when she retires.
- Participated in CASA/CWEA/WEF webinars related to managing COVID-19 issues including the virus's presence in wastewater influent, effluent, biosolids, and disinfection practices.

- Attended EBDA Managers Advisory Committee (MAC) meetings. Made notes of same and shared with SAG members.
- Discussed EBDA agreement issues with SAG members on several occasions. Discussed LAVWMA response to EBDA term sheet with EBDA General Manager. Worked with General Counsel on term sheet issues. Met with EBDA General Mangers via Zoom meeting to discuss issues. Worked with DSRSD staff to prepare a Zone 7 brine project summary for EBDA.
- Completed draft ROWD packet and submitted to member agencies for review. Held off on submitting due to issues raised regarding capacity and storage needs. Requested two extensions on submittal date from Regional Board staff.
- Participated in annual wet weather planning meeting.
- Prepared and submitted monthly invoices for LAVWMA General Management services.
- Reviewed and commented on 1st Quarter O&M Report prepared by DSRSD staff.
- Logged into Samsara website at various times to monitor pump station and flows.
- Reviewed and approved DSRSD monthly invoices for O&M services.
- Continued working with EBDA and LAVWMA agency staff to address enterococcus issues.
- Reviewed and commented on draft LAFCO report.
- Began setting up a DocuSign account to comply with Electronic Signature Policy.
- Reviewed EBDA and DSRSD agenda packets.
- Responded to various emails and phone calls from outside agencies and organizations.

Attached for the Board's information, is the most recent Action Item List, **Attachment No. 15.b**.

Next Meeting
The next Regular Board meeting is scheduled for February 17, 2021.

Recommendation
None at this time. This is an information item only.

Attachments
15.a FYE21 Capital Projects Planning List
15.b LAVWMA Action item List

LAVWMA FYE21 Capital Projects
Modified 11/12/2020

Project	Estimated Cost	Estimated Completion Date	Priority (High, Medium, Low)	Complexity (High, Medium, Low)	Lead/Co-Lead/Others	Coordination Issues (Engineering/Operations/Mechanical/ Instrumentation, Controls, & Electrical)	Schedule Issues	Status and other notes
Pump Station Risk Analysis and Forcemain Inspection and Evaluation. Carryover from FYE20.	$250,000	12/31/2020	High, nearing completion	Medium for pump station issues. High for pipeline inspection. Need to provide traffic control for some sites. Will likely use DSRSD's contractor and bill the project.	Weir/Quinlan			Project nearing completion. Modelling has been completed. Pipeline inspection has been completed. Project final reports on capacity issues, storage basin management, SLSS improvements, pipeline inspection results and recommendations for future inspections are in preparation.
MCC and Soft Starter Replacement Project. Carryover from FYE20 and into FYE21. Electrical Improvements to the Main Switchgear at the Pump Station.	Design cost $250,000. Costruction cost $2,300,000 - $2,500,000.	12/31/2021	High, design nearing completion. Construction High - need to complete before winter 2021/22	Medium for design. High for construction due to weather and need for phasing.	Weir/Atendido			Design phase complete. Four bids received on November 10, 2020. Low bid from Royal Electric of $2,222,222 under review. Bidders Questionnaire has been requested as part of due diligence. Notice to Proceed in early December 2020
Rebuild Three Pumps and Their Associated Mortors.	$216,000	12/31/2020	High, underway as purchase order has been issued to R,F. McDonald.	Medium. Will replace the remaining three 500 HP pumps. Need to order seals too. Use same as on the first three?	Quinlan			Options being evaluated. Cost for new pump is $4,000 more than rebuilding pump.
Resealing of all Three Storage Basins.	$200,000	12/31/2020	High, bid packet under development.	Medium. Will need to coordinate with DSRSD's basin sealing project.	Quinlan			Notice to Proceed has been issues. LAVWMA basins scheduled to be first due to wet weahter needs. Bid was under budget.
San Leandro Sample Station Design Improvements.	$175,000	6/30/2021	High		TBD			Improvements are needed to manage likely more frequent discharges to San Lorenzo Creek in response to the new EBDA agreement. HydroScience is preparing a report to assist in design needs.
Road Drainage Improvements at the Pump Station.	$35,000	12/31/2020			TBD			To be combined with similar projects at DSRSD.

