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, February 17, 2021, 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/88372038419

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

Meeting ID: 883 7203 8419

One tap mobile if using audio only from a telephone and not a computer
+1 669 900 9128 88372038419# 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 – 9

6.a. Board Meeting Minutes of November 18, 2020
(The Board will consider approving the minutes from the November 18, 2020 Board meeting.)

Information **7.** **Financial Reporting for the Fiscal Year Ending June 30, 2021**
Pages 10 – 16
(The Board will review the Financial Reports for the Fiscal Year ending June 30, 2021.)

Information **8.** **Status Report on LAVWMA Debt Refinancing**
Pages 17 – 29
(The Board will be updated on the status of LAVWMA's debt refinancing.)

Information **9.** **LAVWMA Quarterly Report of Operations, 2nd Quarter, FY2020-2021**
Pages 30 – 53
(The Board will review the Quarterly Report of Operations, 2nd 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 54– 72
(The Board will receive status reports on two projects at the Export Pump Station.)

Action **11.** **Status Report on Negotiations with East Bay Dischargers Authority for a New Master Agreement and Consideration of Approval of a Term Sheet as the Basis of a New Master Agreement**
Pages 73 – 79
(The Board will receive a status report on staff's ongoing negotiations with East Bay Dischargers Authority for a New Master Agreement. The Board will also consider approval of a Term Sheet as the basis of a new Master Agreement.)

Action **12.** **Modification No. 2 to the Operating and Capital Budget for Fiscal Year 2020/21**
Pages 80– 103
(The Board will consider Modification No. 2 to the Operating and Capital Budget for Fiscal Year 2020/21 for the San Leandro Sample Station Improvements Project and for increased costs for East Bay Dischargers Authority as a result of the new agreement.)

Information **13.** **Update and Response to Various Legal and Legislative Issues**
Pages 104 – 130
(The Board will receive a report regarding proposed legislation and legal developments affecting LAVWMA and its member agencies.)

Information **14.** **General Manager's Report**
Pages 131 – 146
(The Board will review the General Manager's Report regarding the operations and maintenance of the Agency and its facilities.)

Information **15.** **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.)

16. **Closed Session**

a. Public Employee Performance Evaluation
(Government Code Section 54957) – Title: General Manager

b. Conference with Labor Negotiator
(Government Code Section 54957.6)
Unrepresented employee: General Manager

17. Public Report from closed Session

Resolution

18. Third Amendment to the Agreement for General Management Services with Charles V. Weir, dba Weir Technical Services

Pages 147 - 151

(The Board will consider approving a Resolution amending the Agreement for General Management Services with Charles V Weir.)

19. Next Regular Board Meeting, Wednesday, May 19, 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/88372038419 Meeting ID: 883 7203 8419
For audio only via telephone, dial 1 669 900 9128 then enter the following code 88372038419#

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, November 18, 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/86952661811.
6:00 p.m.

1. Call to Order

Chair Bob Woerner called the meeting to order at 6:02 p.m.

2. Pledge of Allegiance

Due to this being a Zoom meeting the Pledge of Allegiance was waived.

3. Roll Call

Board Members Present: Chair Bob Woerner; Vice Chair Ed Duarte; Directors Karla Brown, Ann Marie Johnson, John Marchand, and Julie Testa

Board Members Absent: None

Staff Present: General Counsel Alexandra Barnhill, General Manager Chuck Weir, Treasurer Carol Atwood, DSRSD Operations Manager Jeff Carson, and Recording Secretary Lorrene Salazar

Staff Absent: None

Others Present: Herman Chen, Jan Lee, and Judy Zavadil, DSRSD; Helen Ling and Yanming Zhang, City of Livermore; Daniel Repp, City of Pleasanton; Whitney Crockett, Maze & Associates; Ed Low, Jarvis Fay

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 August 19, 2020 LAVWMA Board Meeting

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

There were no comments from the public. The Motion passed unanimously (6-0) by a roll call vote.

7. Financial Reporting for the Fiscal Year Ending June 30, 2020
Treasurer Atwood discussed the financial statement and noted that year to date compared with last year is higher due to the records management project, NPDES permit renewal, and EBDA negotiations. Director Marchand wanted to make sure that that once completed the records management system would be maintained. The General Manager stated that both Sue Montague and her likely replacement were both very familiar with the software program and should keep all files current. Chair Woerner asked if there should be an annual report on this topic and the General Manager Weir stated that he would keep it as a regular item in the General Manager's Report to the Board.

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

8. Acceptance of Audit Report for Fiscal Year Ending June 30, 2020
Treasurer Atwood asked Herman Chen to introduce Whitney Crockett from Maze & Associates. Ms. Crockett has worked on LAVWMA's audit for the last three years. She provided an overview of the Basic Financial Statements and the Memorandum on Internal Control. She emphasized that the audit was clean and that there were no issues with respect to the audit or internal controls.

Director Marchand motioned, seconded by Director Testa to Accept the Audit Report for Fiscal Year Ending June 30, 2020.

There were no comments from the public. The Motion passed unanimously (6-0) by a roll call vote.

9. LAVWMA Quarterly Reports of Operations, 1st Quarter, FY2020-2021
The Board reviewed the Report and noted that costs were normal and there were no major equipment issues. Director Marchand noted that DSRSD had virtually no flow to the pump station during the quarter as it was all recycled. The Board then discussed water recycling in general including potable reuse and storage at the Chain of Lakes.

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

10. 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 was completely revised to ensure more flexibility in operations at the plants as well as at the pump station. The conclusion was that 30 MGD is needed in the new EBDA agreement. The higher flow also reduces the likely discharges to San Lorenzo Creek, which will make the NPDES permit renewal process less complex. The pipeline inspection was completed in late September and early October. More than 28,000 feet were inspected. The report is anticipated soon and will be used to help identify locations for future inspection. Mr. Weir complemented the staffs at both DSRSD and Livermore for their efforts during the inspections.

The MCC project is also progressing smoothly. The bid packet was completed and posted on the website on October 16; a mandatory bidder's conference was held on October 28; one addendum was issued on November 5; and four bids were received on November 10, 2020. The final design engineer's estimate as listed in the bid packet was $2,300,000 to $2,500,000 and the bids came in under the estimate with a range from $2,222,222 to $2,424,000, with Royal Electric having the lowest responsive and responsible bid. A reference check was also positive.

The original project estimate was $1,065,000 and that was approved in the FY20/21 Budget. The cost increase was due to the addition of additional MCCs as well as safety enhancements. As a consequence, two action items are needed – a budget modification to increase the MCC Project cost to $2,500,000 and a Resolution awarding an agreement to Royal Electric. These two items are to be considered by the Board in Item Nos. 11 and 12.

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

11. Modification No. 1 to the Operating and Capital Budget for Fiscal Year 2020/21
Mr. Weir noted that this budget modification was only to increase the cost for the MCC Replacement Project and that would have no impact on the O&M Budget or the revenue from the Member Agencies. He also noted that the modification would have an impact on the Fund balance and that the annual contribution of $400,000 would be reviewed during the budget process.

Director Marchand motioned, seconded by Director Testa to approve Modification No. 1 to the Operating and Capital Budget for Fiscal Year 2020/21.

There were no comments from the public. The Motion passed unanimously (6-0) by a roll call vote.

12. Approval of a Resolution Awarding an Agreement for the Export Pump Station – MCC Replacement Project to Vellutini Corporation dba Royal Electric Company
Mr. Weir that this item was as described in Item Nos. 10 and 11. Approval would authorize 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.

Director Duarte motioned, seconded by Director Brown to approve Resolution No. 20-04 Awarding an Agreement for the Export Pump Station – MCC Replacement Project to Vellutini Corporation dba Royal Electric Company.

There were no comments from the public. The Motion passed unanimously (6-0) by a roll call vote.

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
Mr. Weir and Ms. Barnhill provided an overview of the negotiations with East Bay Dischargers Authority (EBDA) and described the outstanding issues. They indicated that participation of a subcommittee of the Board to meet with a comparable committee from EBDA could help move the negotiations toward conclusion. Since it is highly unlikely that all issues could be addressed prior to the expiration of the current extension, a six-month extension is also recommended.

Chair Woerner asked if there were any volunteers for the ad hoc subcommittee and Director Johnson expressed interest. Following discussion regarding the number of members of the subcommittee the Board agreed that two members was appropriate. Chair Woerner appointed Director Johnson and himself to the subcommittee.

Director Marchand motioned, seconded by Director Brown 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.

There were no comments from the public. The Motion passed unanimously (6-0) by a roll call vote.

14. 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. The Board reviewed a summary of legislation form CASA as well as CASA's Water Issues Summary and the Regulatory Issues Summary from Bay Area Clean Water Agencies (BACWA). Staff from DSRSD and Livermore noted that they have both been asked to participate in PFAS sampling by the Regional Board.

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

15. 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.

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

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

17. Closed Session
There being no further busines before the Board, Chair Woerner adjourned the Regular Session at 7:02 p.m. General Counsel Barnhill stated that the Board was going to meet in

closed session for a conference with Legal Counsel for Initiation of litigation pursuant to Government Code §54956.9(d)(4) (one potential case). Mr. Weir then initiated a Zoom Breakout Room and authorized only the Board, key member agency staff, himself, and General Counsel to participate. No members of the public were present, and no one was left in the main meeting room during the closed session.

18. Report from Closed Session
At 8:23 p.m. the Board returned from Closed Session. Mr. Weir closed the Zoom Breakout Room and participants returned to the initial Zoom meeting. General Counsel Barnhill reported that the Board took no reportable action.

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

20. Adjournment
There being no further action, Chair Woerner adjourned the meeting at 8:24 p.m.

Minutes Approved by the Board _____.

Charles V. Weir
General Manager

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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 December 31, 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 December 31, 2020 and period July 1, 2019 through December 31, 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 BALANCE SHEETS
July 2020 through December 2020

	Operation & Maintenance	EBDA Capacity	2011 Debt Service	Repair and Replacement Reserve: Joint-use Replacement	Repair and Replacement Reserve: Dual-use Replacement	Repair and Replacement Reserve: Sole-use Replacement	Total
ASSETS							
Cash and equivalents	$ 237,776	$ -	$ 26,847	$ 592,314	$ 12,109	$ 9,117	$ 878,162
Investments	487,424	-	30,259	15,690,022	430,851	1,612,061	18,250,618
Investments (LAIF FMV Adj)	5,201	-	12,744	63,294	1,692	6,215	89,146
Interest receivable	1,455,388	-	1,591,738	200,000	-	-	3,247,125
Due from members	293,707	-	-	-	-	-	293,707
Capital Assets, net of accumulated depreciation	-	3,030,305	-	100,372,962	52,920	3,584,152	107,040,339
Total assets	2,479,496	3,030,305	1,661,588	116,918,593	497,572	5,211,545	129,799,098
LIABILITIES							
Accounts payable	346,455	-	-	64,164	-	-	410,619
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	422,850	-	80,163,662	64,164	-	-	80,650,676
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	2,056,646	-	237,118	16,481,466	444,651	1,627,393	20,847,276
Total net assets	$ 2,056,646	$ 3,030,305	$ (78,502,075)	$ 116,854,427	$ 497,571	$ 5,211,545	$ 49,148,422

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
SCHEDULE OF SUB FUND ACCOUNT ACTIVITY
July 2020 through December 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	$ 1,098,471	$ -	$ 3,114,061	$ 139,800	$ -	$ -	$ 4,352,331	
Service charges - City of Pleasanton	1,053,559	-	2,664,008	139,800	-	-	3,857,367	
Service charges - City of Livermore	976,059	-	2,228,032	120,400	-	-	3,324,490	
Total operating revenues	3,128,088		8,006,100	400,000	-	-	11,534,188	
OPERATING EXPENSES								
Power	582,928	-	-	-	-	-	582,928	
LAVWMA share of EBDA O&M - Fixed	321,112	-	-	-	-	-	321,112	(1)
LAVWMA share of EBDA O&M - Variable	56,491	-	-	-	-	-	56,491	(1)
Operations agreement	599,166	-	-	194,624	-	-	793,790	
Professional services	186,432	-	-	-	-	-	186,432	(1)
Livermore sole use O&M	18,610	-	-	-	-	-	18,610	
Insurance	75,508				-		75,508	(1)
Repairs and Maintenance	45,949				-		45,949	(1)
Miscellaneous	233	-	147	2,187	59	217	2,843	
Total operating expenses	1,886,429	-	147	196,812	59	217	2,083,664	
Capital outlay				-			-	
Total operating expenses and capital outlay	1,886,429	-	147	196,812	59	217	2,083,664	
Operating income (loss)	1,241,659	-	8,005,953	203,188	(59)	(217)	9,450,524	
NON-OPERATING REVENUES (EXPENSES)								
Amortization/Depreciation	-	-	-	-	-	-	-	
Bond interest expense	-	-	(6,414,363)	-	-	-	(6,414,363)	
Other Income	-	-	-	-	-	-	-	
Interest income	3,098	-	300	33,234	901	3,296	40,829	
Total non-operating revenues (expenses)	3,098	-	(6,414,063)	33,234	901	3,296	(6,373,534)	
Changes in net assets	1,244,756		1,591,889	236,422	841	3,080	3,076,990	
NET ASSETS								
Net assets, beginning of period	494,712	3,030,305	(80,093,964)	116,935,183	496,730	5,208,465	46,071,432	
Prior Period adjustment	317,178			(317,178)			-	
Net assets, beginning of period restated	811,890	3,030,305	(80,093,964)	116,618,005	496,730	5,208,465	46,071,432	
Net asset transfers								
Net assets, end of period	$ 2,056,646	$ 3,030,305	$ (78,502,075)	$ 116,854,427	$ 497,571	$ 5,211,545	$ 49,148,422	

(1) Total of the noted expenses is $685,491.69. Details see General Management Expenses Listing.

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

	FYE 2020 Budget	FYE 2020 Actual	Variance	FYE 2021 Budget	FYE 2021 Actual		Variance
OPERATING REVENUES							
Service charges - DSRSD	$ 935,992	$ 1,002,289	$ 66,297	$ 1,022,075	$ 1,098,471		$ 76,396
Service charges - City of Pleasanton	1,137,742	1,217,674	79,932	1,230,725	1,053,559		(177,165)
Service charges - City of Livermore	1,012,266	1,141,935	129,669	1,092,599	976,059		(116,542)
Total operating revenues	3,086,000	3,361,898	275,898	3,345,400	3,128,088		(217,311)
OPERATING EXPENSES							
Power	1,200,000	504,349	(695,651)	1,250,000	582,928		(667,072)
LAVWMA share of EBDA O&M - Fixed	505,000	280,338	(224,662)	523,000	321,112	(1)	(201,888)
LAVWMA share of EBDA O&M - Variable	145,000	72,268	(72,732)	141,000	56,491	(1)	(84,509)
Operations agreement	921,000	405,145	(515,855)	938,000	599,166		(338,834)
Professional services	242,000	121,357	(120,643)	405,500	186,432	(1)	(219,068)
Livermore sole use O&M	25,000	17,530	(7,470)	25,000	18,610		(6,390)
Insurance	40,500	20,000	(20,500)	55,508	75,508	(1)	20,000
Permits	7,500	-	(7,500)	7,392	-		(7,392)
Repairs and Maintenance					45,949	(1)	
Miscellaneous	-	190	190	-	233		233
Total operating expenses	3,086,000	1,421,176	(1,664,823)	3,345,400	1,886,429		(1,504,920)
Capital outlay			-				-
Total operating expenses and capital outlay	3,086,000	1,421,176	(1,664,823)	3,345,400	1,886,429		(1,504,920)
Operating income (loss)	-	1,940,722	1,940,721	-	1,241,659		1,287,609
NON-OPERATING REVENUES (EXPENSES)							
Amortization/Depreciation	-	-	-	-	-		-
EBDA Debt	-	-	-	-	-		-
Interest income	-	7,456	7,456	-	3,098		3,098
Total non-operating revenues (expenses)	-	7,456	7,456	-	3,098		3,098
Net Income	$ -	$ 1,948,178	$ 1,948,177	$ -	$ 1,244,756		$ 1,290,707

(1) Total of the noted expenses is $685,491.69. Details see General Management Expenses Listing.

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
Treasurer's Report
Portfolio Summary
December 31, 2020

Investments	Par Value	Market Value	Book Value	% of Portfolio	Avg. Term	Avg. Days to Maturity	YTM
LAIF- Operating	$ 18,250,618	$ 18,250,618	$ 18,250,618	100.00	1	1	0.63%
	$ 18,250,618	**$ 18,250,618**	**$ 18,250,618**	**100.00**	**1**	**1**	**0.63%**

Average Daily Balance	$ 18,250,618
Effective Rate of Return	**0.63%**

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 Atwood — 02/02/21
Carol Atwood, Treasurer — Date

Livermore-Amador Valley Water Management Agency
General Management Expenses Listing
July - December, 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
9/4/2020	BARRETT BUSINESS SERVICES INC.	3158473	S. MONTAGUE: W/E 08/30/20	105629	10/15/2020	$156.00
9/17/2020	MAZE & ASSOCIATES	37399	LAVWMA AUDIT SVCS - JUNE 2020 (WORK IN SEPT.20)	106093	12/3/2020	$4,364.00
9/17/2020	RECORDS CONTROL SERVICES	20-29	LAVWMA: RECORDS IMPROVEMENT PROJECT - SEPT. 2020	105612	10/8/2020	$4,688.00
9/30/2020	JARVIS, FAY & GIBSON, LLP	14585	GENERAL COUNSEL SVCS - SEPT. 2020	105714	10/22/2020	$13,191.50
10/1/2020	EAST BAY DISCHARGERS AUTHORITY	3222	O&M ASSESSMENT - OCTOBER 1, 2020 - 2ND QTR	105927	11/12/2020	$232,364.52
10/1/2020	WEIR TECHNICAL SERVICES	LAVWMA_0920	MANAGEMENT SERVICES - SEPT. 2020	105693	10/22/2020	$10,166.62
10/1/2020	COMPUTER COURAGE INC.	46078	LAVWMA WEBSITE UPGRADE - SEPT 2020	105707	10/22/2020	$5,086.80
10/15/2020	EAST BAY DISCHARGERS AUTHORITY	3216	O&M ASSESSMENT - FINAL FY 2019/20	105927	11/12/2020	($18,506.19)
10/31/2020	JARVIS, FAY & GIBSON, LLP	14672	GENERAL COUNSEL SVCS - OCT. 2020	106049	11/25/2020	$15,032.50
11/1/2020	COMPUTER COURAGE INC.	46358	LAVWMA WEBSITE UPGRADE - OCT 2020	106039	11/25/2020	$3,970.35
11/1/2020	WEIR TECHNICAL SERVICES	LAVWMA_1020	MANAGEMENT SERVICES - OCT. 2020	106027	11/25/2020	$13,163.26
11/2/2020	RECORDS CONTROL SERVICES	20-32	LAVWMA: RECORDS IMPROVEMENT PROJECT - OCT. 2020	106059	11/25/2020	$4,845.60
11/24/2020	SWRCB - ATTN: ACCT OFFICE	WD-0180481	FY 21 PERMIT (FAC ID 2 019129001)	106157	12/10/2020	$20,000.00
11/25/2020	U.S. BANK EQUIPMENT FINANCE	5945177	TRUSTEE FEE 11/01/20 - 10/31/21 (2011 SWR BOND)	106255	12/23/2020	$1,020.00
11/30/2020	JARVIS, FAY & GIBSON, LLP	14758	GENERAL COUNSEL SVCS - NOV. 2020	106236	12/23/2020	$24,486.00

11/30/2020	MAZE & ASSOCIATES	38136	LAVWMA AUDIT SVCS - JUNE 2020 (WORK IN NOV.20)	106239	12/23/2020	$873.00
12/1/2020	COMPUTER COURAGE INC.	46616	LAVWMA WEBSITE UPGRADE - NOV. 2020	106231	12/23/2020	$1,534.95
12/3/2020	WEIR TECHNICAL SERVICES	LAVWMA_1120	MANAGEMENT SERVICES - NOV. 2020	106273	12/23/2020	$13,753.70
12/22/2020	WOERNER, BOB	122020 meeting	REGULAR BOARD MTG ATTENDANCE - 12/2020	106259	12/23/2020	$150.00
12/28/2020	RECORDS CONTROL SERVICES	20-37	LAVWMA: RECORDS IMPROVEMENT PROJECT - NOV. - DEC. 2020	106513	1/21/2021	$4,771.97
						$676,226.41

Expenses from journal entry and payroll:

Postage	$0.00
DSRSD Board Members	$150.00
Admin Support	$405.24
Accounting	$8,710.04
	$9,265.28

TOTAL: **$ 685,491.69**

ITEM NO. 8 STATUS REPORT ON LAVWMA DEBT REFINANCING

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

To: LAVWMA Board of Directors

From: Carol Atwood, LAVWMA Treasurer

Subject: Status Report on LAVWMA Debt Refinancing

Summary
The current bond market has provided an opportunity to the JPA to refund the LAVWMA Series 2011 bond issue, resulting in a substantial interest savings over the remaining life of the bonds. Staff contacted our financial advisors, Fieldman Rolapp & Associates, to perform an updated analysis, **Attachment No. 8,** last December to estimate projected savings for the JPA. Based on their analysis, refunding on or after August 1, 2021 (the call date) would result in a net present value (NPV) savings of $13.7 million, of 21.3%. This would equate to approximately $1.4 million in annual cash flow savings from a reduction in interest payments. The cost to refund is approximately $484,000 plus staff costs for the project.

The existing bonds require LAVWMA to pay annual installments with interest rates of approximately 4.79%. Interest on the new issue is projected to range from 3.5% to 5%. Although interest rates are subject to change, the market as of February 1, 2021 is holding consistent with low interest rate projections.

Staff intends to start this process in April of this year. The process will take approximately three months and will be coordinated by DSRSD. The cities of Livermore and Pleasanton will also be involved, but to a lesser extent, as financial information will be needed for the prospectus.

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

Attachments
Estimated Refunding of Sewer Revenue Bonds Series 2011 Closing 08-01-2021

SOURCES AND USES OF FUNDS

Outstanding Debt Service
Sewer Refunding Revenue Bonds, Series 2021
Refunding of Outstanding LAVWMA Sewer Revenue Refunding Bonds, Series 2011
Market Conditions as of December, 2020
Preliminary, subject to change

Dated Date	08/01/2021
Delivery Date	08/01/2021

Sources:	
Bond Proceeds:	
Par Amount	52,520,000.00
Premium	12,385,501.70
	64,905,501.70

Uses:	
Refunding Escrow Deposits:	
Cash Deposit	64,420,000.00
Delivery Date Expenses:	
Cost of Issuance	300,000.00
Underwriter's Discount	183,820.00
	483,820.00
Other Uses of Funds:	
Additional Proceeds	1,681.70
	64,905,501.70

Note: Assumes 8/1/2021 debt service payment on 2011 Bonds is paid in full.

SUMMARY OF REFUNDING RESULTS

Outstanding Debt Service
Sewer Refunding Revenue Bonds, Series 2021
Refunding of Outstanding LAVWMA Sewer Revenue Refunding Bonds, Series 2011
Market Conditions as of December, 2020
Preliminary, subject to change

Dated Date	08/01/2021
Delivery Date	08/01/2021
Arbitrage yield	0.693887%
Escrow yield	0.000000%
Value of Negative Arbitrage	
Bond Par Amount	52,520,000.00
True Interest Cost	0.746685%
Net Interest Cost	0.859655%
Average Coupon	4.791052%
Average Life	5.909
Par amount of refunded bonds	64,420,000.00
Average coupon of refunded bonds	4.545129%
Average life of refunded bonds	5.879
PV of prior debt to 08/01/2021 @ 0.693887%	78,622,201.69
Net PV Savings	13,718,381.69
Percentage savings of refunded bonds	21.295221%
Percentage savings of refunding bonds	26.120300%

BOND SUMMARY STATISTICS

Outstanding Debt Service
Sewer Refunding Revenue Bonds, Series 2021
Refunding of Outstanding LAVWMA Sewer Revenue Refunding Bonds, Series 2011
Market Conditions as of December, 2020
Preliminary, subject to change

Dated Date	08/01/2021
Delivery Date	08/01/2021
First Coupon	02/01/2022
Last Maturity	08/01/2031
Arbitrage Yield	0.693887%
True Interest Cost (TIC)	0.746685%
Net Interest Cost (NIC)	0.859655%
All-In TIC	0.833300%
Average Coupon	4.791052%
Average Life (years)	5.909
Weighted Average Maturity (years)	6.113
Duration of Issue (years)	5.389
Par Amount	52,520,000.00
Bond Proceeds	64,905,501.70
Total Interest	14,869,750.00
Net Interest	2,668,068.30
Total Debt Service	67,389,750.00
Maximum Annual Debt Service	6,634,400.00
Average Annual Debt Service	6,738,975.00
Underwriter's Fees (per $1000)	
Average Takedown	
Other Fee	3.500000
Total Underwriter's Discount	3.500000
Bid Price	123.232448

Bond Component	*Par Value*	*Price*	*Average Coupon*	*Average Life*	*PV of 1 bp change*
Bond Component	52,520,000.00	123.582	4.791%	5.909	34,645.30
	52,520,000.00			5.909	34,645.30

	TIC	All-In TIC	Arbitrage Yield
Par Value	52,520,000.00	52,520,000.00	52,520,000.00
+ Accrued Interest			
+ Premium (Discount)	12,385,501.70	12,385,501.70	12,385,501.70
- Underwriter's Discount	-183,820.00	-183,820.00	
- Cost of Issuance Expense		-300,000.00	
- Other Amounts			
Target Value	64,721,681.70	64,421,681.70	64,905,501.70
Target Date	08/01/2021	08/01/2021	08/01/2021
Yield	0.746685%	0.833300%	0.693887%

SAVINGS

Outstanding Debt Service
Sewer Refunding Revenue Bonds, Series 2021
Refunding of Outstanding LAVWMA Sewer Revenue Refunding Bonds, Series 2011
Market Conditions as of December, 2020
Preliminary, subject to change

Date	*Prior Debt Service*	*Refunding Debt Service*	*Savings*	*Present Value to 08/01/2021 @ 0.6938873%*
06/30/2022	1,468,237.50	1,280,575.00	187,662.50	187,013.67
06/30/2023	8,001,600.00	6,597,650.00	1,403,950.00	1,393,704.84
06/30/2024	8,041,175.00	6,634,400.00	1,406,775.00	1,386,821.91
06/30/2025	8,004,125.00	6,600,150.00	1,403,975.00	1,374,597.79
06/30/2026	8,003,875.00	6,600,275.00	1,403,600.00	1,364,839.72
06/30/2027	8,030,125.00	6,622,775.00	1,407,350.00	1,359,033.57
06/30/2028	8,002,375.00	6,597,650.00	1,404,725.00	1,347,232.79
06/30/2029	8,003,500.00	6,599,775.00	1,403,725.00	1,337,083.21
06/30/2030	8,029,481.25	6,622,275.00	1,407,206.25	1,331,164.24
06/30/2031	8,027,306.25	6,619,525.00	1,407,781.25	1,322,545.30
06/30/2032	8,021,512.50	6,614,700.00	1,406,812.50	1,312,662.96
	81,633,312.50	67,389,750.00	14,243,562.50	13,716,699.99

Savings Summary

PV of savings from cash flow	13,716,699.99
Plus: Refunding funds on hand	1,681.70
Net PV Savings	13,718,381.69

BOND PRICING

Outstanding Debt Service
Sewer Refunding Revenue Bonds, Series 2021
Refunding of Outstanding LAVWMA Sewer Revenue Refunding Bonds, Series 2011
Market Conditions as of December, 2020
Preliminary, subject to change

Bond Component	*Maturity Date*	*Amount*	*Rate*	*Yield*	*Price*	*Premium (-Discount)*
Bond Component:						
	08/01/2022	4,140,000	5.000%	0.200%	104.792	198,388.80
	08/01/2023	4,390,000	5.000%	0.250%	109.470	415,733.00
	08/01/2024	4,580,000	5.000%	0.300%	114.026	642,390.80
	08/01/2025	4,815,000	5.000%	0.340%	118.498	890,678.70
	08/01/2026	5,085,000	5.000%	0.420%	122.637	1,151,091.45
	08/01/2027	5,320,000	5.000%	0.510%	126.498	1,409,693.60
	08/01/2028	5,595,000	5.000%	0.640%	129.799	1,667,254.05
	08/01/2029	5,905,000	5.000%	0.780%	132.666	1,928,927.30
	08/01/2030	6,205,000	5.000%	0.860%	135.780	2,220,149.00
	08/01/2031	6,485,000	4.000%	0.980%	128.700	1,861,195.00
		52,520,000				12,385,501.70

Dated Date	08/01/2021	
Delivery Date	08/01/2021	
First Coupon	02/01/2022	
Par Amount	52,520,000.00	
Premium	12,385,501.70	
Production	64,905,501.70	123.582448%
Underwriter's Discount	-183,820.00	-0.350000%
Purchase Price	64,721,681.70	123.232448%
Accrued Interest		
Net Proceeds	64,721,681.70	

SUMMARY OF BONDS REFUNDED

Outstanding Debt Service
Sewer Refunding Revenue Bonds, Series 2021
Refunding of Outstanding LAVWMA Sewer Revenue Refunding Bonds, Series 2011
Market Conditions as of December, 2020
Preliminary, subject to change

Bond	*Maturity Date*	*Interest Rate*	*Par Amount*	*Call Date*	*Call Price*
2011 Sewer Revenue Refunding Bonds (Livermore - Amador Valley Water Management Agency), 2011_SEW, BOND:					
	08/01/2022	5.000%	5,195,000.00	08/01/2021	100.000
	08/01/2023	3.500%	5,460,000.00	08/01/2021	100.000
	08/01/2024	5.000%	5,660,000.00	08/01/2021	100.000
	08/01/2025	5.000%	5,950,000.00	08/01/2021	100.000
	08/01/2026	4.000%	6,250,000.00	08/01/2021	100.000
	08/01/2027	5.000%	6,510,000.00	08/01/2021	100.000
	08/01/2028	5.000%	6,845,000.00	08/01/2021	100.000
	08/01/2029	4.250%	7,195,000.00	08/01/2021	100.000
	08/01/2030	4.375%	7,510,000.00	08/01/2021	100.000
	08/01/2031	4.500%	7,845,000.00	08/01/2021	100.000
			64,420,000.00		

PRIOR BOND DEBT SERVICE

Outstanding Debt Service
Sewer Refunding Revenue Bonds, Series 2021
Refunding of Outstanding LAVWMA Sewer Revenue Refunding Bonds, Series 2011
Market Conditions as of December, 2020
Preliminary, subject to change

Period Ending	*Principal*	*Coupon*	*Interest*	*Debt Service*
06/30/2022			1,468,237.50	1,468,237.50
06/30/2023	5,195,000	5.000%	2,806,600.00	8,001,600.00
06/30/2024	5,460,000	3.500%	2,581,175.00	8,041,175.00
06/30/2025	5,660,000	5.000%	2,344,125.00	8,004,125.00
06/30/2026	5,950,000	5.000%	2,053,875.00	8,003,875.00
06/30/2027	6,250,000	4.000%	1,780,125.00	8,030,125.00
06/30/2028	6,510,000	5.000%	1,492,375.00	8,002,375.00
06/30/2029	6,845,000	5.000%	1,158,500.00	8,003,500.00
06/30/2030	7,195,000	4.250%	834,481.25	8,029,481.25
06/30/2031	7,510,000	4.375%	517,306.25	8,027,306.25
06/30/2032	7,845,000	4.500%	176,512.50	8,021,512.50
	64,420,000		17,213,312.50	81,633,312.50

BOND DEBT SERVICE

Outstanding Debt Service
Sewer Refunding Revenue Bonds, Series 2021
Refunding of Outstanding LAVWMA Sewer Revenue Refunding Bonds, Series 2011
Market Conditions as of December, 2020
Preliminary, subject to change

Period Ending	*Principal*	*Coupon*	*Interest*	*Debt Service*
06/30/2022			1,280,575	1,280,575
06/30/2023	4,140,000	5.000%	2,457,650	6,597,650
06/30/2024	4,390,000	5.000%	2,244,400	6,634,400
06/30/2025	4,580,000	5.000%	2,020,150	6,600,150
06/30/2026	4,815,000	5.000%	1,785,275	6,600,275
06/30/2027	5,085,000	5.000%	1,537,775	6,622,775
06/30/2028	5,320,000	5.000%	1,277,650	6,597,650
06/30/2029	5,595,000	5.000%	1,004,775	6,599,775
06/30/2030	5,905,000	5.000%	717,275	6,622,275
06/30/2031	6,205,000	5.000%	414,525	6,619,525
06/30/2032	6,485,000	4.000%	129,700	6,614,700
	52,520,000		14,869,750	67,389,750

ESCROW REQUIREMENTS

Outstanding Debt Service
Sewer Refunding Revenue Bonds, Series 2021
Refunding of Outstanding LAVWMA Sewer Revenue Refunding Bonds, Series 2011
Market Conditions as of December, 2020
Preliminary, subject to change

Period Ending	*Principal Redeemed*	*Total*
08/01/2021	64,420,000.00	64,420,000.00
	64,420,000.00	64,420,000.00

ESCROW COST

Outstanding Debt Service
Sewer Refunding Revenue Bonds, Series 2021
Refunding of Outstanding LAVWMA Sewer Revenue Refunding Bonds, Series 2011
Market Conditions as of December, 2020
Preliminary, subject to change

Purchase Date	*Cost of Securities*	*Cash Deposit*	*Total Escrow Cost*
08/01/2021		64,420,000.00	64,420,000.00
	0	64,420,000.00	64,420,000.00

ESCROW SUFFICIENCY

Outstanding Debt Service
Sewer Refunding Revenue Bonds, Series 2021
Refunding of Outstanding LAVWMA Sewer Revenue Refunding Bonds, Series 2011
Market Conditions as of December, 2020
Preliminary, subject to change

Date	*Escrow Requirement*	*Net Escrow Receipts*	*Excess Receipts*	*Excess Balance*
06/30/2022	64,420,000.00	64,420,000.00		
	64,420,000.00	64,420,000.00	0.00	

ESCROW STATISTICS

Outstanding Debt Service
Sewer Refunding Revenue Bonds, Series 2021
Refunding of Outstanding LAVWMA Sewer Revenue Refunding Bonds, Series 2011
Market Conditions as of December, 2020
Preliminary, subject to change

Total Escrow Cost	*Modified Duration (years)*	*Yield to Receipt Date*	*Yield to Disbursement Date*	*Perfect Escrow Cost*	*Value of Negative Arbitrage*	*Cost of Dead Time*
Global Proceeds Escrow:						
64,420,000.00				64,420,000.00		
64,420,000.00				64,420,000.00	0.00	0.00

Delivery date	08/01/2021
Arbitrage yield	0.693887%

ITEM NO. 9 LAVWMA QUARTERLY REPORT OF OPERATIONS, 2nd QUARTER, FY 2020-2021

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

Summary
LAVWMA's Quarterly Report of Operations for the 2nd 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 45.8% of the year to date budget. This season's rainfall has been less than normal through December 31, 2020, although rainfall has picked up in January 2021.

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

Attachment
LAVWMA's Quarterly Report of Operations for the 2nd Quarter, FY2020-2021.

LAVWMA

QUARTERLY REPORT OF OPERATIONS 2nd Quarter, FY 2020-2021

Dublin San Ramon Services District

Water, wastewater, recycled water

QUARTERLY REPORT OF OPERATIONS
LAVWMA PUMPING AND CONVEYANCE SYSTEM
2nd Quarter FY 2020-2021: October to December 2020

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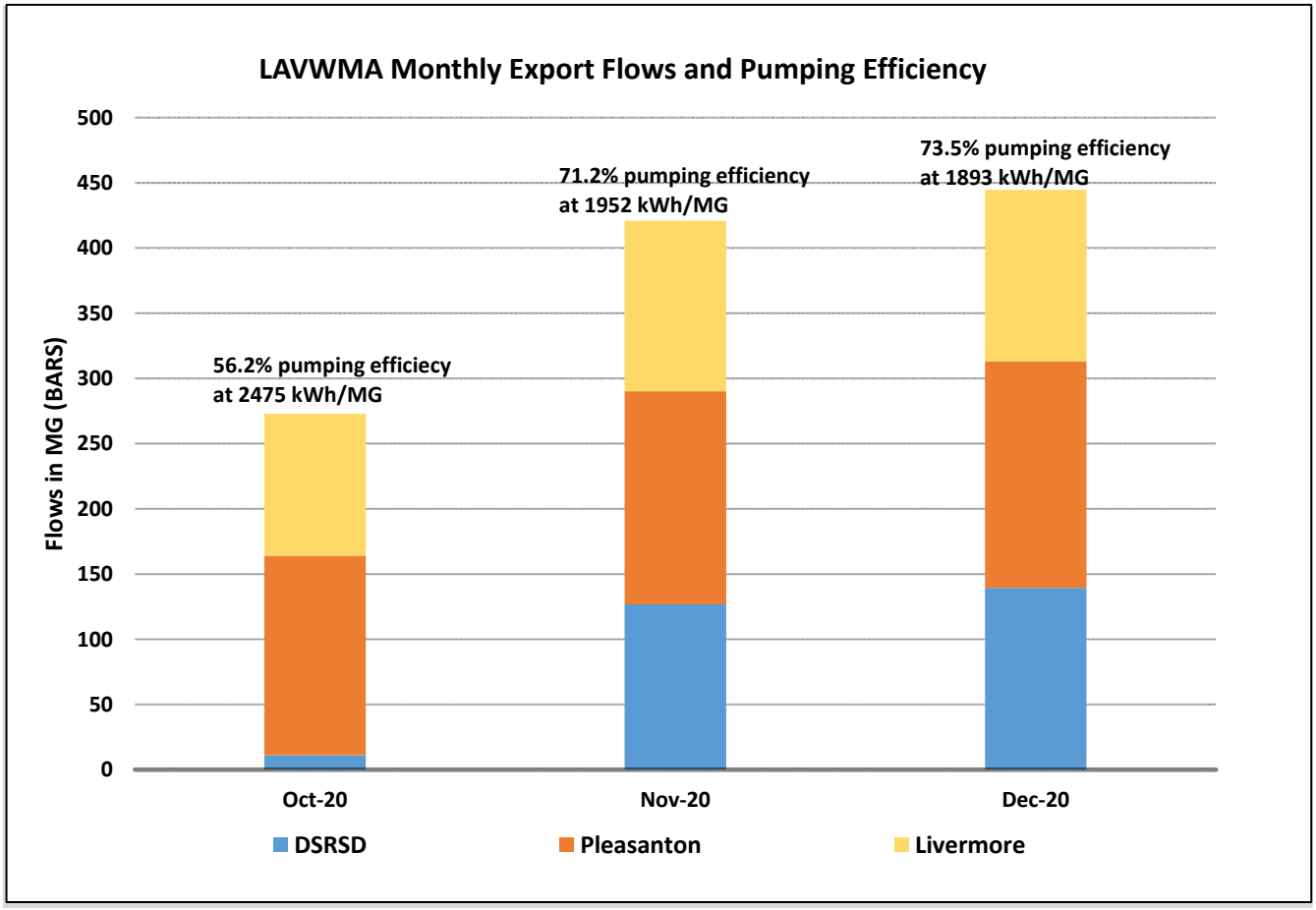
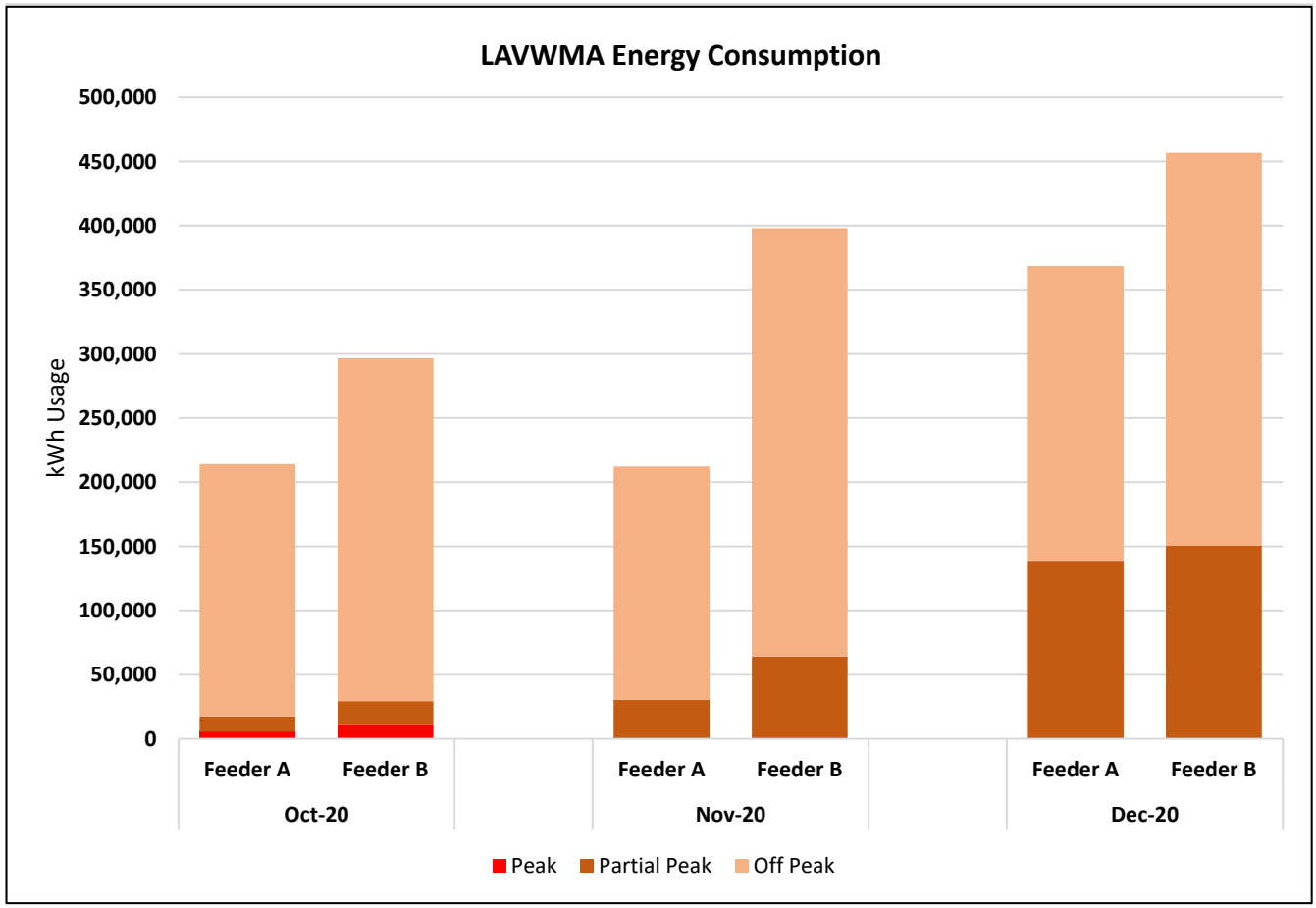
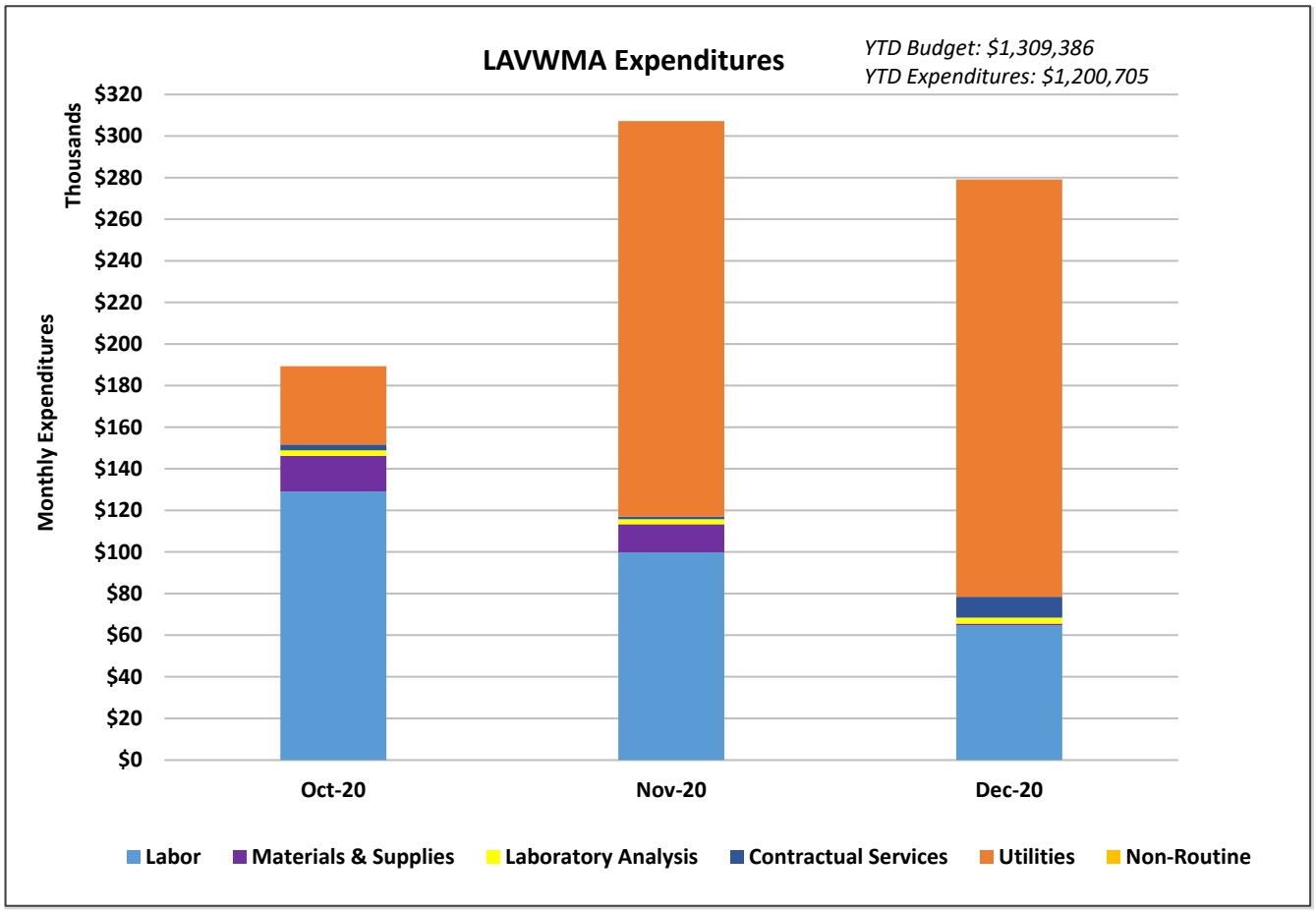
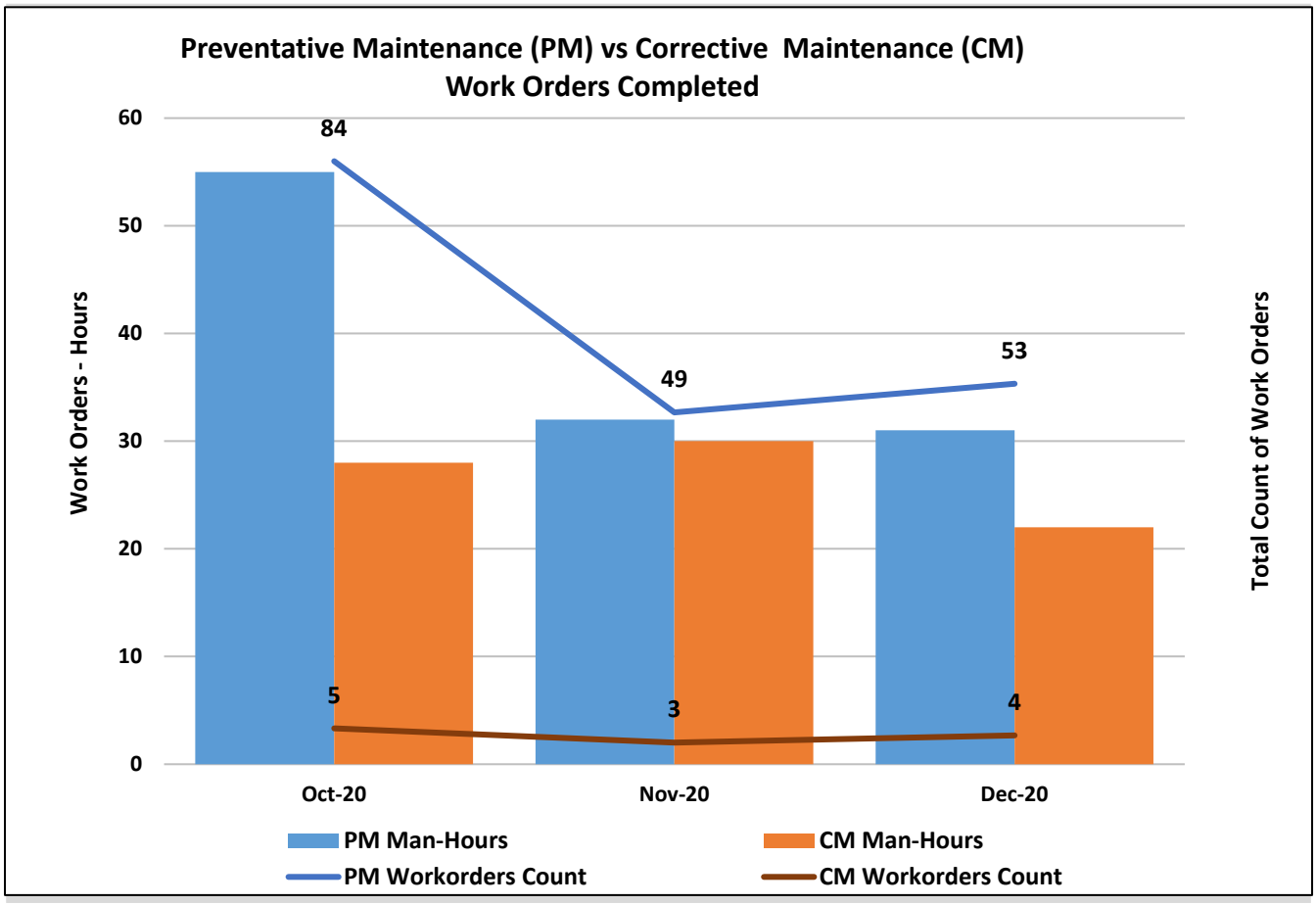

LAVWMA Monthly Export Flows and Pumping Efficiency
Flows in MG (BARS)
500
450
400
350
300
250
200
150
100
50
0
56.2% pumping efficiecy
at 2475 kWh/MG
71.2% pumping efficiency
at 1952 kWh/MG
73.5% pumping efficiency
at 1893 kWh/MG
Oct-20
Nov-20
Dec-20
DSRSD
Pleasanton
Livermore


LAVWMA Energy Consumption
kWh Usage
500,000
450,000
400,000
350,000
300,000
250,000
200,000
150,000
100,000
50,000
0
Feeder A
Feeder B
Oct-20
Feeder A
Feeder B
Nov-20
Feeder A
Feeder B
Dec-20
Peak
Partial Peak
Off Peak

LAVWMA FYE 2021 SECOND QUARTER AT A GLANCE





QUARTERLY REPORT OF OPERATIONS
LAVWMA PUMPING AND CONVEYANCE SYSTEM
2nd Quarter FY 2020-2021: October to December 2020

1. EXECUTIVE SUMMARY

The Livermore-Amador Valley Water Management Agency (LAVWMA) pumping and effluent conveyance system operated normally during the second quarter of FY 2020-2021. During the quarter, a total of 1,138 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 67%, with an average electrical cost of $451 per million gallons, or $147 per acre-foot.