LAVWMA FYE21 Capital Projects
Modified 11/12/2020

Project	Estimated Cost	Estimated Completion Date	Priority (High, Medium, Low)	Complexity (High, Medium, Low)	Lead/Co-Lead/Others	Coordination Issues (Engineering/Operations/Mechanical/ Instrumentation, Controls, & Electrical)	Schedule Issues	Status and other notes
Cathodic Protection Projects.	$185,000	12/31/2020	High. Bids are due July 13 at 3:00 p.m.	Medium for some parts, high for others that require traffic control.	Weir/Atendido			Bid Packet issued June 29, 2020. Bids are due July 13, 2020. Informal bid process being used. Three firms were notified.
PLC Upgrade at the Pump Station.	$300,000	6/30/2021		Medium	TBD			Project to be combined with DSRSD SCADA project.
Pipeline Inspection	$100,000	6/30/2021			TBD			Scope will be based on the results and recommendations of the HydroScience (National Plant Services) inspection project.
Smart Detectors on High Maintenance Air/Vac and Air Release Valves.	$40,000	6/30/2021			TBD			The smart detectors are intended to help prevent leaks from the valves along the forcemain system.

LAVWMA Action Item List **Month: November 2020**

SAG Task	Responsible Party	Due Date	Status	Completion Date
Items for November 18, 2020 LAVWMA Board Meeting	SAG	11/10/2020	Usual reports, updates on Risk, MCC and Corrosion Protection projects, progress on renewal of agreement with EBDA, NPDES permit renewal.	
Operations Coordination Committee Task	**Responsible Party**	**Due Date**	**Status**	**Completion Date**
FYE21 Replacement Projects: See Items Below	Zavadil/Delight	Various dates	Refer to information below.	
Pump Station Risk Analysis and Forcemain Inspection and Evaluation. Carryover from FYE20. Estimated cost $250,000	Weir	12/31/2020	Project nearing completion. Will include report on capacity issues (modelling effort being updated based on additional comments form agencies), storage basin management, SLSS improvements, pipeline inspection results and recommendations for future inspections. Pipeline inspectins were completed in October. More than 28,000 feet were inspected. Report should be received soon.	
MCC and Soft Starter Replacement Project. Carryover from FYE20 and into FYE21. Estimated design cost $250,000. Project now includes Electrical Improvements to the Main Switchgear at the Pump Station. Total estimated cost $2,300,000 - $2,500,000.	Weir/Atendido	12/31/2021	Plans and Specs completed and bid packet available on website on October 16, 2020. Mandatory bidders conference on October 28, 2020. RFIs from bidders due November 3, 2020. One addendum issued November 5, 2020. Four bids received November 10, 2020. Low bid from Royal Electric in Sacramento of $2,222,222. Requested Bidder's Questionnaire as part of due diligence. Psomas hired as construction manager.	
Rebuild Three Pumps and Their Associated Mortors. Estimated cost $216,000	Quinlan	12/31/2020	First pump inspected and determined to have extensive damage. May be more cost effective to purchase new pump. The other two pumps will also be inspected to determine if they have similar damage. Considering purchase of three new pumps. Timing is critical due to loss of No. 1 pump.	
Resealing of all Three Storage Basins. Estimated cost $200,000	Quinlan	12/31/2020	Project to be combined with sealing of DSRSD's storage basins. Estimated LAVWMA cost is less that the budgeted $200,000.	
San Leandro Sample Station Design Improvements. Estimated cost $175,000	TBD	6/30/2021	Improvements are needed to manage likely more frequent discharges to San Lorenzo Creek in response to the new EBDA agreement. HydroScience is preparing a report to assist in design needs. Will need to test likely new parameters for EBDA and permit this winter to be as prepared as possible for when the new requirements are in place.	
Road Drainage Improvements at the Pump Station. Estimated cost $35,000	TBD	12/31/2020	To be combined with similar projects at DSRSD.	
Cathodic Protection Projects. Estimated cost $185,000	Weir/Atendido	12/31/2020	Corrpro agreement in place. They were the sole bidder. Contract pirce is $171,200. Work set to begin in November.	
PLC Upgrade at the Pump Station. Estimated cost $300,000	TBD	6/30/2021	Will be included in DSRSD SCADA project, which is design build.	
Pipeline Inspection. Estimated cost $100,000	TBD	6/30/2021	Scope will be based on the results and recommendations of the HydroScience (National Plant Services) inspection project.	
Smart Detectors on High Maintenance Air/Vac and Air Release Valves. Estimated cost $40,000	TBD	6/30/2021	The smart detectors are intended to help prevent leaks from the valves along the forcemain system.	
Other Items				
Wet Weather Issues	Fuller	10/31/2020	Meeting held October 7, 2020. New EBDA Agreement will be a key element of modifications to the wet weather procedures. Will need to test system this winter.	
Live test of SLSS system	Fuller/Atendido	TBD	Conducted in April 2019. No significant issues.	
Live test of Alamo Canal discharge during wet weather	Carson/Fuller	TBD	Test postponed due to COVID-19. Will be scheduled for this winter.	
Wet Well Isolation Gates	Quinlan	6/30/2019	Gate is in good shape but won't fully close. No date set, perhaps this winter.	
EBDA Enterococcus Issue	Fuller		No issues at this time.	
YTD O&M Expenses compared to budget	Carson, Weir	Ongoing	Reviewed at every Operations Coordination Meeting.	