Total year-to-date operations and maintenance (O&M) expense is $1,200,705 or 45.8% of the O&M annual budget amount of $2,618,772 and the overall cost of operation is $682 per million gallons pumped or $222 per acre-foot.

2. OPERATIONS

Of the total 1,138 million gallons of effluent conveyed through the LAVWMA system, approximately 371 million gallons was from the City of Livermore and 490 MG from City of Pleasanton, and 277 from DSRSD. 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.

The following are some noteworthy operations activities during the quarter:

- Operations staff replaced the calcium thiosulfate at the LAVWMA export pump station in Pleasanton and at the San Leandro Sample Station in early October. This involved draining the calcium thiosulfate tanks prior to delivery of new supply and coordinating with the residential Heron Bay HOA adjacent to at the San Leandro sample station location to block off street parking and roundabout before and during delivery of the chemical.
- Responded to “water bandit” alarm at the San Leandro Sample Station on October 17 when a transient person entered the site and turned on the eyewash station.
- Coordinated with City of Livermore for shutdown of effluent pumping on Mondays thru Wednesday for two consecutive weeks in early October to support CCTV inspection of the LAVWMA pipeline.
- Laboratory staff continue on their efforts to prepare the laboratory for the new ELAP State requirements and upcoming NPDES permit renewal changes for analysis. On November 25, 2020, the fecal coliform result was 1,600 MPN, the high value of this test may have been due to the long holding time of water in the LAVWMA basins due to the resealing project.

3. MAINTENANCE

During the quarter, 118 hours were spent to complete 186 preventative maintenance (PM) work orders and 80 hours to complete 12 corrective maintenance (CM) work orders on LAVWMA equipment and systems. The following are some noteworthy maintenance activities during the quarter:

- Electrical:
  - Assist with pipeline inspection by locking out all 10 motors.
  - Continue to work on the new vibration sensors.
  - Worked with PG&E to confirm LAVWMA’s and Zone 7’s panels in the field.

- Instrumentation and Controls:
  - Started the re-programming of the control system for the new PG&E Time of Use schedule that takes effect March 1, 2021.
  - Replaced batteries for the remote monitoring equipment at LAVWMA PS and all 14 rectifier panels.
  - Re-programmed the Storm and Power Save Modes for the pump controls system to allow operators to operate any number of pumps at any time of year.
  - Upgraded the SCADA historian which includes LAVWMA PS and SLSS data.
  - Added pump protection to the control system to prevent a pump from running if a discharge pressure is detected; this will prevent a pump from running if the downstream check valve did not seal correctly.

- Mechanical:
  - All export pumps discharge valves were removed and rebuilt; with one replaced with new spare check valve in stock.
  - Export pump #1 suffered catastrophic failure and was sent to pump shop for evaluation.
  - Export pump #1 motor damaged is beyond repair and a replacement is in process.
  - The three export pumps #6, #8 and #10, that were removed and replaced with new pumps, are all at the pump shop for evaluation for possible rebuild and efficiency upgrade.

4. CAPITAL PROJECTS

- Pump Station Basin Joint Sealing: The notice to proceed was issued and work started. LAVWMA basin number 1 has been fully completed and joints have been resealed. Basin number 2 has been almost completely resealed, however, there was concrete work added to the original scope of work which will address cracking in non-joint areas. This change order was approved by the LAVWMA General Manager and DSRSD's Engineering Services Manager. The completion date for the additional work is anticipated by mid-February, weather permitting.

- Export Pump Station MCC Replacement Project (Project No. LAVWMA-2020-2): this project has been awarded to Royal Electric and notice to proceed was issued and the contractor's project plan was submitted and approved.

5. BUDGET VARIANCE AND EXPENSES

First quarter labor expenses totaled $293,570 for 1,869 man-hours of effort, an average of 3.6 full time equivalents (FTEs). O&M expenses for the quarter including labor, supplies, laboratory analysis, contractual services, and utilities totaled $775,693, for an average cost of $682 per million gallons pumped or $222 per acre-foot. The total expense for the Livermore sole use pipeline for the quarter was $2,916.

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

6. ITEMS OF INTEREST

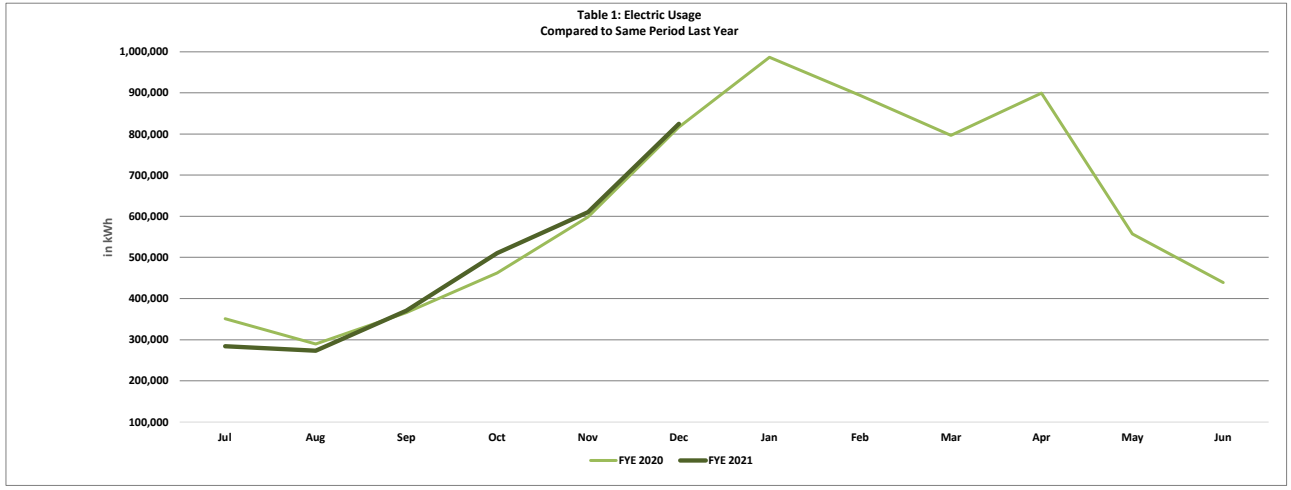
DSRSD continues to run operations for the LAVWMA system under the COVID-19 State and County orders. Staff continues involvement with the current capital project schedules, EBDA-LAVWMA agreement, and upcoming NDPES permit renewal. LAVWMA will be impacted by the new PG&E

Time of Use (TOU) schedule changes starting next quarter on March 1, 2021. Staff is in process of evaluating options to best operate the LAVWMA pump station under the new conditions. Staff has been more involved in the capital projects that in the past and this trend will continue in the coming years. The October electrical costs were due to pumping the stored water held back as part of the LAVWMA pipeline inspection project. The LAVWMA basins high levels during the inspection can be viewed on Table 3 and the flow increase can be viewed on Table 4. The pump down of the full basins during PG&E demand times resulted in peak and demand charges as seen on the LAVWMA energy consumption graph.

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	**214,120**	**5,517**	**11,933**	**196,670**	**$61,606**	**296,646**	**10,944**	**18,465**	**267,237**	**$80,824**	**30**	**510,766**	**$0.28**	**$142,430**	**206**	**2,475**	**$690**	**$225**	**56.2%**
Nov-20	**212,107**	**0**	**30,325**	**181,782**	**$44,606**	**398,055**	**1,101**	**63,096**	**333,858**	**$71,165**	**30**	**610,162**	**$0.19**	**$115,771**	**313**	**1,952**	**$370**	**$121**	**71.2%**
Dec-20	**368,516**	**0**	**138,067**	**230,449**	**$59,869**	**456,806**	**0**	**150,494**	**306,312**	**$68,169**	**31**	**825,322**	**$0.16**	**$128,038**	**436**	**1,893**	**$294**	**$96**	**73.5%**
Jan-21																			
Feb-21																			
Mar-21																			
Apr-21																			
May-21																			
Jun-21																			
Quarter																			
Average	264,914				$55,360	383,836				$73,386	30	648,750	$0.21	$128,747	318	2,106	**$451**	**$147**	**67.0%**
Total	794,743				$166,081	1,151,507				$220,158	91	1,946,250		$386,240	955	6,319			
Minimum	212,107				$44,606	296,646				$68,169	30	510,766	$0.16	$115,771	206	1,893	$294	$96	56.2%
Maximum	368,516				$61,606	456,806				$80,824	31	825,322	$0.28	$142,430	436	2,475	$690	$225	73.5%
YTD																			
Average	178,958				$39,546	300,037				$56,793	30	478,995	$0.21	$96,339	228	2,174	$458	$149	64.6%
Total	1,073,746				$237,278	1,800,224				$340,755	182	2,873,970		$578,034	1,367	13,043			
Minimum	857				$9,287	177,763				$34,043	29	273,430	$0.16	$58,159	129	1,893	$294	$96	56.2%
Maximum	368,516				$61,606	456,806				$80,824	32	825,322	$0.28	$142,430	436	2,475	$690	$225	73.5%



NOTES:

1) To calculate pumping efficiency, read dates, electric usage, and export flows are **matched to PG&E billing periods**: 9/14/20 - 10/13/20 for October; 10/14/20 - 11/12/20 for November; 11/13/20 - 12/13/20 for December.

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).

3) Low pumping efficiency in October is related to the pipeline inspection when the system was pumping at odd times and also repumping water due to the need to drain the lines to allow inspection.

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	**129**	**14**	**127**	**282**	**0**	**90**	**280**	**24**	**273**	**154**	**1,374**	**18.5%**
Nov-20	**0**	**8**	**404**	**435**	**0**	**131**	**360**	**324**	**213**	**4**	**1,879**	**26.1%**
Dec-20	**0**	**0**	**496**	**383**	**0**	**60**	**314**	**381**	**329**	**91**	**2,056**	**27.6%**
Jan-21												
Feb-21												
Mar-21												
Apr-21												
May-21												
Jun-21												
Quarter												
Average	43	7	342	367	0	94	318	243	272	83	1,769	24.1%
Total	129	22	1,027	1,100	0	282	955	729	816	249	5,308	
Minimum	0	0	127	282	0	60	280	24	213	4	1,374	18.5%
Maximum	129	14	496	435	0	131	360	381	329	154	2,056	27.6%
YTD												
Average	48	31	264	200	0	79	282	141	190	54	1,290	17.6%
Total	289	189	1,585	1,197	1	473	1,695	844	1,142	327	7,740	
Minimum	0	0	71	0	0	1	99	0	0	1	623	8.4%
Maximum	129	165	496	435	1	181	360	381	329	154	2,056	27.6%

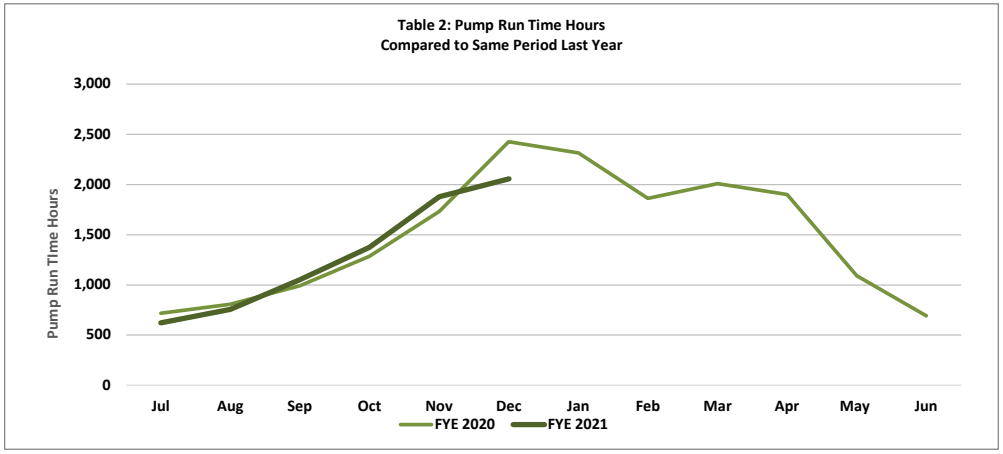
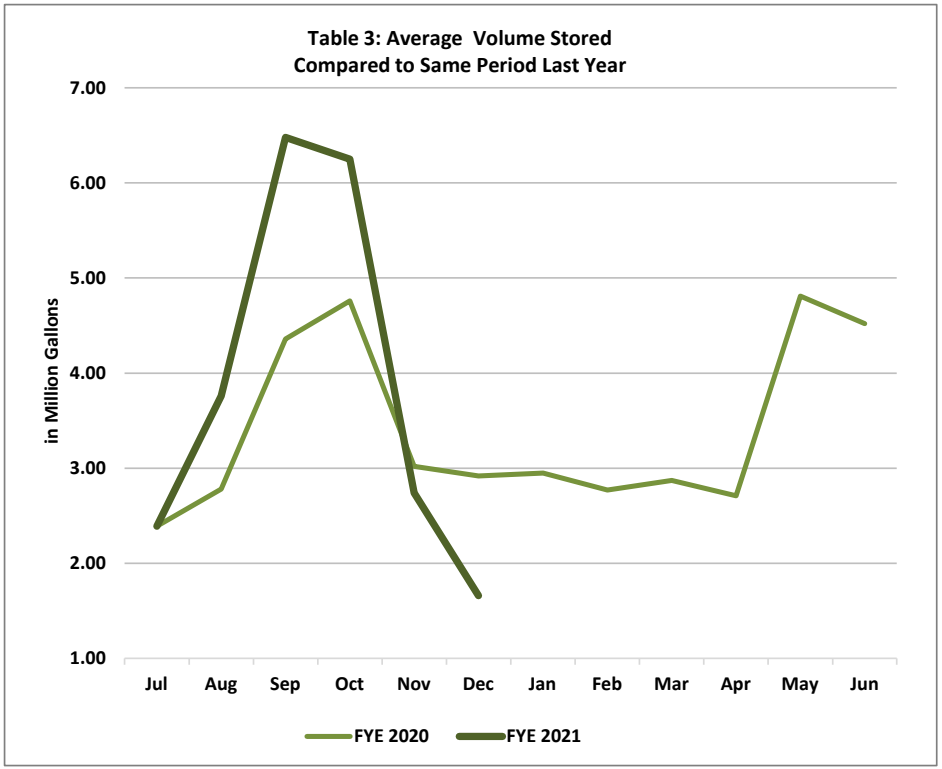


TABLE 3 - Monthly Average Storage Basin Levels and Volume

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

Month	Average Daily Volume Basin No. 1 Feet	Basin No. 2 Feet	Basin No. 3 Feet	Average Volume Stored MG	Storage Available MG	Storage Basin Utilization %
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	**3.36**	**0.87**	**7.40**	**6.25**	**18**	**34.7%**
Nov-20	**4.86**	**0.22**	**0.69**	**2.74**	**18**	**15.2%**
Dec-20	**0.36**	**1.20**	**2.02**	**1.66**	**18**	**9.2%**
Jan-21						
Feb-21						
Mar-21						
Apr-21						
May-21						
Jun-21						
Quarter						
Average	2.86	0.76	3.37	3.55		0.20
Minimum	0.36	0.22	0.69	1.66		0.09
Maximum	4.86	1.20	7.40	6.25		0.35
YTD						
Average	3.22	0.62	3.90	3.88		21.6%
Minimum	0.36	0.07	0.69	1.66		9.2%
Maximum	4.86	1.23	7.40	6.48		36.0%

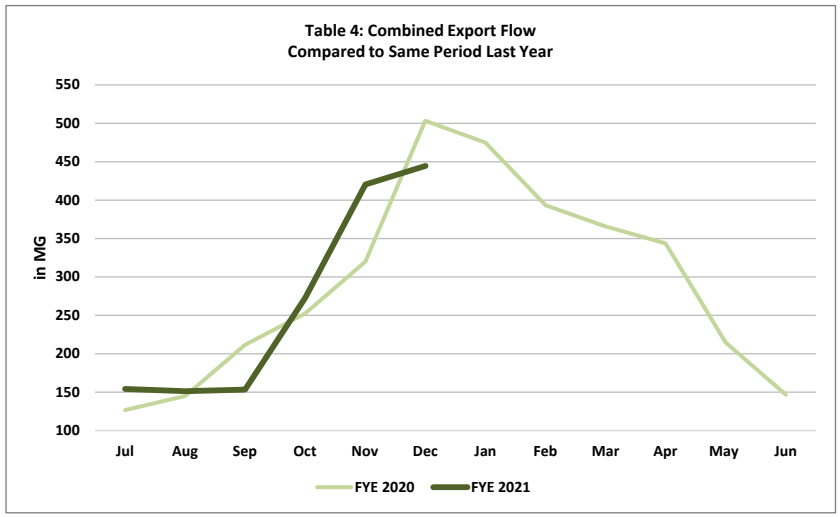


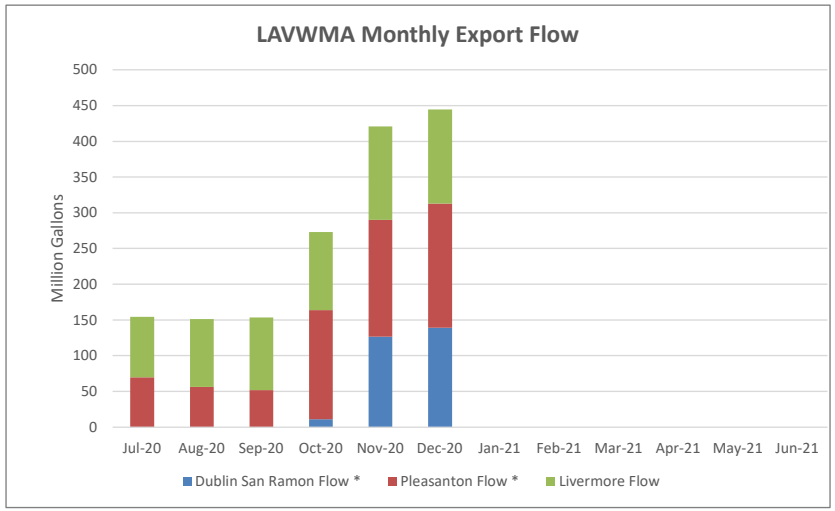
Note: Total available storage volume is 18 million gallons.

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	**10.97**	**152.95**	**108.95**	**272.87**	
Nov-20	**126.72**	**163.35**	**130.65**	**420.72**	
Dec-20	**139.31**	**173.70**	**131.57**	**444.58**	**1,138.17**
Jan-21					
Feb-21					
Mar-21					0.00
Apr-21					
May-21					
Jun-21					0.00
Quarter					
Total	277.00	490.00	371.17	1,138.17	
Average	92.33	163.33	123.72	379.39	
Minimum	10.97	152.95	108.95	272.87	
Maximum	139.31	173.70	131.57	444.58	
YTD					
Total	277.00	667.88	652.45	1,597.34	
Average	46.17	111.31	108.74	266.22	
Minimum	0.00	51.96	84.98	151.43	
Maximum	139.31	173.70	131.57	444.58	





* 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	**788.3**	**4.5**	**$129,096**	**$274,900**	**27.2%**	**$668,730**	**272.87**	**837**
Nov-20	**684.5**	**3.9**	**$99,804**	**$337,133**	**33.4%**	**$568,926**	**420.72**	**1,291**
Dec-20	**396.0**	**2.3**	**$64,670**	**$399,366**	**39.5%**	**$504,256**	**444.58**	**1,364**
Jan-21								
Feb-21								
Mar-21								
Apr-21								
May-21								
Jun-21								
QUARTER								
Total	**1,868.8**		**$293,570**				1,138.17	3,493
Average	622.9	**3.6**	$97,857				379.39	1,164
Minimum	396.0	2.3	$64,670				272.87	837
Maximum	788.3	4.5	$129,096				444.58	1,364
YTD								
Total YTD	3,253.8		$506,236		**50.1%**	$504,256	1,597.34	4,902
Average YTD	542.3	3.1	$84,373				266.22	817
Minimum	396.0	2.3	$62,233				151.43	465
Maximum	788.3	4.5	$129,096				444.58	1,364

Notes: October labor is unusually high due to the pipeline inspection project.

DUBLIN SAN RAMON SERVICES DISTRICT

FYE 2020-2021 Report of Operations

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	**$129,096**	**$60,246**	**$189,341**	**$614,353**	**23.5%**	**$2,004,419**	**$694**	**$226**	**272.87**	**837**
Nov-20	**$99,804**	**$207,370**	**$307,174**	**$921,527**	**35.2%**	**$1,697,245**	**$730**	**$238**	**420.72**	**1,291**
Dec-20	**$64,670**	**$214,508**	**$279,178**	**$1,200,705**	**45.8%**	**$1,418,067**	**$628**	**$205**	**444.58**	**1,364**
Jan-21										
Feb-21										
Mar-21										
Apr-21										
May-21										
Jun-21										
QUARTER										
Total	$293,570	$482,123	**$775,693**				**$682**	**$222**	1,138.17	3,493
Average	$97,857	$160,708	$258,564						379.39	1,164
Minimum	$64,670	$60,246	$189,341				$628	$205	272.87	837
Maximum	$129,096	$214,508	$307,174				$730	$238	444.58	1,364
YTD										
Total YTD	$506,236	$694,469	**$1,200,705**				**$752**	**$245**	1,597.34	4,902
Average YTD	$84,373	$115,745	$200,117							
Minimum	$62,233	$43,140	$116,475				$628	$205	151.43	465
Maximum	$129,096	$214,508	$307,174				$1,213	$395	444.58	1,364

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

Q2 Notes: a) Landscaping invoices ($1561) for April and May not paid until October; b) AT&T invoices for Sep, Oct and Nov were all paid in November; c) PG&E invoices for Feeder A and Feeder B ($142,430) were paid in November

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	**$2,527**	**$0**	**$2,527**
Nov-20	**$389**	**$163**	**$552**
Dec-20	**$0**	**$274**	**$274**
Jan-21			
Feb-21			
Mar-21			
Apr-21			
May-21			
Jun-21			
Quarter			
Total	**$2,916**	**$437**	**$3,353**
Average	$972	$146	$1,118
Minimum	$0	$0	$274
Maximum	$2,527	$274	$2,527
YTD			
YTD Total	$3,110	$950	$4,060
YTD Average	$518	$158	$677
YTD Minimum	$0	$0	$0
YTD Maximum	$2,527	$342	$2,527

LAVWMA BUDGET COMPARISON TO ACTUAL EXPENSES

Current FY Period: 6

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	$129,096	$99,804	$64,670							$506,236	$505,246
Subtotal	**$1,010,492**	**$62,233**	**$77,098**	**$73,335**	**$129,096**	**$99,804**	**$64,670**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$506,236**	**$505,246**
Materials & Supplies															
Operations Supplies	$12,200		$300	$9	$115	$13,533	$134							$14,091	$6,100
Mechanical Supplies	$25,000	$132	$2,977	$393	$16,885	$17	$407							$20,811	$12,500
Electrical Supplies	$25,500		$31,159		$110	$12	$340							$31,621	$12,750
Subtotal	**$62,700**	**$132**	**$34,436**	**$402**	**$17,110**	**$13,562**	**$881**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$66,523**	**$31,350**
Laboratory Analysis															
Compliance Testing	$11,300	$965	$772	$965	$772	$772	$965							$5,211	$5,650
Operational Support Testing	$4,000	$356	$356	$356	$356	$356	$356							$2,136	$2,000
Special Sampling	$15,000	$1,570	$1,256	$1,256	$1,570	$1,256	$1,570							$8,478	$7,500
Subtotal	**$30,300**	**$2,891**	**$2,384**	**$2,577**	**$2,698**	**$2,384**	**$2,891**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$15,825**	**$15,150**
Contractual Services															
Sub-surface Repairs	$5,000													$0	$2,500
Street Sweeping	$5,000		$493	$394	$400	$500	$400							$2,187	$2,500
Cathodic Protection Survey & Repairs	$30,000													$0	$15,000
Underground Service Alert	$3,800		$3,517											$3,517	$1,900
SCADA software maintenance contract	$10,000		$4,673											$4,673	$5,000
HVAC Maintenance/Repairs	$750													$0	$375
Termite/Pest Control	$900													$0	$450
Landscape/weed maintenance	$8,000			$980	$1,561		$1,960							$4,502	$4,000
Janitorial Service	$3,000	$495	$495	$795	$795	$795	$795							$4,170	$1,500
Fire Extinguisher Maintenance	$200													$0	$100
Postage/Shipping Charges	$250													$0	$125
Professional Services, misc	$10,000		$59				$6,884							$6,943	$5,000
Subtotal	**$76,900**	**$495**	**$9,236**	**$2,169**	**$2,756**	**$1,295**	**$10,040**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$25,991**	**$38,450**
Utilities															
Electricity (PG&E)	$1,420,300	$58,803	$59,710	$37,629	$37,682	$187,477	$199,944							$581,246	$710,150
Water & Sewer (Pleasanton)	$1,000	$157		$166		$162								$485	$500
Water (EBMUD)	$880	$186		$197		$250								$633	$440
Telephone/communications	$4,500		$775			$2,239	$752							$3,766	$2,250
WW Treatment (DSRSD)	$2,500													$0	$1,250
Subtotal	**$1,429,180**	**$59,146**	**$60,485**	**$37,992**	**$37,682**	**$190,129**	**$200,696**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$586,129**	**$714,590**
Non-Routine															
Corrosion Studies/ Inspections	$500													$0	$250
Time delay switches for electrical switchgear	$8,000													$0	$4,000
Subtotal	**$8,500**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$4,250**
Monthly Total		**$124,897**	**$183,640**	**$116,475**	**$189,341**	**$307,174**	**$279,178**	**$0**	**$0**	**$0**	**$0**	**$0**	**$0**	**$1,200,705**	**$1,309,036**
YTD Total	**$2,618,072**	**$124,897**	**$308,537**	**$425,012**	**$614,353**	**$921,527**	**$1,200,705**								
Combined Export Flow, mg	**3,524**	**154**	**151**	**153**	**273**	**421**	**445**							**1,597**	**1,762**
Pumping Efficiency															
Monthly Cost, $/mg		**$809**	**$1,213**	**$760**	**$694**	**$730**	**$628**								
YTD Running Cost, $/mg	**$743**	**$809**	**$1,009**	**$926**	**$839**	**$799**	**$752**								

Q1 Notes:

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

September labor has $7,634.88 which is actually for Workday; a credit issued in Nov

Q2 Notes:

$1561 landscaping invoices for April and May not paid until October

$7634.88 Workday credit in labor that was erroneously coded to LAVWMA O&M and billed in September

AT&T invoices for Sep $744, Oct $746, Nov $749 all paid in Nov

PG&E October invoices for Feeder A $61,606 and Feeder B $80,824 paid in November (total $142,430); PG&E November invoice for Feeder B $71,165 paid in December

LAVWMA
BUDGET COMPARISON TO ACTUAL EXPENSES: LABOR

Current FY Period: 6

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	-	-	-		-	-	-	-	18.00	36.00
Water/Wastewater Sys Lead Op	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Water/Wastewater Sys OP IV-On Call	0	-	-	-	7.25	-	-	-	-	-	-	-	-	7.25	-
Water/Wastewater Sys OP IV	64	-	-	-	-	-	-	-	-	-	-	-	-	-	32.00
Water/Wastewater Sys OP III	0	-	-	-	10.75	-	-	-	-	-	-	-	-	10.75	-
Water/Wastewater Sys OP II	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Maintenance Worker	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Supervisor	8	-	-	-	-	-	-	-	-	-	-	-	-	-	4.00
Division 52 - WWTP	2,996	207.50	225.00	204.00	254.25	280.50	164.00	-	-	-	-	-	-	1,335.25	1,498.00
Process Lead Operator IV/V	200	1.00	4.00	15.00	9.00	7.00	7.00							43.00	100.00
Senior WWTP Operator III	2,746	41.50	45.00	29.00	38.50	74.50	43.00							271.50	1,373.00
Operator In Training	0	160.00	90.00	50.00	12.00	4.00	10.00							326.00	
Operator II	0		80.00	102.00	190.75	181.00	96.00							649.75	-
Operator II (SLSS)	0													-	-
Supervisor	50	5.00	6.00	8.00	4.00	14.00	8.00							45.00	25.00
Division 53 - MECH	1,741	120.00	228.00	183.00	459.50	226.50	115.00	-	-	-	-	-	-	1,332.00	870.50
Senior Mechanic-Crane Cert	380					1.00	14.00							15.00	190.00
Senior Mechanic - USA	82						19.00							19.00	41.00
Maintenance Worker	0													-	
Mechanic I/II	1,229	34.00	90.00	67.00	284.50	30.00								505.50	614.50
Mechanic II-Crane Cert	0	46.50	103.50	71.00	152.50	127.00	69.50							570.00	-
Mechanic I/II - USA	0	23.50	25.50	32.00	9.50	26.00								116.50	-
Mechanic II-Crane Cert - USA	0	16.00	9.00	13.00	13.00	42.50	12.50							106.00	-
Supervisor	50	-	-	-	-	-		-	-	-	-	-		-	25.00
Division 54 - ELEC	924	86.00	32.00	76.50	40.50	171.50	102.00	-	-	-	-	-	-	508.50	462.00
Senior Instrument/Controls Tech	12													-	6.00
Instrument Tech	480	29.00	25.00	55.50	9.50	44.50								163.50	240.00
OPS Control Sys Spec	144	1.00		2.00		69.00	87.00							159.00	72.00
Senior Electrician	36													-	18.00
Electrician I/II	240	50.00	7.00	17.00	31.00	54.00	15.00							174.00	120.00
Supervisor	12	6.00		2.00		4.00								12.00	6.00
Division 26 - SAFETY	48	-	-	-	-	-	-	-	-	-	-	-	-	-	24.00
Safety Officer	48	-	-	-	-	-	-	-	-	-	-	-		-	24.00
Division 40 - ENG	100	6.50	13.50	3.00	16.00	6.00	15.00	-	-	-	-	-	-	60.00	50.00
Associate/Senior Civil Engineer-SME	100	6.50	13.50	3.00	16.00	6.00	8.00							53.00	50.00
Construction Inspector I							7.00							7.00	-
Total Estimated Personnel Hours	5,881														
FTE	2.83														
Total Monthly Hours		420.00	498.50	466.50	788.25	684.50	396.00	-	-	-	-	-	-	3,253.75	2,940.50

San Leandro Sampling Station Microbiology Results

4th Quarter 2020

Collection Date	Fecal Coliform MPN/100ml	Enterococcus MPN/100ml
10/02/20	4	<10
10/09/20	<2	<10
10/15/20	11	<10
10/22/20	2	<10
10/29/20	<2	<10
11/05/20	23	<10
11/12/20	2	<10
11/19/20	4	10
11/25/20	1600	10
12/03/20	13	<10
12/10/20	13	<10
12/17/20	<2	<10
12/24/20	<2	<10
12/31/20	2	<10

Median	3	<10
Geometric Mean	6.2	10

Note:
High fecal coliform on 11/25/20 possibly due to LAVWMA basin #1 that has been in use longer than it should have beeen and not rotated because of the sealing project.

Monthly Report for LAVWMA - October 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	5.51					7.66	8.90	0.521	0.001
2	9.24					7.81	7.92	0.654	0.001
3	9.24					7.80	8.64	3.014	0.001
4	9.24					7.91	8.03	5.854	0.001
5	9.24					7.87	8.02	5.053	0.001
6	7.24					7.72	7.89	4.810	0.001
7	9.24	2.1	73	4.3	150	7.74	7.85	5.956	0.001
8	6.18					7.72	7.88	5.204	0.001
9	10.18					7.78	7.88	5.566	0.001
10	7.18					7.78	7.83	4.876	0.001
11	10.65					7.77	7.86	4.326	0.001
12	10.65					7.78	8.18	3.968	0.001
13	8.84					7.66	8.54	2.786	0.001
14	7.20	3.1	85	3.5	95	7.66	7.95	2.760	0.001
15	7.34					7.74	7.95	2.618	0.001
16	8.63					7.75	8.17	2.617	0.001
17	8.43					7.71	7.88	3.510	0.001
18	9.43					7.66	7.81	4.029	0.001
19	10.43					7.65	7.76	3.970	0.001
20	8.43					7.61	7.80	3.224	0.001
21	7.98					7.67	7.79	3.357	0.001
22	8.46	3.6	115	4.6	147	7.68	7.75	2.913	0.001
23	7.11					7.67	7.78	2.859	0.001
24	7.11					7.62	7.80	2.707	0.001
25	7.11					7.54	7.70	2.754	0.001
26	9.46					7.69	7.93	2.969	0.001
27	9.44					7.58	7.76	2.576	0.001
28	10.56	4.3	172	4.5	180	7.63	7.73	3.460	0.001
29	11.73					7.66	7.79	2.623	0.001
30	10.73					7.65	7.70	2.400	0.001
31	10.73					7.65	7.74	2.193	0.001
MAX.	11.73	4.3	172	4.6	180	7.91	8.90	5.96	0.001
MIN.	5.51	2.1	73	3.5	95	7.54	7.70	0.52	0.001
AVE.	8.80	3.3	111	4.2	143	7.70	7.94	3.42	0.001
TOTAL	272.87								

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: 

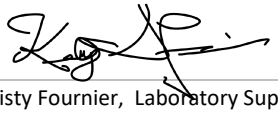
Kristy Fournier, Laboratory Supervisor

Date: 01/27/2021

Monthly Report for LAVWMA - November 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	12.82					7.62	7.75	2.141	0.001
2	12.82					7.58	7.87	2.248	0.001
3	12.82					7.68	7.89	3.078	0.001
4	12.82	2.8	136	5.4	262	7.63	7.88	3.250	0.001
5	12.82					7.64	7.80	2.661	0.001
6	11.15					7.66	7.80	2.188	0.001
7	10.39					7.67	7.80	1.986	0.001
8	11.36					7.69	7.86	1.688	0.001
9	14.28					7.77	7.94	2.132	0.001
10	14.17					7.71	7.84	2.469	0.001
11	12.92	7.5	367	10.8	528	7.72	7.89	2.866	0.001
12	14.00					7.63	7.73	2.685	0.001
13	12.65					7.67	7.82	3.152	0.001
14	13.85					7.66	7.76	3.123	0.001
15	15.40					7.63	7.72	3.021	0.001
16	15.40					7.59	7.74	2.836	0.001
17	16.41					7.66	7.82	2.927	0.001
18	12.32	11.5	536	14.2	662	7.64	7.76	2.401	0.001
19	14.08					7.58	7.66	2.717	0.001
20	16.55					7.58	7.67	2.904	0.001
21	15.96					7.60	7.67	3.053	0.001
22	15.96					7.58	7.65	3.438	0.001
23	15.33					7.55	7.77	2.924	0.001
24	16.06					7.67	7.73	2.489	0.001
25	14.51	14.6	802	19.9	1093	7.61	7.76	3.036	0.001
26	13.91					7.63	7.70	3.089	0.001
27	15.80					7.60	7.66	3.009	0.001
28	14.08					7.58	7.65	3.267	0.001
29	15.06					7.53	7.63	3.599	0.001
30	15.06					7.53	7.61	3.800	0.001
MAX.	16.55	14.6	802	19.9	1093	7.77	7.94	3.80	0.001
MIN.	10.39	2.8	136	5.4	262	7.53	7.61	1.69	0.001
AVE.	14.02	9.1	460	12.6	636	7.63	7.76	2.81	0.001
TOTAL	420.72								

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: 

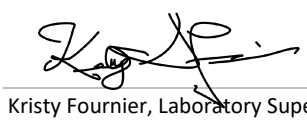
Kristy Fournier, Laboratory Supervisor

Date: 01/27/2021

Monthly Report for LAVWMA - December 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	12.04					7.53	7.66	3.837	0.001
2	12.04	12.1	551	14.9	679	7.55	7.65	3.401	0.001
3	12.04					7.60	7.67	3.747	0.001
4	14.62					7.63	7.71	4.072	0.001
5	14.39					7.62	7.71	4.298	0.001
6	14.64					7.53	7.65	3.019	0.001
7	12.89					7.56	7.63	3.187	0.001
8	12.76					7.56	7.67	3.067	0.001
9	12.75	8.7	420	12.6	608	7.58	7.66	2.370	0.001
10	11.80					7.58	7.67	2.046	0.001
11	12.23					7.57	7.68	1.986	0.001
12	10.08					7.58	7.67	2.185	0.001
13	15.45					7.63	7.67	2.370	0.001
14	16.00					7.58	7.66	2.341	0.001
15	14.64					7.58	7.65	3.255	0.001
16	13.59	6.3	324	11.0	566	7.61	7.65	3.280	0.001
17	16.64					7.64	7.73	2.687	0.001
18	17.45					7.60	7.70	2.446	0.001
19	16.55					7.60	7.66	2.593	0.001
20	16.19					7.58	7.66	2.900	0.001
21	14.78					7.56	7.63	2.763	0.001
22	13.16					7.58	7.66	3.121	0.001
23	15.84	7.5	450	10.8	648	7.63	7.71	2.963	0.001
24	15.80					7.63	7.70	3.382	0.001
25	16.52					7.65	7.72	3.039	0.001
26	15.35					7.65	7.72	3.046	0.001
27	14.69					7.66	7.71	2.832	0.001
28	14.69					7.62	7.70	2.911	0.001
29	14.69					7.61	7.67	2.929	0.001
30	14.69	3.8	211	7.4	411	7.65	7.76	3.118	0.001
31	15.57					7.70	7.76	3.318	0.001
MAX.	17.45	12.1	551	14.9	679	7.70	7.76	4.30	0.001
MIN.	10.08	3.8	211	7.4	411	7.53	7.63	1.99	0.001
AVE.	14.34	7.7	391	11.3	582	7.60	7.68	2.98	0.001
TOTAL	444.58								

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: 
Kristy Fournier, Laboratory Supervisor

Date: 01/27/2021

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
10/13/20	1046	23.9	174	450	7.5	7.0	0.5
11/10/20	866	21.3	178	478	7.6	7.0	0.6
12/01/20	754	20.0	110	334	7.2	7.3	-0.1
MAXIMUM	1046	23.9	178	478	7.6	7.3	0.6
MINIMUM	754	20.0	110	334	7.2	7.0	-0.1
AVERAGE	889	21.7	154	421	7.4	7.1	0.3

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
10/13/20	946	25.8	172	388	7.3	7.0	0.3
11/10/20	764	23.4	156	398	7.5	7.1	0.4
12/01/20	818	22.1	142	362	7.4	7.2	0.3
MAXIMUM	946	25.8	172	398	7.5	7.2	0.4
MINIMUM	764	22.1	142	362	7.3	7.0	0.3
AVERAGE	843	23.8	157	383	7.4	7.1	0.3

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
10/07/20	640	24.0	70	297	7.5	7.6	0.0
11/02/20	580	23.0	73	296	7.6	7.6	0.0
12/03/20	630	21.0	79	324	7.7	7.5	0.2
MAXIMUM	640	24.0	79	324	7.7	7.6	0.2
MINIMUM	580	21.0	70	296	7.5	7.5	0.0
AVERAGE	617	22.7	74	306	7.6	7.6	0.1

ITEM NO. 10 PROJECT STATUS REPORTS - RISK ANALYSIS OF THE PUMP STATION / FAILURE ANALYSIS OF THE FORCEMAIN SYSTEM PROJECT AND ENGINEERING SERVICES AND CONSTRUCTION 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.

DTN Engineers was awarded the engineering portion of this project. Once the design for the project was completed a formal bid packet for the construction portion of the project was issued. 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.

Royal Electric was the low bidder and the Board approved a Resolution awarding the agreement for the project to Vellutini Corporation DBA Royal Electric Company on November 18, 2020. They were issued a Notice to Proceed on December 16, 2020. Due to the staging complexity of the project, it is anticipated that the project will take 360 days to complete. The contract with Royal Electric has a total not to exceed value of $2,222,222.

On a related matter, proposals were solicited from three firms to provide construction management services for this project. Following evaluation of the proposals, LAVWMA 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.

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.

One of the main aspects of this project was to assist LAVWMA in determining the capacity needs in the East Bay Dischargers Authority (EBDA) system. The current agreement with EBDA calls for 19.72 MGD of firm capacity and a maximum wet weather capacity of 41.2 MGD, with any flow above 19.72 MGD subject to interruption should the EBDA agencies require their own maximum capacities. At the beginning it was thought that LAVWMA would need to specify a firm capacity ranging from 20 to 30 MGD. HS ran many models using from from 20 to 30 MGD in one MGD increments with a variety of storage options. Those options ranged from using only a small portion of the storage available at the pump station and the two treatment plants to maximizing the storage prior to using the permitted emergency outfalls allowed in LAVWMA's NPDES permit.

Each of the model runs produced predictions on the frequency of discharges to San Lorenzo Creek for use in EBDA negotiations as well as in preparing the application to renew LAVWMA's NPDES permit. As a consequence LAVWMA has numerous model runs that will be valuable for future planning by LAVWMA and the treatment plants.

Ultimately, the EBDA negotiations resulted in using the same capacity conditions as in the existing agreement. All of the modelling efforts are now not needed for EBDA negotiations or the NPDES permit renewal, but will be used in the future as noted above. All of this is reflected in the revised Term Sheet from EBDA, which will be considered by the Board in **Agenda Item No. 11**.

The pipeline inspection portion of this project was conducted in late September 2020. More than 28,000 feet of pipeline were inspected between September 21 – October 8, 2020. The final inspection report should be received in late February or early March 2020. The report will also recommend additional inspection areas for this coming year. A draft set of maps showing the inspection results for each location has been received and is being evaluated. It does not appear that there are very many locations that will be of significant concern and require repairs. Staff anticipates that this information will be incorporated into recommended projects for the FY2021/22 Budget, which will be presented at the next Board meeting.

Another key element of this project is a technical report providing recommendations for the San Leandro Sample Station (SLSS) Design Improvements Project. The purpose of this project is to automate the system to prevent DSRSD staff from having to travel to the site during wet weather conditions and to provide better control over emergency discharges to San Lorenzo Creek during times that peak flows are interrupted by EBDA. The current system is exceedingly difficult to operate and control and much of the equipment is antiquated or nearing the end of its useful life. LAVWMA and DSRSD staff estimated the cost for this project at $175,000 in the approved FY2020/21 Budget.

During the course of the HS study on the SLSS system it was determined that additional improvements would be required to accomplish the intended goals. Numerous additional items need to be replaced, including the following:

1. 24-inch flow control valve
2. 20-inch flow control valve
3. Two 30-inch flow meters
4. Two chlorine residual analyzers
5. Miscellaneous piping and fittings to accommodate different pipe sizes
6. Improvements to the Programmable Logic Controller (PLC), Human Machine Interface (HMI), Supervisory Control and Data Acquisition System (SCADA), networking and programming

The total estimated cost of the construction portion of this project is $400,000. Adding in design engineering, engineering services during construction, construction management and inspection, and DSRSD staff time adds another $170,000 for a total project cost of $570,000. To implement this project at the new projected cost, a second modification to the FY2020/21 budget is recommended.

As will be discussed in the General Manager’s report, the NPDES permit renewal process us underway. One issue was raised by LAVWMA’s permit writer, James Parrish, related to possible

sea level rise at the outfall for the emergency discharge through the SLSS. Nothing specific has been done by LAVWMA on this topic, other than to continue to work with EBDA to ensure the protection of all EBDA facilities. Based on the Regional Board's question, and the news article included as **Attachment 10.a,** it would be prudent to add a task to the SLSS project to review the issues, and if appropriate, design a modification to the outfall that would allow continued discharge to San Lorenzo Creek if sea level rise would create problems. It is estimated that an additional $100,000 for analysis, design, and construction would be required. This would make the total project $670,000. Please refer to Agenda Item No. 12, Modification No. 2 to the Operating and Capital Budget for Fiscal Year 2020/21 for additional information and Board action.

As discussed in the next agenda item, one condition in the revised EBDA Term Sheet requires LAVWMA to have a detectable level of chlorine residual at the SLSS. This condition provides additional justification for the increased cost for the SLSS Design Improvements Project.

MCC Replacement Design and Construction Project Status

As noted above, DTN Engineers is the design engineer, Royal Electric is the contractor and Psomas is the construction manager. This project is proceeding smoothly and all COVID-19 requirements are being followed. A preconstruction meeting was held on January 26, 2021 via Zoom. A copy of the minutes from that meeting is included as **Attachment No. 10.b** for the Board's information.

This project involves replacement of the MCCs at the pump station. It must be conducted in stages such that power remains on at all times even when one of the main PG&E services is out of service for replacement of its respective MCC. The submittal process with begin in March and equipment delivery in July and August 2021. The project is on target for completion by December 2021.

One additional task in the DTN scope is Task 7, Write a Technical Memo to discuss new PG&E Time-of-use rate and review the current Export Pump Station Operational Strategy and recommend possible enhancement to maximize energy savings. LAVWMA's PG&E bills are quite complex as noted in **Attachment No. 10.c**, which provides a comparison with the current rate structure shown at the top for rate Schedule E-20 and at the bottom for the new rate Schedule B-20. The B-20 schedule is also shown graphically in **Attachment No. 10.d**. Under the new rate structure there will always be a peak period from 4:00 p.m. to 9:00 p.m. every day. LAVWMA will need to avoid pumping during those times to avoid the demand charges, particularly in the summer period. The summer demand charge is $26.35/kW as compared to $1.84/kW the rest of the year.

The PG&E bills include charges for the following items as shown in **Attachment 10.e**:

1. Customer Charge. This charge is constant and is a charge for having service provided by PG&E. it is independent of actual usage.
2. Demand Charge Max Peak. This charge is applied to the highest kW demand during the peak pricing period. The highlighted item in **10.e** is an example of a high peak demand charge that was an anomaly as it occurred during the pipeline inspection project and could not be avoided.
3. Demand Charge Part Peak. This charge is applied to the highest kW demand during the partial peak pricing period. With the new B-20 schedule the partial peak only occurs for four hours per day during the four summer months.
4. Demand Charge Max Demand. This charge is applied to the highest kW demand during each 24 hour period. It is independent of the time of day. This is essentially a second demand charge applied by PG&E. Also note that there is no separate demand change for usage during the off peak and super off peak time periods.
5. Energy Charge Peak. This charge applies to power consumption during the peak period. If you use 100 kW for one hour that is 100 kWh and you will be charged for the cost of 100 kWh.
6. Energy Charge Part Peak. Same as previous item except it applies during the partial perk period only.
7. Energy Charge Off Peak. Same as previous item except is applies during the off peak period only.
8. Power Factor Adjustment. This is typically a credit for LAVWMA and is a measure of the real power used by the system versus the apparent power flowing to the circuit.
9. Energy Commission Tax. This is a tax charged by the California Energy Commission and goes to public purpose projects.
10. PDP Program Credit. This is the peak day pricing program offered by PG&E and is related to not using power during peak power demand periods.
11. Additional Item Not Shown. One item not shown in **10.e**, that will apply to the new rate structure is the Energy Charge Super Off Peak as that item was not applicable to the previous rate structure.

Attachment No. 10.f is a graphical presentation of the various PG&E charges, excluding power factor adjustment, energy commission tax, and PDP program credits, for calendar year 2020. The data includes the charges for both of LAVWMA's meters. The graph clearly shows that electrical costs can be very high during the wet weather season even when the large majority of costs are from the off peak periods. The high demand charges in October, orange and yellow, could not be avoided as previously noted. The graph also shows that DSRSD staff is going a good job of managing pumping and electrical costs.

The new rate structure will require changes in the current operations and DSRSD staff will be working closely with DTN engineers to develop operating procedures to minimize costs to the maximum extent possible.

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.

Attachments
10.a News Article, Bay Area Sewage Systems at Risk at Seas Rise
10.b MCC Project, January 26, 2021 Pre-Construction Meeting Minutes
10.c PG&E Time of Use Schedule Rate Table
10.d PG&E Time of Use Schedule Graphic
10.e Summary of PG&E Costs for 2020
10.f Chart of PG&E Monthly Costs by Charge Type

NBC BAY AREA **INVESTIGATIVE**

Bay Area Sewage Systems at Risk as Seas Rise

When sewage spewed out of a shower in a San Francisco home, climate change experts say it may be a sign of things to come as sea levels rise around the Bay. An NBC Bay Area investigation reveals how low-lying sewage treatment plants could fail in the coming years, four of those facilities are vulnerable to flooding within the next decade.

By Stephen Stock, Robert Campos, Mark Villarreal, Michael Horn and Sean Myers • Feb 2, 2021

An NBC Bay Area investigation found 30 out of 39 sewage treatment plants located around San Francisco Bay Area are at risk of flooding as sea levels rise due to climate change. Four of those plants could flood with as little as 9.84 inches of sea level rise. That's an amount that state analysts say is a possibility by 2030. If and when that happens, toilets won't flush, and in some cases, sewage could back up into homes, whether residents live in the hills or along the coast

. *Map: Sean Myers/NBC Bay Area*

Sewage treatment plants in the San Francisco Bay Area were built on low lying areas along the bay so that wastewater from homes could flow downhill to the facilities using nature's gravity rather than more expensive machine-driven pumping stations.

“There is a lot of vulnerability of these systems and we really need to start considering them and how we might adapt to future sea level rise,” said Dr. Michelle Hummel, lead author of a UC Berkeley study that analyzed the sewage plants. “Even if your home itself is not flooding, you could lose access and wastewater service. So, there's a lot of potential impacts that we'll see as an entire region. And it won't just be restricted to folks who live right along the shoreline.” “The goal of this study was to just highlight the magnitude of this potential threat. And most of us don't think about wastewater on a daily basis when we flush out toilets,” Dr. Hummel said.

NBC Bay Area’s Investigative Unit reviewed data from both the UC Berkeley study and from another independent study conducted by the Bay Area Clean Water Agencies. The combined data show that 30 out of 39 Bay Area sewage plants are at risk of failing as sea levels rise. The list below shows the water level at which each plant is expected to flood.

Sea Level Rise Risk at Bay Area Sewage Treatment Plants

Thirty Bay Area sewage treatment pla could be impacted by sea level rise, according to an analysis by NBC Bay Area's Investigative Unit. Together, those 30 facilities serve 6,132,646 people.

Page 1 of 3 >

AGU Plant Name	City	First SLR Threat (Inches)	Service Population
Palo Alto WQCP	Palo Alto	9.84	233,005
Paradise Cove WWTP	Tiburon	9.84	400
San Mateo WWTP	San Mateo	9.84	143,649
Benicia WWTP	Benicia	9.84	13,682
Silicon Valley Clean Water WWTP	Redwood City	19.69	211,108
Alvarado WWTP	Union City	19.69	337,560
Millbrae WPCP	Millbrae	29.53	21,500
Novato WWTP	Novato	29.53	56,251
South San Francisco-San Bruno SQCP	South San Francisco	29.53	122,538
Sunnyvale WPCP	Sunnyvale	39.37	174,000
Mt. View Sanitary District WWTP	Martinez	39.37	29,000
San Francisco International Airport WWTP	San Francisco	39.37	80,000
Central Marin Sanitation Agency WWTP	San Rafael	39.37	111,927
Sewerage Agency of Southern Marin WWTP	Mill Valley	39.37	25,000
Oro Loma-Castro Valley WWTP	San Lorenzo	39.37	182,000

** Modeling does not give specific threat in inches but predicts it will be impacted within 30 years*

Table: Sean Myers/NBC Bay Area • Source: Bay Area Clean Water Agencies and UC Berkeley • Created with Datawrapper

Source: Bay Area Clean Water Agencies and UC Berkeley

"The level of the bay will rise," said Zach Wasserman, Chairman of the Bay Conservation and Development Commission (BCDC). "If we do not start acting, do not start figuring out very specifically the ways that we can adapt to this and how we're going to pay for it," said Wasserman, "then life in the Bay Area will look and feel very different that it does today. And even people in the hills who will not be directly affected by rising waters will be indirectly affected by it because their transportation systems will be disrupted and the level of groundwater will increase, which could easily make it difficult to flush their toilets."

Len Materman agrees. Materman is CEO of One Shoreline in San Mateo, also known as the San Mateo County Flood and Sea Level Rise Resiliency District, an agency dedicated to combating rising waters across the Bay Area.

Materman says everyone living in this region, no matter their address, will be affected by rising sea levels. "It's [local water treatment plants and infrastructure] at risk. And it's at greater risk as time goes on with sea level rise," Materman said. "Even if you live in the hills, I mean, if you're in Hillsboro or Woodside or whatnot, you depend on [the plant]. If you flush your toilet you depend on a functioning water treatment plant."

For an example of how that can affect daily life look no further than the story of Sara and Peter Glover. During a heavy rainstorm, the Glovers suddenly found themselves knee deep in sewage. "The sewage was coming up out of this bathroom," said Sarah Glover, pointing to a shower on the ground floor of her home in San Francisco's West Portal neighborhood. They lost the first floor of their home to the sewage backup, even though they live miles away from the water. "We've lived here for twenty-five years and had no problems," said Peter Glover, "then in the span of the last, you know, five years, it happened twice. "Our garbage cans were in the garage. The water was so high they were floating," said Peter, "I couldn't find my boots because they were underwater. So, the only thing I could grab to remotely even cover my feet with some safety were crocs. And, you know, that's basically walking barefoot through the sewage."

Repairs to the home cost the Glovers $90,000. Even though insurance covered the damage, they say they never recovered from the shock - and the stench. "The odor was horrific," said Sarah. Dozens of other neighboring homes in West Portal flooded during that heavy rainstorm in December of 2019 because their sewer pipes aren't wide enough to accommodate rain runoff and sewage, which share the same path to the Bay. But as sea levels rise, experts say this same scenario could play out across the Bay Area.

Without accounting for storms, King Tides and other weather events, the State of California predicts seas will likely rise about half a foot by 2030. In what scientists say is an extreme scenario - sea level could increase by one foot by 2030. By the middle of this century, the low figure is 1.1 feet, with an extreme high of nearly 3 feet.

One reason for concern that experts point to is what happening to the waters in the Arctic. "The temperatures in the Arctic are warming up three times faster than they're warming up in the rest of the planet," said Dr. Mayra Oyola, an atmospheric scientist for NASA. In the past decade, NASA and the European Space Agency launched satellites to accurately measure sea levels. Their data shows a potential for seas to rise as much as eight feet by the end of the

century. “Obviously this is of concern if we’re thinking about people living near the coast,” said Dr. Oyola.

Of the 30 sewage treatment plants at risk in the Bay Area, The Investigative Unit identified four plants, serving 390,736 people, that are most at risk: Palo Alto, Paradise Cove in Tiburon, San Mateo and Benicia. Because of their location and height data modeling shows those treatment plants could flood within a decade if scientist’s worst predictions come true. If seas rise 20 inches, which some models say could happen by 2040, Silicon Valley Clean Water in Redwood City ad Alvarado Wastewater Treatment Plant in Union City are also at high risk.

“There needs to be some big picture thinking,” said Jim McGrath, Chair of the San Francisco Bay Regional Waterboard. “You’re going to have to think about, okay, are we going to have to reconstruct some of these facilities as force managers, which means you pump them rather than go by gravity, which is more expensive to operate, certainly very expensive and disruptive.”

Over the next six to nine months, the Waterboard will ask all the sewage treatment plants in the Bay Area to submit their plans to protect their facilities from flooding. The agency will review the answers they receive, prioritize the plants based on risk, and work with them on potential solutions.

After sewage caused $90,000 worth of damage to her house, the Glovers worry about both her and her neighbors’ future. “Until the city and the state and the country take climate change seriously,” Sarah said, “and I'm hopeful as we move forward that they are (taking it seriously), we’re going to continually be in this position - and it’s a shame, especially in a country with all these resources.”

LAVWMA Export Pump Station MCC Replacement – (LAVWMA-2021-2)

PRE-CONSTRUCTION MEETING – AGENDA

January 26, 2021 - Location: Zoom Conference

1. Introductions – Everyone introduced themselves, see attached attendee list.
    a. Owner's Team
        i. Agency, District – Chuck Weir is General Manager of LAVWMA. CD explained the arrangement between the facility's owner, LAVWMA, and facility operator, DSRSD. All operational coordination will be done with DSRSD and all contract administration done through LAVWMA.
        ii. Design Engineer – Diep Nguyen, DTN Engineers.
        iii. Construction Manager – Chris Davenport will start the project off but noted he will hand off to Andy Deal as the project moves from the office to the field.
    b. Contractor's Team
2. Safety/Site Security
    a. COVID Safety Protocols
        i. CD introduced JC who is the head of Operations which includes the safety team at DSRSD. Dave Peters is the site safety technician.
        ii. JC noted that DSRSD is following Alameda County COVID orders. The District has developed an exposure control plan that includes wearing face masks and practicing social distancing. DSRSD also staggers shifts and uses telecommunication whenever possible. New contractors are briefed of the COVID regulations when arriving on site and will be asked to leave the site if they don't comply. In addition, DSRSD has air filters, a signing in procedure, and a COVID questionnaire if an in-person meeting is required.
        iii. CD noted that keeping separation from the District workers was important. Direct contact with District staff should be avoided and utilize Psomas staff to coordinate.
    b. Contractor's Safety Program, Safety Officer, Site Competent Person
        i. LP noted that they have a site safety plan which includes COVID provisions and their plan is to use a field engineer to perform the necessary daily COVID checks.
    c. Access and Security – Gate Code
        i. CD noted that the site is fully enclosed and only accessible through an automatic gate. A code is needed to open the gate. The District will issue Royal two gate codes, one for their use and a second that they can provide to subcontractors and suppliers. The gate code will only open the gate during contract work hours, 7-4:30pm. The District will allow site access outside of those hours on a case by case basis. All requests should be sent to Psomas who will coordinate District approvals.
        ii. MA will provide the code and clarified that it will only be valid at the LAVWMA gate.
        iii. CD emphasized that even though the site is fenced in the contractor should not presume it is secure. Royal needs to implement their own measures to secure any items left on site.
3. Coordination with LAVWMA Facilities & Operations
    a. Avoid interference with normal operation of equipment and processes
        i. CD noted that this pump station is an essential facility. It is the only means the valley has for discharging treated effluent to the bay and therefore is very important to keep operational during the course of construction. The team needs to constantly keep thinking about operational coordination and make sure Pump Station staff has unobstructed access to the various areas, especially important since staff makes rounds at night.

ii. JC noted that they had another contractor on site doing underground pipe repair work and to anticipate the need for some coordination when mobilizing. He emphasized the need to maintain an open lane around the site for emergency access.
iii. CD noted that prior to mobilization, Psomas and Royal field staff will walk the site and tape off areas where the contractor's equipment could be located.

b. Major Constraints – Detailed on Drawing E-28
   i. *MCC-P1 work fully completed and handed over before MCC-P2 is turned over*
      1. *CD emphasized that getting one MCC done completely, which includes all testing and commissioning is critical before moving on to the next one. As discussed above, the pump station is a critical facility and any unexpected interruptions to pumping can lead to permit violations and regulatory fines that the entire team wants to avoid.*
   ii. dry weather April 1 to October 31

c. SOR Req'ts
   i. *LOTO Process for handing over each MCC*
      1. CD noted that duel LOTO procedures will be required on all existing equipment. Both the District and Royal will be required to put their locks on de-energized breakers. The District has primary responsibility for opening and closing all existing breakers. Royal has primary responsibility for opening and closing all new breakers and equipment. After an area/equipment is handed over to the contractor, they will be the primary responsible entity. Before executing an SOR, Psomas will lead a walk through the area so both the District and Royal can review the conditions and agree on a plan for safely shutting down the systems.
   ii. *Short duration SORs (1 day or less) only done on Tuesday-Thursday*
   iii. *Summer time of use coordination*
      1. *JC noted that PG&E is changing their peak hour schedule to between 4:00pm-9:00pm. CD noted that is important because LAVWMA generally avoids pumping during those hours. All water that enters the pump station during that time is stored in the ponds. LAVWMA incurs major monetary penalties if they do pump during that time so it is important to coordinate the shutdowns to avoid pumping during electrical peak hours.*

4. Temporary Construction Controls
   a. Contractor Trailer and Parking – Prior to mobilizing, Psomas will coordinate a field walk with Royal and DSRSD to layout mutually acceptable limits.
   b. Cleanliness
      i. CD emphasized the need to keep the work area clean. The area is windy and the District wants to avoid trash blowing into the ponds and damaging the pumps or littering the fields to the east.
      ii. CW noted that they have resident geese that will attack if their young are around.
   c. Security & Fencing – noted above.
   d. Working Hours - 7:00am – 4:30pm
      i. Weekend work with prior approval only (request submitted by noon Thursday). Sat. 9am – 4:30pm.
   e. Deliveries and Storage
      i. CD noted that all deliveries should be signed for and unloaded by the contractor and not DSRSD. If the two MCC's arrive at the same time the District will work with Royal to find room in the LAVWMA workshop or across the street at the WWTP.
      ii. SQ noted that they do not have a forklift at the site for deliveries so plan accordingly.

5. Subcontractors

a. Separate Gate Code Available – discussed above.

6. Construction Schedule
    a. Work Plan Review – Initial Approach
        i. CD noted that Royal Electric had sent in an Early work Plan and he was looking over it. The plan shows Royal mobilizing on site in late June.
        ii. LP confirmed she expects major submittals in March and receiving Tesco equipment in July, and Eaton equipment in August. Tesco and Eaton reps confirmed the dates provided no prolonged review process.
    b. Baseline Schedule
        i. Sequence and Constraints – *Construction sequence diagram on drawing E-28*
        ii. Mobilization Pre-Requirements
    c. Monthly Updates

7. Contract Time
    a. Final Completion – December 11, 2021 (360 days from NTP of 12/16/20)
    b. Liquidated Damages - $1,000/day

8. Project Meetings
    a. Progress Meetings – confirm Date, time and location
        i. CD noted that monthly meetings would be good for the next two months, then switch to once a week as Royal gets closer to mobilizing.
    b. Pre-Submittal Meetings
        i. CD emphasized the Designer and District are very willing to meet with the different major equipment suppliers before finalizing submittals in an attempt to resolve questions early and expeditiously. LP agreed to keep that in mind during the next month as the submittals are being prepared.

9. Project Document Control – Contract Administration
    a. Web Based Document Control – Procore Established
        i. CD noted that Procore has been set up and if there were problems to let him know.
    b. RFIs
    c. Submittals
        i. CD thanked OL and DN for turning around the cable submittal and resubmittal quickly.
    d. List of Submittals
        i. Contract required and should be provided soon.
    e. Early Critical

10. Warranties – CD wanted to highlight the cable warranty because it is the only part of the contract items that falls outside the normal warranty period of 1 year.
    a. Cable – 25 years 26 05 13 2.1-I & 40 66 33 1.07-D

11. Changes in the Work – CD emphasized the need for Royal to provide notice of any item they consider a change. This allows the team to review the issue and come up with the best solution that also mitigates the impacts to all parties.
    a. DCs – Design Clarifications
    b. RFPs, Field Orders, Field Directives
        i. Labor and Equipment Rates
            1. CD asked for a copy of Royal Electric's labor and equipment rates. Agreeing on this now eliminates additional work later when reviewing force account work.
    c. CCOs
    d. PCOs (contractor requested) – Notice Requirements – discussed above.

12. Payment
    a. Progress Payment Process
    b. Schedule of Values
        i. Breakdown - Bid Item; Area; Discipline - CD noted that he had received the schedule of values and had some questions/comments that he'll provide back to LP.
        ii. Payment for Shop Drawings 01 34 00 – 7.0
    c. DIR Registration – Certified Payrolls
        i. DIR # **354428** – This is the number Royal and their subs should reference for prevailing wage reporting.
13. Conformed Documents – DN noted that no conformed documents would be issued.
    a. Hard Copies
    b. Electronic pdf copy
        i. CD noted that an electric version would be on Procore. DN has provided some CAD dwgs to Tesco already and will send a copy to CD to upload to Procore. Any other record information provided to Royal will also be uploaded to Procore and available to the group.
14. Other
    a. Factory Testing Witnessing
        i. MT noted that the Eaton equipment is built in Ashville, NC and they can accommodate virtual factory testing. Their COVID restrictions currently prohibit outside persons visiting the plant.
    b. Site Training – Tuesday, Wednesday and Thursdays only
    c. SCADA Programming and Coordination
        i. CD clarified that Tesco is doing the SCADA programming. He recommended scheduling a coordination meeting with the District who can share their current files and formats with them. MA noted that they if Tesco could compile a list of what they need, the District could get it to them. DN noted that they would need the most up to date version of the system. MA replied that they the files are updated frequently so there will be changes that need to be incorporated when the new files are uploaded next summer.
        ii. *Add an agenda item on meetings to discuss changes to the files the district has made*
    d. SKM Files
        i. MA noted that Eaton had done the last Arc Flash study for the Pump Station and asked the Eaton reps to check with their other engineers to see if they can get copies of those files.
        ii. DN agreed to follow up with PG&E and request the latest parameters.
    e. Eaton Foreseer Software Upgrade & Configuration
        i. MA noted that Foreseer replaced Powernet and Eaton would have to configure new devices and tie in a new display.
        ii. DN wanted to remind Eaton that this work would be necessary.
    f. CAD Files of (E) Panels Transferred to Tesco
        i. DN noted that all CAD files and loop diagrams had been provided to Tesco, but these are not AS BUILTS and Tesco should still field verify.
    g. CD asked if any of the pumps fed from MCC-2 were out of service. SQ confirmed that all pumps are operational so no issue with maintaining required pumping capacity during an MCC shutdown.

LAVWMA Export Pump Station MCC Replacement – (LAVWMA-2021-2)

PRE-CONSTRUCTION MEETING

List of Attendees

Name	Company	Email Address	Abbreviation
Chuck Weir	LAVWMA	Chuckweir@sbcglobal.net	CW
Jeff Carson	DSRSD	Carson@dsrsd.com	JC
Levi Fuller	DSRSD	Fuller@dsrsd.com	LF
Maurice Atendido	DSRSD	Atendido@dsrsd.com	MA
Shawn Quinlan	DSRSD	Quinlan@dsrsd.com	SQ
Dave Peters	DSRSD	dpeters@dsrsd.com	DP
Diep Nguyen	DTN Engineers	Dnguyen@dtnengrs.com	DN
Liz Piccone	Royal Electric	Lizp@royalelect.com	LP
Oscar Lara	Royal Electric	Oscarl@royalelect.com	OL
Carmen K	Royal Electric	CarmenK@royalelect.com	CK
Dominic	Royal Electric	Dominic@royalelect.com	D
Rick W	Royal Electric	Rickw@royalelect.com	Rick W
Chris Meyling	Royal Electric	Chrism@royalelect.com	CM
Brad Simmons	Royal Electric	brads@royalelect.com	BS
Eric Slupianek	Tesco	Eslupianek@tescocontrols.com	ES
Mark Telford	Eaton	Marktelford@eaton.com	MT
Dave Ellsworth	Eaton	Davidaellsworh@eaton.com	DE
Andy Deal	Psomas	Andy.deal@psomas.com	AD
Chris Davenport	Psomas	Chris.davenport@psomas.com	CD
Rachel Weber	Psomas	Rachel.weber@psomas.com	RW

E-20 PG&E Maximum Demand Rate = $19.02

May 1 thru October 31 (Summer)				Demand	Usage
Off Peak AM	M-F	00:00:00	08:30:00	$ -	$ 0.08817
Partial Peak AM	M-F	08:30:00	12:00:00	$ 6.12	$ 0.11748
Peak	M-F	12:00:00	18:00:00	$ 22.91	$ 0.16512
Partial Peak PM	M-F	18:00:00	21:30:00	$ 6.12	$ 0.11748
Off Peak PM	M-F	21:30:00	23:59:59	$ -	$ 0.08817
Off Peak	Sat/Sun	all day		$ -	$ 0.08817
November 1 thru April 30 (Winter)				Demand	Usage
Off Peak AM	M-F	00:00:00	08:30:00	$ -	$ 0.09537
Partial Peak AM	M-F	08:30:00	12:00:00	$ 0.15	$ 0.11120
Partial Peak PM	M-F	12:00:00	18:00:00	$ 0.15	$ 0.11120
Partial Peak PM	M-F	18:00:00	21:30:00	$ 0.15	$ 0.11120
Off Peak PM	M-F	21:30:00	23:59:59	$ -	$ 0.09537
Off Peak	Sat/Sun	all day		$ -	$ 0.09537

B-20 PG&E Maximum Demand Rate = $19.55

June 1 thru September 30 (Summer)				Demand	Usage
Off Peak AM	Sun-Sat	00:00:00	09:00:00	$ -	$ 0.10497
Off Peak AM	Sun-Sat	09:00:00	14:00:00	$ -	$ 0.10497
Partial Peak AM	Sun-Sat	14:00:00	16:00:00	$ 5.12	$ 0.12476
Peak	Sun-Sat	16:00:00	21:00:00	$ 26.35	$ 0.15311
Partial Peak PM	Sun-Sat	21:00:00	23:00:00	$ 5.12	$ 0.12476
Off Peak PM	Sun-Sat	23:00:00	23:59:59	$ -	$ 0.10497
March 1 thru May 31 (Spring)				Demand	Usage
Off Peak AM	Sun-Sat	00:00:00	09:00:00	$ -	$ 0.10503
Super Off Peak	Sun-Sat	09:00:00	14:00:00	$ -	$ 0.06
Off Peak AM	Sun-Sat	14:00:00	16:00:00	$ -	$ 0.10503
Peak	Sun-Sat	16:00:00	21:00:00	$ 1.84	$ 0.13507
Off Peak PM	Sun-Sat	21:00:00	23:00:00	$ -	$ 0.10503
Off Peak PM	Sun-Sat	23:00:00	23:59:59	$ -	$ 0.10503
October 1 thru February 28 (Fall/Winter)				Demand	Usage
Off Peak AM	Sun-Sat	00:00:00	09:00:00	$ -	$ 0.10503
Off Peak AM	Sun-Sat	09:00:00	14:00:00	$ -	$ 0.10503
Off Peak AM	Sun-Sat	14:00:00	16:00:00	$ -	$ 0.10503
Peak	Sun-Sat	16:00:00	21:00:00	$ 1.84	$ 0.13507
Off Peak PM	Sun-Sat	21:00:00	23:00:00	$ -	$ 0.10503
Off Peak PM	Sun-Sat	23:00:00	23:59:59	$ -	$ 0.10503

How business rate plans have changed

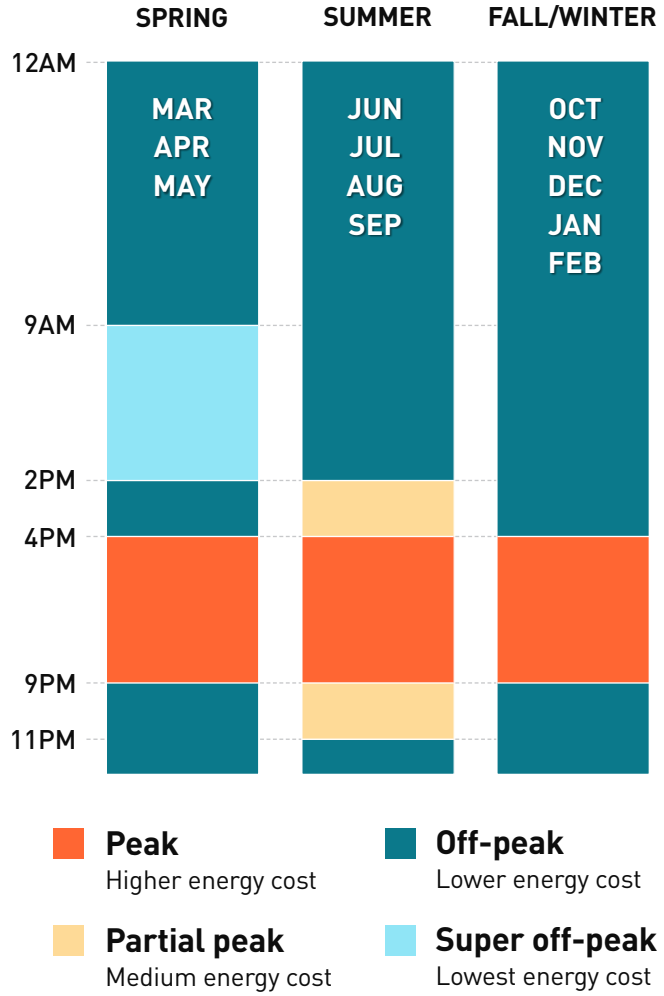
The steady growth of renewable energy has changed peak demand times, when rates are highest.

- New business peak hours: **4-9 p.m. every day**, starting in March 2021
- Original business peak hours: **Noon-6 p.m. in summer**
- Now the summer rates last for just four months, instead of six
- If you look at the new rate plans and see one that's a good fit for your business, you can enroll early, in November 2019

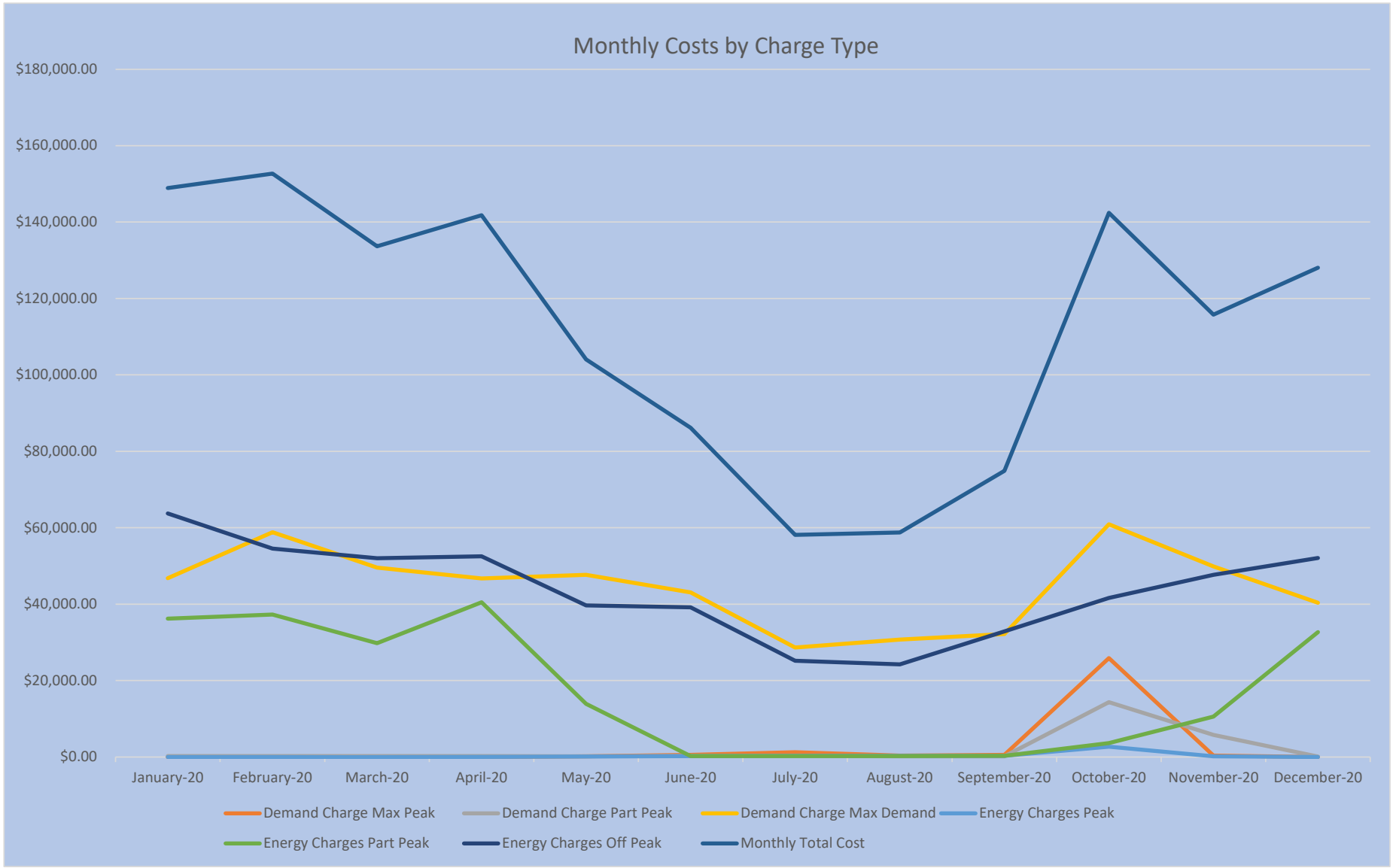
How the new rate periods compare to the original rate periods

- New business rate plans have a new super off-peak period, when prices will be at their lowest, during spring months
  - **9 a.m.-2 p.m. every day**, from March through May
- There are also partial-peak periods during summer months only
  - **2-4 p.m.** and **9-11 p.m. every day**, June through September

See your options



Month	Customer Charge	Demand Charge Max Peak	Demand Charge Part Peak	Demand Charge Max Demand	Energy Charges Peak	Energy Charges Part Peak	Energy Charges Off Peak	Power Factor Adjustment	Energy Commission Tax	PDP Program Credits	Monthly Total Cost
January-20	$2,123.70	$0.00	$216.14	$ 46,770.38	$0.00	$36,195.60	$63,734.10	($403.18)	$296.04	$0.00	$148,932.77
February-20	$1,990.97	$0.00	$218.78	$ 58,817.90	$0.00	$37,240.22	$54,537.02	($373.22)	$268.17	$0.00	$152,699.84
March-20	$2,123.70	$0.00	$238.68	$ 49,592.98	$0.00	$29,783.49	$52,001.48	($347.36)	$238.91	$0.00	$133,631.88
April-20	$1,990.97	$0.00	$225.98	$ 46,705.21	$0.00	$40,517.19	$52,517.36	($381.97)	$269.88	$0.00	$141,844.61
May-20	$2,539.02	$180.48	$136.39	$ 47,676.34	$109.53	$13,908.36	$39,643.69	($251.00)	$167.04	($58.13)	$104,051.72
June-20	$2,885.59	$550.94	$260.56	$ 43,096.56	$246.44	$225.92	$39,144.59	($211.98)	$131.78	($127.23)	$86,203.17
July-20	$2,615.09	$1,229.02	$299.88	$ 28,627.20	$270.40	$238.24	$25,162.70	($127.64)	$85.15	($241.26)	$58,158.78
August-20	$2,705.23	$402.61	$136.42	$ 30,693.30	$266.98	$237.05	$24,231.64	($104.60)	$82.03	$135.46	$58,786.10
September-20	$2,885.61	$550.94	$152.88	$ 32,163.00	$291.10	$265.51	$32,911.41	($157.58)	$111.13	$5,675.04	$74,849.05
October-20	$2,726.88	$25,856.82	$14,373.95	$ 60,884.35	$2,682.86	$3,634.70	$41,646.49	($233.98)	$153.23	($9,294.86)	$142,430.43
November-20	$2,755.19	$332.28	$5,759.08	$ 49,881.69	$179.28	$10,602.15	$47,658.81	($283.87)	$183.04	($1,296.72)	$115,770.93
December-20	$2,847.03	$0.00	$112.66	$ 40,414.51	$0.00	$32,665.11	$52,108.76	($357.38)	$247.59	$0.00	$128,038.28


Monthly Costs by Charge Type
$180,000.00
$160,000.00
$140,000.00
$120,000.00
$100,000.00
$80,000.00
$60,000.00
$40,000.00
$20,000.00
$0.00
January-20
February-20
March-20
April-20
May-20
June-20
July-20
August-20
September-20
October-20
November-20
December-20
Demand Charge Max Peak
Demand Charge Part Peak
Demand Charge Max Demand
Energy Charges Peak
Energy Charges Part Peak
Energy Charges Off Peak
Monthly Total Cost

ITEM NO. 11 STATUS REPORT ON NEGOTIATIONS WITH EAST BAY DISCHARGERS AUTHORITY FOR A NEW MASTER AGREEMENT AND CONSIDERATION OF APPROVAL OF A TERM SHEET AS THE BASIS OF A NEW MASTER AGREEMENT

Action Requested
That the Board approve the February 2021 Term Sheet with East Bay Dischargers Authority to form the basis of a new Master Agreement.

Summary
The Master Agreement with East Bay Dischargers Authority was set to expire on January 1, 2020. It has been extended three times. First through June 30, 2020, secondly through December 31, 2020 and most recently through June 30, 2021. The most recent extension was approved by the Board at the November 18, 2020 meeting. Also at the last Board meeting, Chair Woerner appointed an Ad Hoc Committee including himself and Vice Chair Johnson to work with staff and a comparable committee from EBDA to finalize the terms and conditions of a term sheet to form the basis of a new agreement.

Following the November Board meeting negotiations continued at the staff and attorney level. The Ad Hoc Committee met with the General Manager, General Counsel, and DSRSD Assistant General Manager via Zoom on December 4, 2020 to discuss the key remaining issues. Following that meeting staff met with EBDA staff and agreed to most of the remaining issues. Staff met with the Ad Hoc Committee a second time on December 4 to update them on the progress being made. At that point it was up to EBDA to submit a revised term sheet for consideration. The EBDA General Manager indicated she would discuss a revised term sheet with the EBDA Managers Advisory Committee (MAC) and then have their Commission consider it at the December 17, 2020 Commission meeting.

Both members of the Ad Hoc Committee attended the EBDA Commission meeting and spoke of the history between the two agencies and the desire to reach consensus for a long term agreement that would benefit both parties. EBDA submitted a revised Term Sheet to LAVWMA on December 17, 2020.

The General Manager, General Counsel, and DSRSD Assistant General Manager reviewed the revised Term Sheet and made suggested edits which were approved by the member agency managers and the Ad Hoc Committee. The edited Term Sheet was submitted to EBDA on January 5, 2021.

EBDA accepted all of LAVWMA's suggested edits and made a few minor additional edits and resubmitted the revised Term Sheet on January 14, 2021. The revised Term Sheet was acceptable

to all parties. One additional error was found and EBDA was asked to delete that phrase and they agreed. The result is the attached final version of the Term Sheet dated February 2021. EBDA has indicated it will seek approval of the Term Sheet at its February Commission meeting.

Approval of the Term Sheet avoids the condition in the Master Agreement extension that would have imposed an additional financial cost on LAVWMA if the Term Sheet had not been agreed to by March 31, 2021. Approval would also authorize the EBDA and LAVWMA attorneys to begin drafting the final agreement with the goad of final approval by the May 19, 2021 LAVWMA Board meeting.

Now that the process of approving a new agreement with EBDA is near certain, it is time to review the financial impacts on EBDA costs in the current and future budgets. The new agreement will be retroactive to June 1, 2020, which is the start of the FY2020/21 Budget. The costs for EBDA need to be increased to account for the fixed cost percentage increase from 18.6% to 26.1%. There will also be an increase for dechlorination costs through the new agreement. The current budget has those costs at 3.12% and 10% is used in the proposed modification. Budget Modification No. 2 in **Agenda Item No. 12** includes that increased cost for EBDA.

Recommendation
It is recommended that the Board approve the February 2021 EBDA-LAVWMA Amended Master Agreement Term Sheet.

Attachment
EBDA-LAVWMA Amended Master Agreement Term Sheet Final – February 2021

EBDA-LAVWMA Amended Master Agreement Term Sheet

FINAL – February 2021

Capacity

- Consistent with the Master Agreement (Section 4.1), LAVWMA shall have a Firm Capacity of 19.72 MGD in the EBDA System, and an Interruptible Capacity of up to 21.48 MGD for a total of 41.2 MGD at peak flow.

LAVWMA's Financial Participation in the EBDA System

- **Operations / Maintenance and Capital Costs** - LAVWMA shall be responsible for its share of all applicable costs attributable to LAVWMA's use of and capacity rights in the EBDA System, which include OLEPS, MDF, Operations Center and force main from OLEPS to Bay Outfall, and exclude Union Effluent Pump Station (UEPS), Hayward Effluent Pump station (HEPS) and their associated force main sections, as well as facilities owned by the City of San Leandro. (See Master Agreement 6.1 and 6.2).
- **Capital Buy-In** – The Agreement shall document that LAVWMA has fulfilled its obligation to pay EBDA capital buy-in charges of approximately $6M and $10M to cover LAVWMA's fair and equitable share of the project development and capital costs to expand the EBDA System to accommodate LAVWMA's flow for the life of the EBDA system. [No additional buy in obligations, but LAVWMA will pay for ongoing capital costs as stated above.]
- **Fixed Cost** – LAVWMA fixed cost allocation shall be 26.1%.
- **Renewal and Replacement Fund (RRF)** – RRF allocation = Fixed cost allocation
- **Variable Cost –** LAVWMA variable cost allocation to be based on proportion of total annual flow, consistent with Member Agencies. Cost allocation for chlorination and/or dechlorination may be revised based on the outcomes of the Disinfection Master Plan if agreed to by both Parties.

Liability

Allocation of costs associated with a failure of the Transport System and Outfall as per EBDA JPA:

- First $1.25M shared based on fixed cost allocation (excluding SL) (and consistent with parameters above).
- Above that, LAVWMA pays a share of OLEPS and MDF segment costs based on share of fixed cost allocation in that segment, as well as share of outfall costs based on fixed cost allocation.

Term

- Through June 30, 2040, with obligation to engage in good faith negotiations to determine if it is appropriate to amend the agreement upon certain events such as: (1) when EBDA Member Agencies negotiate to revise the JPA (see EBDA JPA Section 20(d)), (2) the composition of EBDA's membership changes, and/or (3) LAVWMA's flow quantity or composition significantly changes

(to be defined). Other amendment or termination by mutual agreement.

- Provide LAVWMA with notice and an opportunity to consider becoming a Member Agency of EBDA whenever an EBDA member composition changes and upon end of EBDA JPA term. Acceptance as a member would terminate this Agreement.

Operation of Facilities

- The provisions in Section 5 of the current Master Agreement regarding LAVWMA's O&M obligations are acceptable. LAVWMA recognizes that EBDA may want to update some of this language to parallel the terms of its new JPA.
- LAVWMA to maintain water quality and conduct sampling as provided for in current Master Agreement 5.8, 5.9 and 5.10.
- LAVWMA to maintain a detectable level of chlorine at the San Leandro Sample Station. LAVWMA will actively participate in the Disinfection Master Plan conducted by EBDA. The parties agree that the need to maintain a chlorine residual at the San Leandro Sample Station as determined by the Disinfection Master Plan, may result in a new disinfection strategy and associated cost-sharing.
- LAVWMA to coordinate pumping with EBDA O&M Manager to ensure that representative samples can be collected for EBDA's discharge permit.

Brine Management

- Brine generated from wastewater by the City of Pleasanton, the City of Livermore, or Dublin San Ramon Services District (DSRSD) (i.e. the LAVWMA member agencies) does not require approval by the Commission and does not require any payment to EBDA. Any discharge of Agency-generated wastewater-derived brine to the system downstream of secondary treatment must be consistent with conditions 1 and 2 of EBDA's Brine Policy dated July 16, 2020. (Same as member agencies under the EBDA JPA Section 23(b)(2)). Such conditions will be expressly stated in the Amended Master Agreement.
- LAVWMA may discharge brine or any other waste treated by a LAVWMA member agency through its full treatment system into EBDA's system so long as it is properly included in effluent samples and all permit conditions are met. (Same as member agencies under the EBDA JPA Section 23(b)(3)).
- For brine that is generated by an entity other than a LAVWMA member agency, a formal agreement must be unanimously approved by the EBDA Commission. The agreement will generally include the following:
    - Provision for EBDA to unilaterally discontinue accepting brine into the Authority's system when continued acceptance of brine is not in the best interest of the Authority. Specific conditions around such discontinuation will be outlined in the agreement.
    - Indemnification of the Authority against liability resulting from such disposal.
- A separate agreement between DSRSD and EBDA will be adopted concurrently with the EBDA-LAVWMA Master Agreement, for the same Term, to govern the Zone 7 brine discharge. The

agreement will include the following terms:

- DSRSD will pay EBDA a review fee of $50,000 upon execution of the agreement, in recognition of EBDA's costs to review and approve the discharge.
- For each year that Zone 7 is permitted to discharge to DSRSD's system and into the LAVWMA system, DSRSD will pay EBDA an annual fee in the amounts specified below:
    - 20,000 per year for FY21 – FY30
    - $25,000 per year for FY31 – FY40.
- EBDA reserves the right to review and approve or reject any significant changes to quantity or quality of Zone 7 brine discharged. In that process, fees may be adjusted. If flow decreases significantly, fees may be adjusted downward.
- EBDA reserves the right to discontinue or limit brine discharges if EBDA determines that acceptance of Zone 7 brine is limiting available capacity (hydraulic or constituent-based) required by any EBDA Member Agency. DSRSD agrees to provide water quality data for the Zone 7 brine as requested by EBDA on contaminants of emerging concern (e.g. PFAS compounds). EBDA agrees to limit requests to no more than once per year.

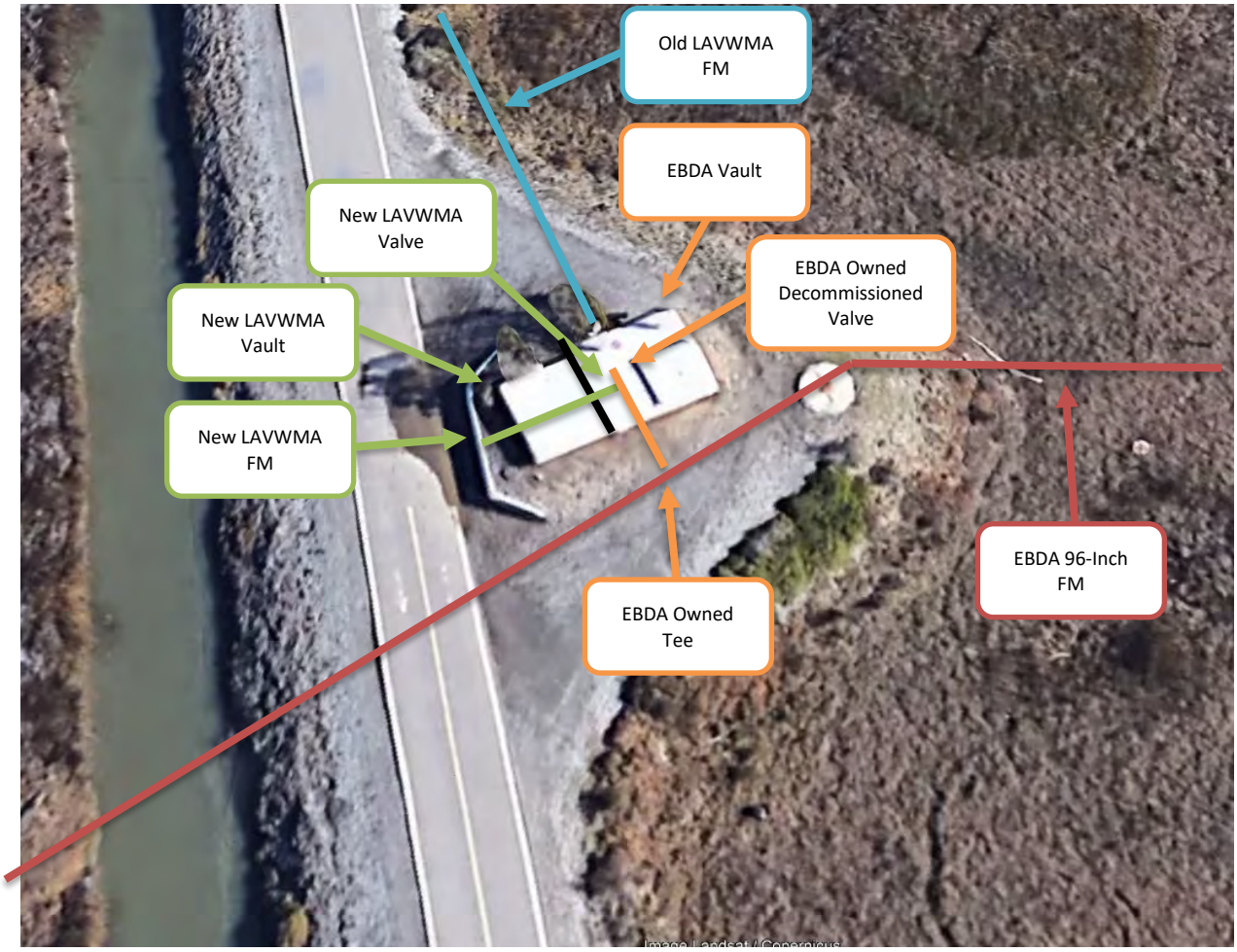
Dissolution of a Party

- Keep as in current Master Agreement Section 16:
    - If EBDA is modified or terminated pursuant to its JPA, LAVWMA's right to use EBDA system shall continue and any assignee(s) or transferee(s) of ownership to EBDA facilities shall be subject to the new Master Agreement.
    - If LAVWMA is modified or terminated, any assignee or transferee, or the LAVWMA Member Agencies in the case there is no transferee, shall be responsible for LAVWMA's obligations for the remainder of the term. This includes continued payment of Fixed Costs, RRF contributions, and liability.

Infrastructure

Agreement shall clarify ownership of infrastructure at the tie-in as per the following photos:


New LAVWMA Vault
EBDA Vault


Old LAVWMA FM
EBDA Vault
New LAVWMA Valve
EBDA Owned Decommissioned Valve
New LAVWMA Vault
New LAVWMA FM
EBDA 96-Inch FM
EBDA Owned Tee

-- END OF TERM SHEET --

ITEM NO. 12 MODIFICATION NO. 2 TO THE OPERATING AND CAPITAL BUDGET FOR FISCAL YEAR 2020/21

Action Requested
Approve Modification No. 2 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 cost for the San Leandro Sample Station Design Improvements Project has increased from $175,000 to $670,000. Although construction on this project will likely not begin until the FY2021/22 budget, the design portion should begin in April or May 2021, making the budget modification in this fiscal year appropriate.

As described in **Agenda Item No. 11**, increases in EBDA costs are predicated on the new Master Agreement being approved before June 30, 2021 and being retroactive to July 1, 2020. The increases include fixed costs changing from 18.6% to 26.1% and dechlorination costs increasing from 3.12% to an estimated 10%. Variable costs for EBDA will be increased by $16,000 and fixed costs will be increased by $122,000 for a total of $138,000. EBDA was looking for an increase of $150,000 per year such that the increase is close to their estimate.

The attached Modification No. 2 to the Operating and Capital Budget for Fiscal Year 2020/21 includes these modifications. There are no other recommended modifications at this time.

Recommendation
It is recommended that the Board approve Modification No. 2 to the Operating and Capital Budget for Fiscal Year 2020/21 for the SLSS Replacement Project at a revised cost of $670,000 and increases in costs for EBDA of $138,000.

Attachment
Modification No. 2 to the Operating and Capital Budget for Fiscal Year 2020/21.

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

OPERATING AND CAPITAL BUDGET

MODIFICATION NO. 2

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
OPERATING AND CAPITAL BUDGETS
FISCAL YEAR 2020/21
MODIFICATION NO. 2

EXECUTIVE SUMMARY

OPERATING BUDGET

The proposed operating budget of $3,483,400 is an 12.88% increase from the FY2019/20 budget. The total revenue requirement of $11,889,500 is a 3.46% 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 $802,000 is 37.03% above last year. In addition to the additional $138,000 for the new Master Agreement, 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 current agreement from the original 10.43% to the current level of 18.60%. With the anticipated new Master Agreement the fixed cost will increase to 26.1%. 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 variable costs through a combination of reducing flows through water recycling and flow management during wet weather. The EBDA Master Agreement has been extended through June 30, 2021. EBDA and LAVWMA have agreed to a term sheet for a new agreement. EBDA costs for FY20/21 are now based on the term sheet.

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.

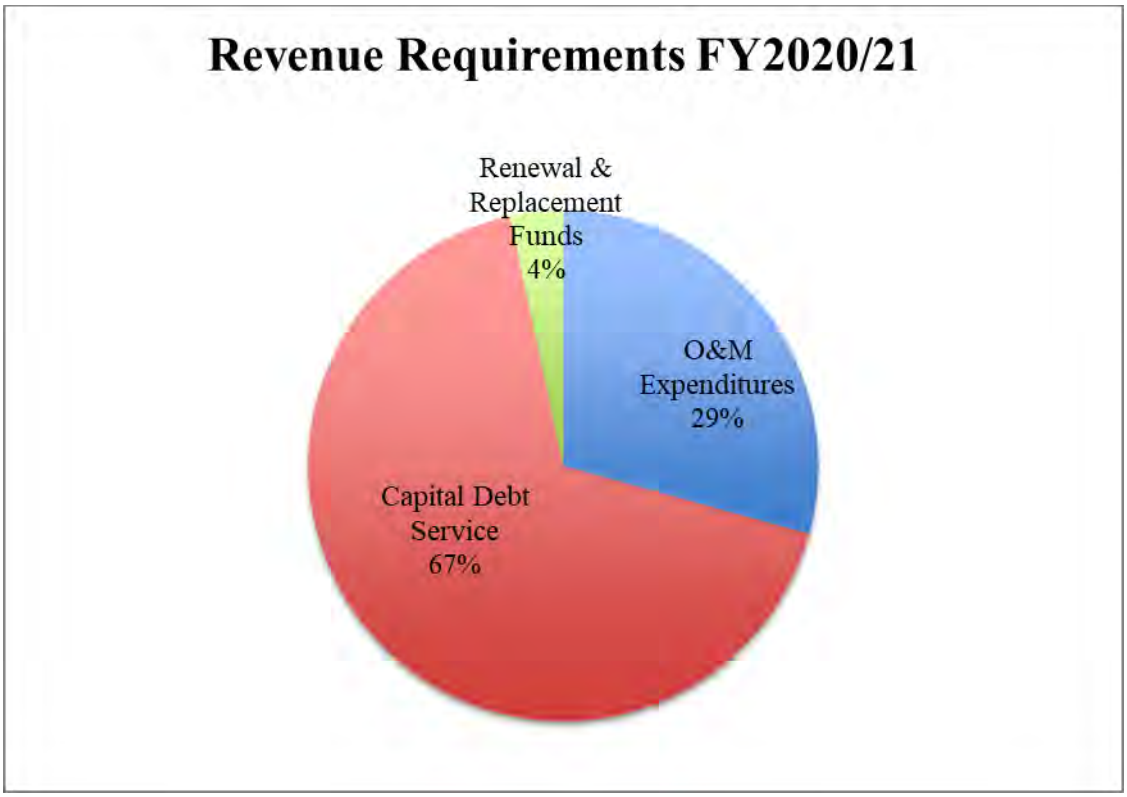
DSRSD's costs reflect a 2.75% cost of living adjustment. Other Fixed costs have been adjusted based on actual expenditures and anticipated needs for next year. Additional information is included in the remainder of the budget report.

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 $4,446,000 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 (SLSS), 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 and SLSS Projects, 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 $11,889,500 in total revenue requirements for FY2020/21.



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.

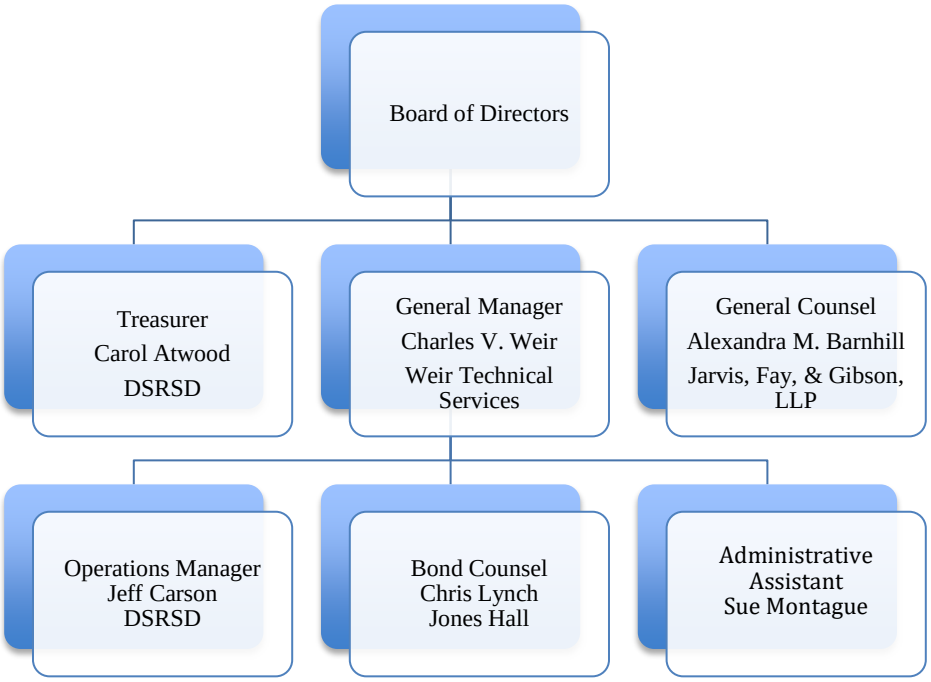
- **Cost Effectiveness.** Continue to perform routine maintenance on existing facilities in a manner that promotes cost savings over the projected life of the facilities.

- **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.

1.2 ORGANIZATION

The LAVWMA team proposed for FY2020/21 is shown in the following chart.



2.0 OPERATING BUDGET

2.1 Description of Services Provided

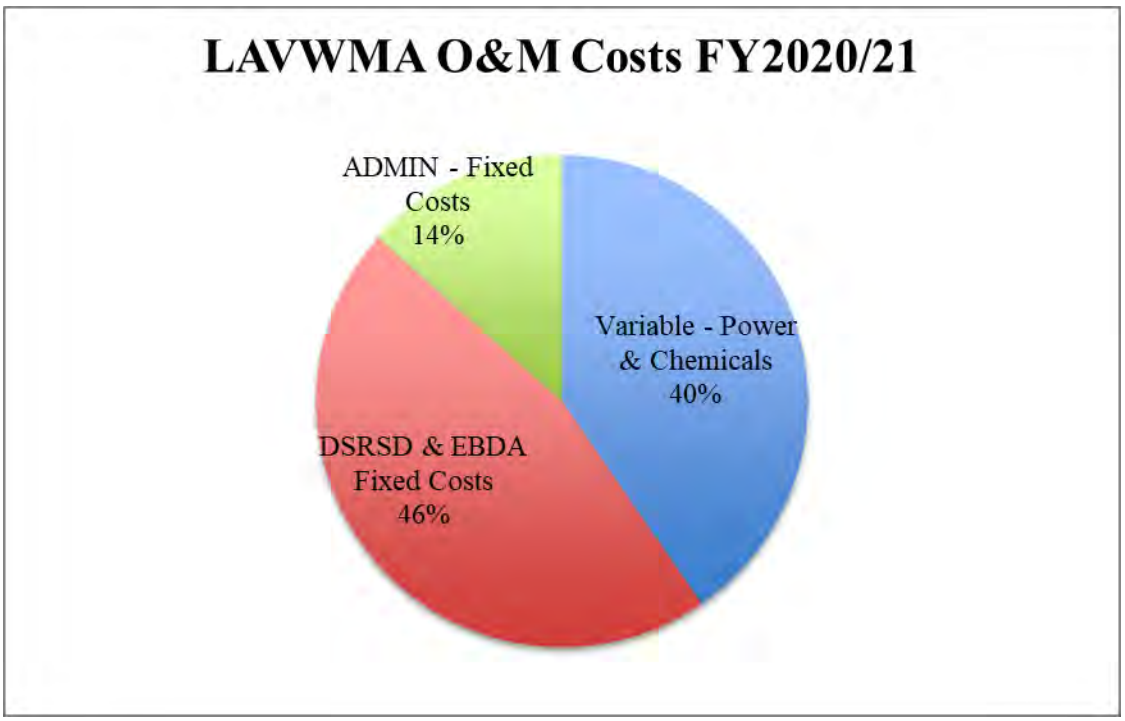
The Operations and Maintenance (O&M) budget includes all costs required to operate and maintain existing LAVWMA facilities. LAVWMA's existing facilities include the sole-use and dual-use interceptors, junction structure, Export and Livermore pumping stations, storage basins, export pipeline including 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.

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	157,000	8.28%
	Subtotal - O&M Variable Costs	1,345,000	1,386,721	1,407,000	4.61%
	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	645,000	27.72%
	Subtotal - O&M Fixed Costs	1,451,000	1,558,699	1,608,000	10.82%
	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	2,076,400	19.26%
	TOTAL O&M COSTS	$ 3,086,000	$ 3,271,647	$ 3,483,400	12.88%
		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	$11,889,500	3.46%

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 $1,407,000 and make up approximately 44% of LAVWMA's total operating budget. Pumping and chemical costs for FY2020/21 are projected to be 4.61% more than last year. PG&E costs are currently holding steady, but are subject to change on March 1, 2021 when a new time of use rate structure goes into effect. LAVWMA is studying how to implement the changes to ensure the lowest possible costs. 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, 10.00%**
General Administration	$21,500	$3,847	-
Outfall & Forcemains	$150,000	$9,394 (35%)	-
Marina Dechlor Facility	$222,000	$39,723	-
Dechlorination Costs	$235,000	-	$23,500
Oro Loma Pump Station	$420,000	$75,152	
Bay & Effluent Monitoring	$30,000	$5,638	
Total	**$843,500**	**$133,485**	**$23,500**

The total estimate for EBDA Variable O&M Costs is $156,985, which has been rounded up to $157,000 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 expected to be responsible for 26.1% of the fixed costs for "shared" EBDA facilities in the new Master Agreement retroactive to July 1, 2020. This year's fixed cost budget is $645,000, which is 27.72% more than last year. Total EBDA costs for variable and fixed costs for FY2020/21 are $802,000 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	26.1%	$321,881
Outfall & Forcemains	$31,336	6.51%	$2,865
Marina Dechlor Facility	$49,004	26.1%	$12,790
Oro Loma Pump Station	$43,920	26.1%	$11,463
Bay & Effluent Monitoring	464,550	26.1%	$121,248
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**		**$715,984**

Historically, EBDA has averaged approximately 90% of budget for the fixed costs listed above. Accordingly, $645,000 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

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: 1. 24-inch flow control valve 2. 20-inch flow control valve 3. Two 30-inch flow meters 4. Two chlorine residual analyzers 5. Miscellaneous piping and fittings to accommodate different pipe sizes 6. Improvements to the Programmable Logic Controller (PLC), Human Machine Interface (HMI), Supervisory Control and Data Acquisition System (SCADA), networking and programming The SLSS station has to be designed to measure chlorine residual and monitor pH	$670,000

FY2020/21 Capital Program Expenditures		
Project	**Description**	**Cost**
	continuously. These parameters have to be measured both when effluent is going to EBDA and when effluent is dechlorinated and 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. The project will now also address probable sea level rise at the discharge point and provide a design to ensure discharge will always be 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	$2,500,000

FY2020/21 Capital Program Expenditures		
Project	**Description**	**Cost**
	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 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.	

FY2020/21 Capital Program Expenditures		
Project	**Description**	**Cost**
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
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	$300,000

FY2020/21 Capital Program Expenditures		
Project	**Description**	**Cost**
	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 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	$40,000

FY2020/21 Capital Program Expenditures		
Project	**Description**	**Cost**
	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 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		**$4,446,000**

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 3.46% more than FY2019/20 in Total Revenue Requirement. Total O&M costs are 12.88% 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 FY2020/21.

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	(4,446,000)	(0)	(0)	(4,446,000)
End of Year	11,707,879	427,906	1,601,940	13,737,725

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 FY2019/20 and recommendations for FY2020/21 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 and SLSS Projects 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	(4,446,000)	(3,596,000)
Total	**3,600,000**	**2,100,439**	**(7,540,209)**	**(1,839,770)**

3.2 Discussion of Capital Expenditures Proposed for FY2020/21

The following table summarizes $4,446,000 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	$670,000
*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	**$4,446,000**

4.0 FY2020/21 Member Agency Cost Sharing & Schedule

Member Agency Costs FY2020/21			
	Total	**Livermore**	**DSRSD/Pleasanton**
Variable O&M	$ 1,407,000	$ 492,450	$ 914,550
Fixed O&M	2,051,400	617,472	1,433,928
Sole Use Fixed O&M	25,000	25,000	
Total O&M	3,483,399	1,134,922	2,348,478
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	**$ 11,889,500**	**$ 3,483,353**	**$ 8,406,147**
Semi Annual O&M Advance	1,741,700	567,461	1,174,239
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	$ 8,356,062	2,412,725	5,943,337
Total January 1 Advance	$ 3,533,437	$ 1,070,628	$ 2,462,809
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%

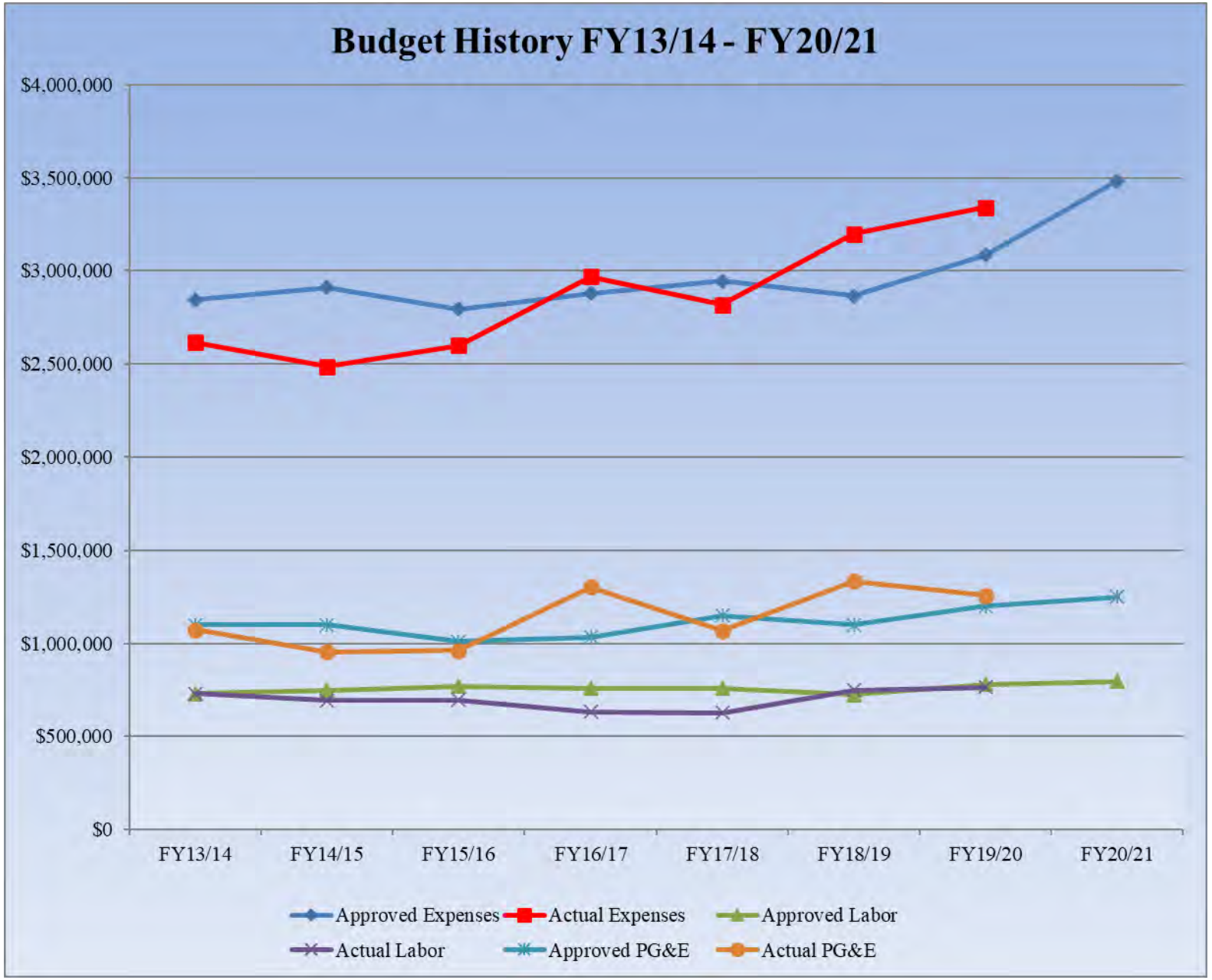
5.0 Budget Trends FY2013/14 – FY2020/21

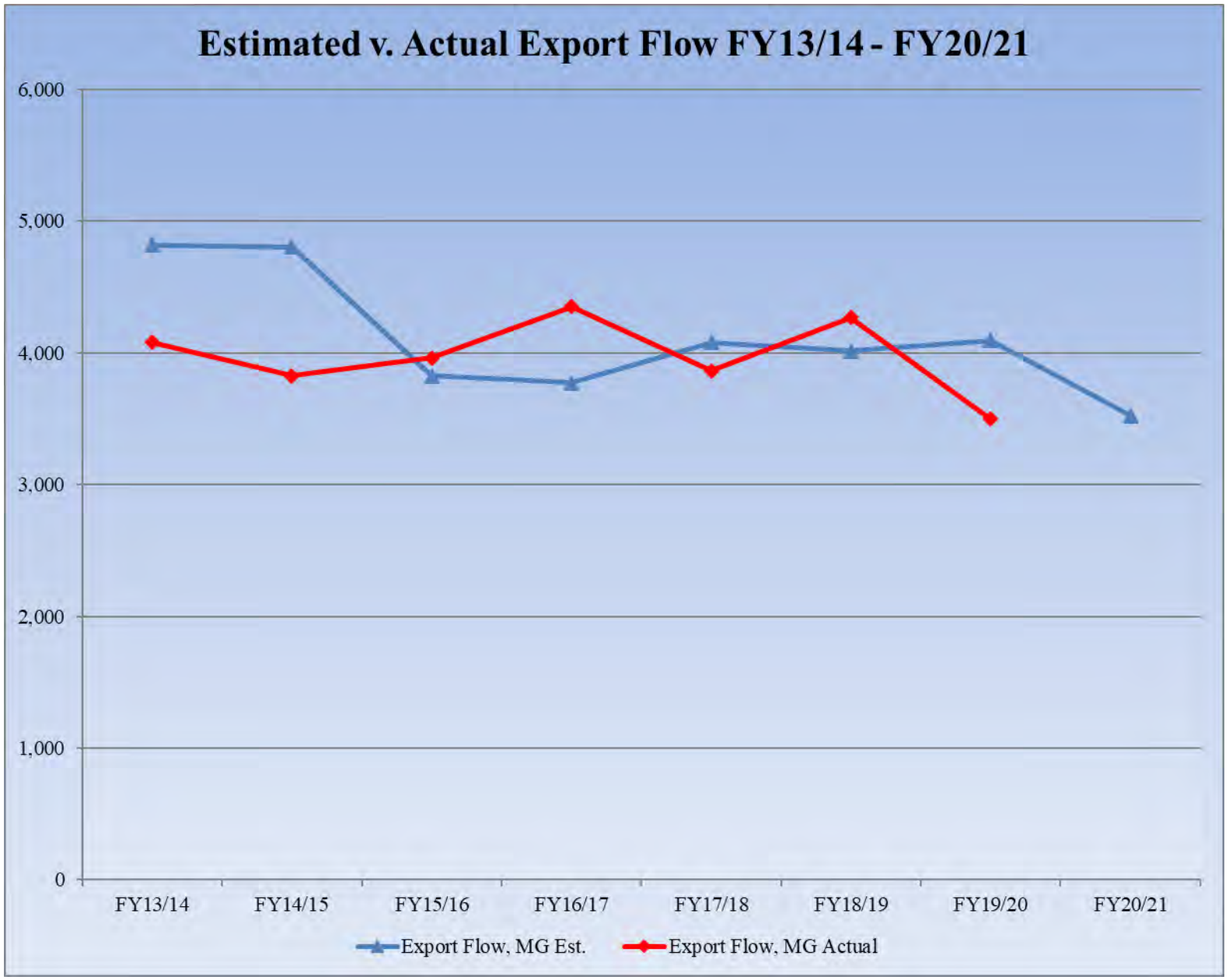
The following charts show expense trends from FY13/14 through FY20/21. The charts show the following:

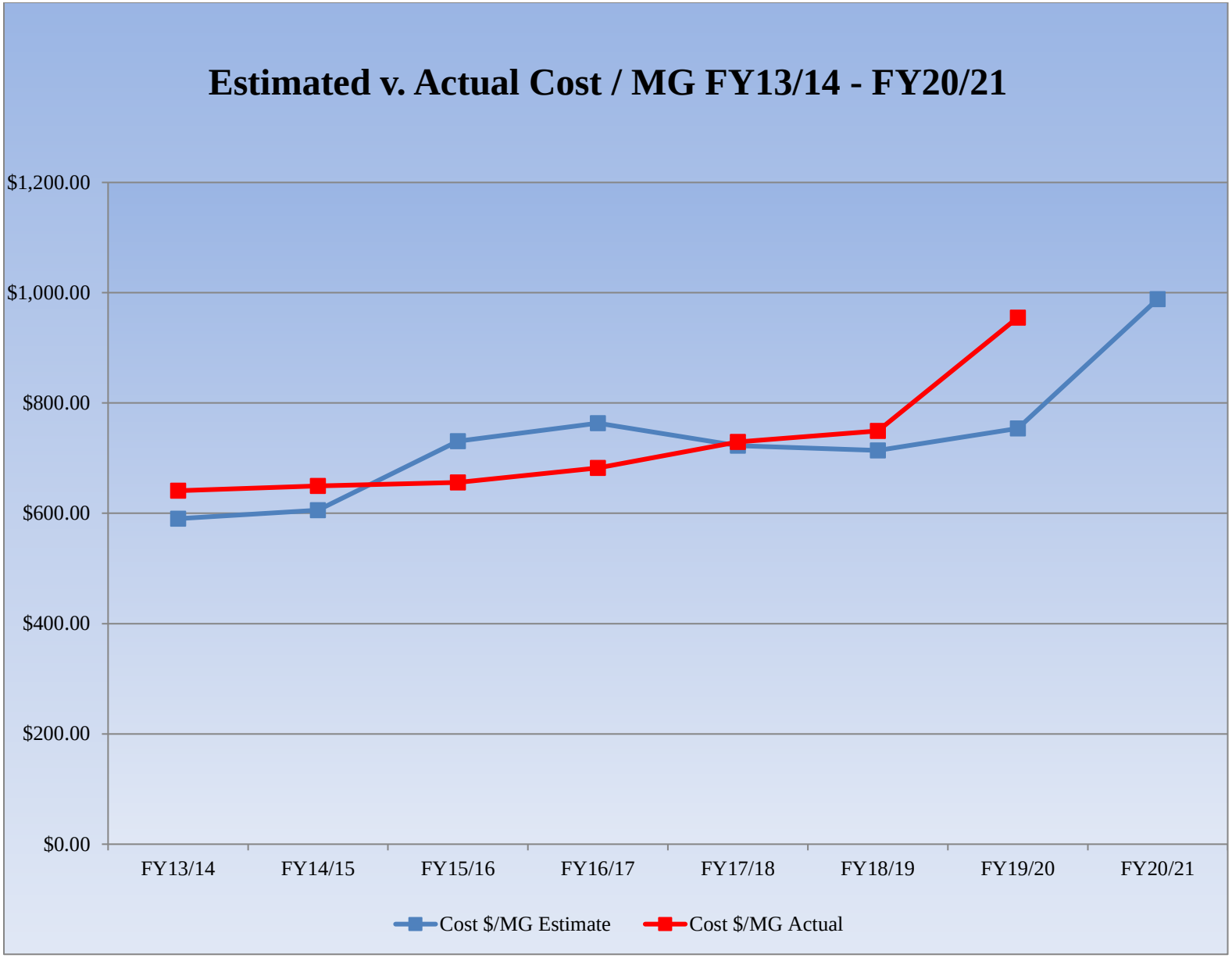
- Approved versus actual expenses for total expenses, labor costs, and PG&E power
- Estimated versus actual export flow
- Estimated versus actual cost per million gallons

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.


Budget History FY13/14 - FY20/21
$4,000,000
$3,500,000
$3,000,000
$2,500,000
$2,000,000
$1,500,000
$1,000,000
$500,000
$0
FY13/14
FY14/15
FY15/16
FY16/17
FY17/18
FY18/19
FY19/20
FY20/21
Approved Expenses
Actual Expenses
Approved Labor
Actual Labor
Approved PG&E
Actual PG&E


Estimated v. Actual Export Flow FY13/14 - FY20/21
6,000
5,000
4,000
3,000
2,000
1,000
0
FY13/14
FY14/15
FY15/16
FY16/17
FY17/18
FY18/19
FY19/20
FY20/21
Export Flow, MG Est.
Export Flow, MG Actual


Estimated v. Actual Cost / MG FY13/14 - FY20/21
$1,200.00
$1,000.00
$800.00
$600.00
$400.00
$200.00
$0.00
FY13/14
FY14/15
FY15/16
FY16/17
FY17/18
FY18/19
FY19/20
FY20/21
Cost $/MG Estimate
Cost $/MG Actual

ITEM NO. 13 UPDATE AND RESPONSE TO VARIOUS LEGAL AND LEGISLATIVE ISSUES

Action Requested
None at this time.

Summary
California Association of Sanitation Agencies (CASA) last updated its bill tracking list on March 13, 2020. That list was included in the May 20, 2020 Agenda packet. The bill introduction deadline is Friday, February 19, 2021 and CASA expects to see a lot more bills introduced between now and then. CASA will continue to provide updates with news of any relevant legislation. If you have any questions or need additional information, please contact Jessica Gauger or Alma Musvosvi. CASA's annual conference was held in late January 2021. **Attachment No. 13.a** is the agenda for CASA's State Legislative Committee. Several items are identified in the agenda with embedded links for additional information. A few items are highlighted below.

Item B.1, Non-flushable product labeling legislation reintroduction. This legislation will require manufacturers of wipes products to clearly identify those premoistened nonwoven wipes products are composed of materials that are not safe to dispose of through toilets. The manufactures industry in California has agreed to the requirements, so the legislation should pass easily. It was tabled last year.

Item B.2, SB 277 Hertzberg reintroduction of stormwater authority bill. On February 1, 2021, Senator Hertzberg introduced CASA sponsored legislation Senate Bill (SB) 273. Similar to SB 1052, which CASA sponsored last session, this bill will authorize wastewater agencies to voluntarily enter into agreements with stormwater management facilities in order to manage stormwater. CASA looks forward to partnering with Senator Hertzberg to work on this important piece of legislation which will improve water quality throughout the State.

Item B.6, Mitigation Fee Act Reform. This bill is related to mitigation fees charged by local agencies for providing services. It would increase the timing for notice requirements and response and could make it more difficult for local agencies to charge mitigation fees.

Item C.1, SB 230 State Water Resources Control Board CEC Program. The State Water Board can require local water agencies to monitor for constituents of emerging concern (CESs). This bill would provide funding for CEC analysis for agencies that face financial hardships.

Item C.2, SB 45 Wildfire Prevention, Safe Drinking Water, Drought Preparation, and Flood Protection Bond Act of 2022. This is a proposed $5.5 Billion bond measure for the 2022 ballot that would provide funding for the items listed.

Item C.3, SB 83, California Infrastructure and Economic Development Bank: Sea Level Rise Revolving Load Program. This bill would create the Sea Level Rise Revolving Loan Program through the Coastal Commission. Bonds would be sold to create funding for the loan program. Presumably, it would be similar to the State Water Board revolving loan programs. There is no mention of the value of the bonds that would be issued.

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/. As for federal legislation, the Special Districts Provide Essential Services Act (H.R. 535/S. 91) has been introduced, which would make special districts eligible for direct federal financial assistance in future COVID-19 relief packages appropriated by Congress by expanding the definition of local government to include special districts.

California Special Districts Association (CSDA) also tracks hundreds of bills on behalf of special districts. Their focus goes beyond just issues related to water and wastewater agencies. CSDA has prepared a 48 page summary of legislation they tracked in 2020. It is not included in this packet, but is available upon request.

For the current legislative session CSDA is again tracking hundreds of bills by subject matter. The list of bills for Water, Conservation, and Open Space is included as **Attachment No. 13.b** for the Board's information. Additional information from both CASA and CSDA will be provided at future meetings.

Bay Area Clean Water Agencies (BACWA) tracks regulatory issues for Bay Area Publicly Owned Treatment Plants (POTWs). All three of LAVWMA's member agencies are members of BACWA. BACWA has an active website, www.bacwa.org, that keeps member agencies updated on issues of concern. BACWA works cooperatively with the regulatory agencies to ensure that regulations are reasonable , thoughtful, and effective. BACWA also produces a Key Regulatory Issue Summary to keep its members informed. The most recent version of the summary was released on February 3, 3021 and is included as **Attachment No. 13.c**. The summaries include hyperlinks that will provide more detailed information on the various issues.

A recent Appellate Court Decision may be of interest to the member agencies. In Department of Finance v. Commission of State Mandates ("Department of Finance II"), the Second Appellate

District of the California Court of Appeal recently held that local governments are entitled to subvention (i.e., reimbursement of costs) for certain stormwater permit trash receptacle requirements under article XIII B, section 6 of the California Constitution ("section 6") which provides for the reimbursement of costs of any state-mandated "new program or higher level of service." However, the court also found that these local agencies are not entitled to subvention for stormwater permit inspection requirements because, while such programs are new programs or higher level of service under section 6, in this instance the local agencies have the authority to levy fees sufficient to pay for those permit conditions. Still, the Court's ruling under section 6 is critical to local governments because state agencies were routinely arguing as a complete defense to stormwater-related test claims that stormwater programs mandated in permits were not new programs or higher levels of service. According to the Court, "[b]y requiring the local governments to comply with the trash receptacle and inspection requirements, the state agencies have effectively shifted the financial responsibility for such programs to the local governments."

Department of Finance II is this latest judicial ruling in the underlying action which was initially brought in 2009 and is based on permit conditions that were initially imposed in 2001. The California Supreme Court previously found in Department of Finance v. Commission on State Mandates (2016) 1 Cal.5th 749 ("Department of Finance I") that the permit conditions at issue were not federal mandates and therefore potentially subject to subvention by the state. The analysis in Department of Finance II is particularly important because it makes it much more likely that the Commission on State Mandates will grant the numerous stormwater test claims currently pending on its docket. Department of Finance II potentially has far-reaching implications as it suggests that many state-mandated permit requirements that cannot be charged to business dischargers may be subject to subvention. In addition to the trash receptacle requirements at issue, these requirements might include trash capture systems and other trash removal programs, green infrastructure requirements designed to reduce pollutant loads into stormwater, public education programs, etc. The issues in Department of Finance II are complex and have been litigated for more than a decade.

At previous Board meetings, 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.

Attachments
13.a CASA January 28, 2021 State Legislative Committee Agenda
13.b CSDA February 3, 2021 Water, Conservation, and Open Space Bills Summary
13.c BACWA February 3, 2021 Key Regulatory Issue Summary

State Legislative Committee
Thursday, January 28, 2021
3:00 p.m. – 4:00 p.m.
Please access link via conference platform

AGENDA

Call to order	Dave Pederson
Welcome / Introductions / Roll Call	"
Review/approval of Agenda	"

A. INFORMATIONAL ITEMS

	TOPIC	LEAD	POSITION/NOTES
1.	2021-22 State Legislative Committee Roster	J. Gauger	▪ Roster Attached
2.	SLC 2021 Meeting Schedule	J. Gauger	▪ SLC Final Meeting Schedule ▪ Updated legislative schedule

B. PRIORITY LEGISLATIVE ISSUES & UPDATES

	TOPIC	LEAD	POSITION/NOTES
1.	Non-flushable product labeling legislation re-introduction	J. Gauger	▪ Update on discussions with co-sponsors & author ▪ Legislative Counsel Language ▪ Federal efforts update ▪ Op-Editorial efforts
2.	Hertzberg re-introduction of stormwater authority bill	J. Gauger	▪ Draft language for review ▪ Update from Hertzberg staff
3.	Water-Energy Advocacy Coalition	J. Gauger A. Link	▪ Report out from 1/19 meeting ▪ CASA Water/Energy subcommittee ▪ Bills/issues flagged for referral
4.	PFAS Policy Roundtable	J. Gauger	▪ Report out from first meeting & next steps
5.	BioMAT CCA Bill Proposal	J. Gauger	▪ CalCCA Overview attached
6.	Mitigation Fee Act Reform	J. Gauger	▪ Report out from final workgroup meeting ▪ AB 59 Mitigation Fee Act 2021 o Language for review

C. LEGISLATION/ POTENTIAL LEGISLATIVE ISSUES FOR DISCUSSION

	TOPIC	LEAD	POSITION/NOTES
1.	SB 230 - State Water Resources Control Board: CEC Program	J. Gauger	▪ Language for review
2.	SB 45 - Wildfire Prevention, Safe Drinking Water, Drought Preparation, and Flood Protection Bond Act of 2022	J. Gauger	▪ Language for review

3.	SB 83 - California Infrastructure and Economic Development Bank: Sea Level Rise Revolving Loan Program	J. Gauger	▪ Language for review
4.	Senate Local Government Omnibus proposal	J. Gauger	▪ 2021 local government omnibus bill ▪ Attached draft language for review
5.	Vaccine Priority for Water Agency Essential Workforce	J. Gauger	▪ Vaccination priority update ▪ Final Utility Coalition Vaccine Letter attached
6.	2021-22 State Budget Funding Issues	J. Gauger	▪ Governor's January Budget ▪ GGRF Allocations ▪ Climate Catalyst Fund
7.	2022 SLCP/Climate Initiative Effort	J. Gauger	▪ Move CA effort to get $30 billion for infrastructure and incentives to reach climate goals on ballot

CLOSING

New Business	
Next Meeting	March 19, 2021 Via Zoom
Calendar	
Adjourn	

BACK TO BILL TRACKING

Water, Conservation and Open Space Bills

Wednesday, February 03, 2021

AB 100 (Holden D) **Drinking water: pipes and fittings: lead content.**

Current Text: Introduced: 12/11/2020 html pdf

Introduced: 12/11/2020

Status: 1/11/2021-Read first time. Referred to Com. on E.S. & T.M.

Location: 1/11/2021-A. E.S. & T.M.

Summary:

The California Safe Drinking Water Act prohibits, with certain exceptions, the use of any pipe, pipe or plumbing fitting or fixture, solder, or flux that is not lead free in the installation or repair of any public water system or any plumbing in a facility providing water for human consumption. The act defines “lead free” for purposes of conveying or dispensing water for human consumption to mean not more than 0.2% lead when used with respect to solder and flux and not more than a weighted average of 0.25% lead when used with respect to the wetted surfaces of pipes and pipe fittings, plumbing fittings, and fixtures. This bill would additionally define “lead free,” with respect to endpoint devices, as defined, to mean that the devices do not leach more than one microgram of lead under certain tests and meeting a specified certification.

Position: No position

Assigned: ASilhi

District Type: Water
Subject Area: Water, Wastewater, and Conservation
Issues: Water
Working Group: Public Works
CSDA SUMMARY:

AB 304 (Quirk D) Contaminated sites: waste releases or surface or groundwater contamination: local oversight: remedial actions.

Current Text: Introduced: 1/25/2021 html pdf
Introduced: 1/25/2021
Status: 1/26/2021-From printer. May be heard in committee February 25.
Location: 1/25/2021-A. PRINT
Summary:
Whenever a release of waste occurs and remedial action is required, current law authorizes a person, as defined, to request that a local officer supervise the remedial action. Current law authorizes a local officer to agree to supervise the remedial action if the local officer determines that certain conditions have been met. Current law requires that remedial action to be carried out only pursuant to a remedial action agreement, which includes specified elements, entered into by the local officer and the responsible party, and authorizes the local officer to withdraw from the agreement, after giving the responsible party adequate notice, at any time after making any of specified findings. This bill would authorize a person to request the local officer to oversee the remedial action only if the release of waste is not being overseen by the department or a regional water quality control board. The bill would authorize the local officer to agree to oversee the remedial action only if the local officer determines that the same conditions referenced above have been met, the local officer has submitted specified information to the department and the regional water quality control board within the past 12 months, and the local officer has complied with specified notification requirements.

Position: No position
Assigned: ASilhi
District Type: Sanitation/Wastewater
Subject Area: Water, Wastewater, and Conservation
Issues: Wastewater
Working Group: Environment

CSDA SUMMARY:

AB 377 (Rivas, Robert D) **Water quality: impaired waters.**

Current Text: Introduced: 2/1/2021 html pdf

Introduced: 2/1/2021

Status: 2/2/2021-From printer. May be heard in committee March 4.

Location: 2/1/2021-A. PRINT

Summary:

Would require all California surface waters to be fishable, swimmable, and drinkable by January 1, 2050, as prescribed. The bill would prohibit the state board and regional boards from authorizing an NPDES discharge, waste discharge requirement, or waiver of a waste discharge requirement that causes or contributes to an exceedance of a water quality standard, or from authorizing a best management practice permit term to authorize a discharge that causes or contributes to an exceedance of a water quality standard in receiving waters. The bill would prohibit, on or after January 1, 2030, a regional water quality control plan from including a schedule for implementation for achieving a water quality standard that was adopted as of January 1, 2021, and would prohibit a regional water quality control plan from including a schedule for implementation of a water quality standard that is adopted after January 1, 2021, unless specified conditions are met.

Position: No position

Assigned: ASilhi

District Type: Water

Subject Area: Water, Wastewater, and Conservation

Issues: Water

Working Group: Environment

CSDA SUMMARY:

SB 37 (Cortese D) **Contaminated sites: the Dominic Cortese "Cortese List" Act of 2021.**

Current Text: Introduced: 12/7/2020 html pdf

Introduced: 12/7/2020

Status: 12/8/2020-From printer. May be acted upon on or after January 7.

Location: 12/7/2020-S. RLS.

Summary:

Current law requires the State Department of Health Care Services to compile a list of all public drinking water wells that contain detectable levels of

organic contaminants and that are subject to water analysis by local health officers. Current law also requires the State Water Resources Control Board to compile a list of specified information, including, but not limited to, all cease and desist orders and cleanup and abatement orders issued under the Water Code that concern the discharge of wastes that are hazardous materials. Current law requires these agencies to update the information as appropriate, but at least annually, and to submit the information to the Secretary of Environmental Protection. Under current law, the Secretary for Environmental Protection is required to consolidate the information provided by these state agencies and distribute the information in a timely fashion to each city and county in which sites on the lists are located and to any other person upon request. The information consolidated and made available by the Secretary for Environmental Protection is commonly known as the "Cortese List." This bill would enact the Dominic Cortese "Cortese List" Act of 2021 and would recodify the above-described provisions with certain revisions.

Position: No position
Assigned: ASilhi
District Type: Water
Subject Area: Water, Wastewater, and Conservation
Issues: Water
Working Group: Environment
CSDA SUMMARY:

SB 273 (Hertzberg D) **Water quality: municipal wastewater agencies.**
Current Text: Introduced: 1/29/2021 html pdf
Introduced: 1/29/2021
Status: 2/1/2021-From printer. May be acted upon on or after March 3. Read first time.
Location: 1/29/2021-S. RLS.
Summary:
Would authorize a municipal wastewater agency, as defined, to enter into agreements with entities responsible for stormwater management for the purpose of managing stormwater and dry weather runoff, to acquire, construct, expand, operate, maintain, and provide facilities for specified purposes relating to managing stormwater and dry weather runoff, and to levy taxes, fees, and charges consistent with the municipal wastewater

agency's existing authority in order to fund projects undertaken pursuant to the bill. The bill would require the exercise of any new authority granted under the bill to comply with the Cortese-Knox-Hertzberg Local Government Reorganization Act of 2000. To the extent this requirement would impose new duties on local agency formation commissions, the bill would impose a state-mandated local program.

Position: No position
Assigned: ASilhi
District Type: General
Subject Area: Water, Wastewater, and Conservation
Issues: Wastewater
Working Group: Public Works
CSDA SUMMARY:

SB 282 (Dahle R) **State Water Resources Control Board.**
Current Text: Introduced: 2/1/2021 html pdf
Introduced: 2/1/2021
Status: 2/2/2021-From printer. May be acted upon on or after March 4.
Location: 2/1/2021-S. RLS.
Summary:
Current law establishes the State Water Resources Control Board, consisting of 5 members, in the California Environmental Protection Agency to exercise certain powers relating to water rights, water quality, and safe and reliable drinking water.This bill would make a nonsubstantive change in these provisions.

Position: No position
Assigned: ASilhi
District Type: Water
Subject Area: Water, Wastewater, and Conservation
Issues: SPOT
Working Group: Environment
CSDA SUMMARY:

Total Measures: 6

Total Tracking Forms: 6

KEY REGULATORY ISSUE SUMMARY

Updated February 3, 2021

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

Contents

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
NUTRIENTS IN SAN FRANCISCO BAY			
• 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 FY21, BACWA contributed the $2.2M required by the Watershed Permit, as well as “frontloading” an additional $0.4M to accelerate the pace of the science that will be used for management decisions for the third Watershed Permit. • The focus of current scientific efforts is improving model representation of biogeochemistry, light attenuation, dissolved oxygen, and Harmful Algal Bloom dynamics. Field and lab observations are supporting these improvements. • The science team is developing an Assessment Framework for deep subtidal habitats and Lower South Bay sloughs. • The science team is assessing the geographic zone of influence of each plant’s discharge, which will aid in developing management approaches.	• 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, Nutrient Management Strategy, Nutrient Technical Workgroup, and planning subcommittee meetings, and provide funding for scientific studies. • Form a Nutrient Technical Team that will engage a consultant to provide technical review of work products and charge questions for the science team.	BACWA Nutrients Page: https://bacwa.org/nutrients/ SFEI Nutrient Science Plan Documents: http://sfbaynutrients.sfei.org/books/reports-and-work-products

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
SF BAY NUTRIENT WATERSHED PERMIT			
• The first nutrient watershed permit was adopted in April 2014. The first watershed permit required a regional study on Nutrient Treatment by Optimization and Upgrades, completed in 2018. • The 2nd Nutrient Watershed Permit was adopted in May 2019 with an effective date of July 1, 2019. It 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 Regional Studies on Nature-Based Systems and Recycled Water o Support of scientific studies through the RMP at $2.2M per year through the five-year permit term.	• In December 2019, BACWA submitted scoping and evaluation plans for the Recycled Water and Nature-Based Systems studies required by the 2nd watershed permit. • Each year, BACWA submits a Group Annual Report on behalf of its members. The report summarizes trends in nutrient concentrations and loading for each agency, and for all the agencies as a whole. • The annual reporting period in the 2nd Watershed permit is based on a water year (October 1 – September 30th) The first group annual report submitted under the 2nd watershed permit was submitted in February 2020. • Each year by February 1, BACWA and SFEI submit an annual science implementation plan and schedule update, as required by the 2nd watershed permit. • Agencies with plans to substantially reduce nutrients are recognized in the Fact Sheet of the 2nd watershed permit.	• **Agencies respond to a BACWA survey regarding load projections for Total Inorganic Nitrogen.** • **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, and outreach to individual agencies will be conducted in several waves in 2021. • 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.	2nd Nutrient Watershed Permit: https://www.waterboards.ca.gov/sanfranciscobay/board_info/agendas/2019/May/6_ssr.pdf Scoping and Evaluation Plans for Recycled Water and Nature-Based Systems: https://bacwa.org/document-category/2nd-watershed-permit-studies/ Optimization/Upgrade Study Final Report: https://bacwa.org/wp-content/uploads/2018/06/BACWA_Final_Nutrient_Reduction_Report.pdf Optimization/Upgrade Report Brochure: https://bacwa.org/wp-content/uploads/2019/03/BACWA-2019-Nutrient-Brochure_Final_20190301.pdf BACWA Group Nutrient Annual Reports: http://bacwa.org/document-category/nutrient-annual-reports/

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
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. 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 worked with BACWA to develop a Basin Plan Amendment (BPA) modifying the effluent limit for chlorine residual. • The draft BPA includes: o A 0.013 mg/L Water Quality Objective in marine and estuarine waters, which will be applied as a WQBEL in permits and 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. • The BPA was adopted by the Regional Water Board on November 18, 2020. It will not go into effect until it is approved by the State Water Board, Office of Administrative Law, and EPA, which is expected by late 2021.	• Work with Regional Water Board staff to develop a regional blanket permit amendment that would implement the new BPA for all Region 2 dischargers at one time. This approach which would accelerate implementation compared to a slower, permit-by-permit rollout.	Final BPA adopted by Regional Water Board https://www.waterboards.ca.gov/sanfranciscobay//water_issues/programs/planningtmdls/amendments/chlorinebpa/2_Chlorine_Resolution_R2-2020-0031.pdf Final BPA Staff Report: https://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/planningtmdls/amendments/chlorinebpa/3_Chlorine_BPA_Final_staff_report.pdf BACWA Comment Letter on draft BPA: https://bacwa.org/document/chlorine-basin-plan-amendment-bacwa-comment-letter/

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
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.	• EPA reviews all registered pesticides at least once every 15 years. Each review allows opportunity for public comment. • 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 re-registrations. • 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. • Work with other regional associations to identify opportunities for collaboration.	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/
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 granting 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

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
MERCURY AND PCBS			
• The Mercury & PCB Watershed Permit was reissued in November 2017 with an effective date of January 1, 2018. 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 2019, the last year for which data have been compiled. • 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. In 2020, BACWA continued to fund a contract worth $12,500 to the California Indian Environmental Alliance to conduct risk reduction activities related to fish consumption. A previous contract for APA Family Support Services is now complete. • In 2017, EPA adopted federal pretreatment program rules requiring dental offices to install dental amalgam separators. The rule is intended to reduce dental office discharge of mercury. The compliance date was July 14, 2020.	• **Conduct outreach to dentists to ensure all facilities have completed the one-time compliance report required by the federal pretreatment program. The reports were due October 12, 2020.** • Continue outreach to dentists on mandatory 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: 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 One-Time Compliance Report for Dental Offices: https://www.waterboards.ca.gov/water_issues/programs/npdes/docs/drinkingwater/one-time_compliance_report_for_dental_offices.pdf

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
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 • 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. • Proposed Final Statewide Toxicity Provisions were released in October 2020, incorporating revisions to previous versions from 2018 to 2020. The Provisions 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 >5 MGD 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).	• The State Water Board adopted the Statewide Toxicity Provisions at its December 1, 2020 meeting. The Provisions are likely to come into effect in mid-2021 after review by OAL and EPA. • In December 2020, Regional Water Board staff provided BACWA with a copy of draft sample NPDES permit language. The sample permit language will ultimately be copied into each newly adopted permit in the region, filling in details about monitoring and screening requirements that the Provisions leave to Regional Water Board discretion. • Implementation is likely to be on a permit-by-permit basis as new individual NPDES permits are issued. • 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. Now that agencies will once again be required by the provisions to do sensitive species screening, this will reduce RMP funds by approximately $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.	• **Continue to work with Regional Water Board on language for implementing Toxicity Provisions in Region 2 NPDES Permits.** • Regional Water Board staff presented draft permit language to the BACWA Permits Committee at its December 2020 meeting, and it is being circulated for BACWA member review. • Collaborate with State Water Board, CASA and POTWs Statewide on the special study on the *Ceriodaphnia dubia* test method. • Develop an alternative funding mechanism for RMP CECs studies by seeking reduced monitoring for items other than chronic toxicity screening. A draft plan is under development.	SWRCB Toxicity Page: http://www.swrcb.ca.gov/water_issues/programs/state_implementation_policy/tx_ass_cntrl.shtml Toxicity Workshop Presentations from 2017 BACWA Workshop: https://bacwa.org/bacwa-toxicity-workshop-september-18-2017/ Regional Water Board presentation on implementation of Statewide Toxicity Provisions from December 2020 https://bacwa.org/wp-content/uploads/2021/01/Slides-from-RWQCB-Regarding-R2-Tox-Language-in-NPDES-Permits-2020-12-08.pdf

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
COMPOUNDS OF EMERGING CONCERN (CECS)			
• 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 (may apply to other matrices such as wastewater and stormwater in the future). • The OPC is funding a study in 2021 that will look at microplastic removal through wastewater treatment processes.	• **Continue to participate in the RMP CEC Workgroup.** • **Participate in studies of sunscreens (**2 facilities planned) **and microplastics** (6 facilities planned) **by collecting wastewater samples at member facilities.** • 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 via the CASA Microplastics Workgroup. • Continue efforts to provide a funding stream for RMP CEC studies based on reducing other NPDES permit monitoring and reporting requirements.	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

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
PER- AND POLYFLUOROALKYL 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 (PHGs) 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 2021 - refineries & bulk terminals • The Summit Partners held several PFAS Workshops on the SWRCB investigative order for POTWs in late 2020 and early 2021.	• 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, fourteen representative facilities collected samples in Q4 2020 for influent, effluent, RO concentrate, and biosolids. SFEI will analyze data and prepare report (anticipated May 2021). o Phase 2 will be conducted in Summer/ Fall 2021 and will be designed based on recommendations from Phase 1 report. • BACWA will continue collaboration with Summit Partners and non-governmental organizations on legislation related to pollution prevention, as well as tracking developments at the State and Regional level.	Region 2 PFAS Study Phase 1 Sampling Plan: https://bacwa.org/wp-content/uploads/2020/12/SFEI-Final-PFAS-SAP-Phase-1-2020-11-23.pdf Summit Partners PFAS Workshop presentations: https://casaweb.org/calendar/speaker-presentations/ SWRCB Investigative Order for POTWs: https://www.waterboards.ca.gov/board_decisions/adopted_orders/water_quality/2020/wqo2020_0015_dwq.pdf 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

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
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 components to be included: o Resiliency assessment o Sewershed mapping o Reporting of PSL spills o Improvement of CIWQS data quality o Study of the impact of exfiltration and leakage o Updated SSMPs that are more enforceable o Potential incentives for well performing systems o A new "Category 4" for SSOs less than 50 gallons that do not need to be reported • 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 and 2020.	• Review and comment on draft SSS WDR when available for public comment, expected in Q1 2021. 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/

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
ELAP UPDATE			
• In May 2020, the State Water Board adopted new comprehensive regulations for the Environmental Laboratory Accreditation Program. • Adoption of the new regulations was required by AB 1438, legislation that became effective in 2018. • The new ELAP regulations will replace the current state-specific accreditation standards with a national laboratory standard established by The NELAC Institute (TNI).	• The new ELAP regulations became effective as of **January 1, 2021**. Compliance with TNI standards is required beginning **January 1, 2024**. • Adoption of TNI standards poses a challenge since there are more than 1,000 individual requirements. Setup costs may include: o Hiring and/or training staff; o Hiring consultants to set up the TNI documentation framework; o Purchasing Laboratory Information Management System (LIMS) software; o Purchasing documents and training material from TNI, etc. • The new standards will be a particular burden on small laboratories, which may choose to close if they cannot economically meet the new standards. • In June 2020, ELAP staff presented on the State Water Board's new 'Roadmap to ELAP Accreditation' program at the Lab Committee meeting.	• Continue to work through BACWA's Laboratory Committee to support members as they navigate laboratory accreditation under the new TNI standards. • Publicize training opportunities offered by consultants, ELAP, and others. • Provide a forum for BACWA laboratories to share experiences and lessons learned from various approaches to TNI implementation.	State Water Board's 'Roadmap to ELAP Accreditation' page: https://www.waterboards.ca.gov/drinking_water/certlic/labs/roadmap_to_elap_accreditation.html Roadmap to Accreditation Presentation to BACWA Lab Committee: https://bacwa.org/wp-content/uploads/2020/06/California-ELAP-Regulations-BACWA_06092020.pdf State Water Board's ELAP regulations page: http://www.waterboards.ca.gov/drinking_water/certlic/labs/elap_regulations.shtml

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
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. • Regulations implementing SB 1383 were approved by the Office of Administrative Law on November 9, 2020. The regulation will become effective on January 1, 2022, when states can begin enforcement on jurisdictions. Jurisdictions can begin local enforcement January 1, 2024, and compliance is required by January 1, 2025.	• While the regulations implementing SB 1383 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. • Requirements in the final regulations include: o Diverted biosolids must be anaerobically digested and/or composted to qualify as landfill reduction. o Incineration and surface land disposal sites are designated as "landfills" for accounting purposes. o Local ordinances restricting biosolids land application are disallowed. o Jurisdictions that divert organic waste must also procure the end products of diversion, such as biogas, biomethane, and compost (biosolids are not included at this time).	• 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 Organics Recovery Technical Working Group to educate their staff on how to address implementation of SB 1383 at the Air District level. • Meet with BAAQMD management regularly in 2021 to discuss alignment of state and local regulations.	BACWA 2018 Biosolids Trends Survey Report: https://bacwa.org/document/2018-biosolids-trends-survey-report/ 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 White Paper on SB 1383 Implementation: https://bacwa.org/document/summary-of-sb-1383-and-its-implementation-casa-2020/

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 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. • In October 2020, Governor Newsom signed Executive Order N-82-20 calling for nature-based land management strategies to address climate change, such as wetlands restoration.	• 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. However, rule development has been suspended due to COVID-19 and lack of data. The delay is allowing time to develop information about current best management practices.	• 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 Organics Recovery Technical Working Group, as well as comment on draft Rules. o Develop information about current best management practices at anaerobic digesters and lagoons.	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. • Climate change and water resilience continue to be strategic priority of the Regional Water Board in FY21. • In April 2019, Governor 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 is planning to distribute a survey to all POTWs in the region in 2021 to collect information about climate vulnerability and adaptation. This survey will be more detailed than the State Water Board's survey. Several BACWA members are test-driving the survey in January and February 2021. • 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. o 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.	• **Respond to the Regional Water Board's climate change survey, which is expected to be distributed to all POTWs in approximately March or April 2021.** • 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 released in the first half of 2021. • Continue to work with Regional Water Board and other resource agencies 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, AB 617, AND AB2588			
• 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 air toxics and GHGs). POTWs within communities already impacted by air pollution 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 has been slow to roll out and is now expected to begin in Q2 2021** 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.	• **Priority: Agencies should use the tool developed by the AIR Committee to address emission contributions from influent flows, which will be used to update emissions inventory values.** • **Respond to BAAQMD data request beginning in Q2 2021. There will be a 60-day turn-around to comply with the data request.** • Meet with BAAQMD management more frequently in 2021 to discuss alignment of state and local regulations • 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. CARB has tentatively 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). Final rule-making documents are expected in February 2021. 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 BAAQMD Prioritization Scores for AB 11-18: https://www.baaqmd.gov/~/media/files/ab617-community-health/facility-risk-reduction/documents/implementation-procedures_august_2020-pdf.pdf?la=en Rule 11-18 Process Flowchart: https://bacwa.org/document/baaqmd-11-18-process-flowchart-08-17-17/ BAAQMD page on AB 617: http://www.baaqmd.gov/rules-and-compliance/rule-development/barct-implementation-schedule CARB page on AB 617 and AB 2588: https://ww2.arb.ca.gov/our-work/programs/criteria-and-toxics-reporting

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 statewide 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. • As of 2020, recycled water production must be reported to the state's GeoTracker.database by April 30 each year. This requirement is being included in all newly issued NPDES permits.	• Support member agencies as they implement new monitoring and reporting requirements. • BACWA Recycled Water Committee continues to collaborate with Regional Water Board staff. In September 2020, Committee leaders provided 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 NOA and MRP for enrollment of Bay Area agencies in statewide General Order: https://bacwa.org/wp-content/uploads/2020/11/2020-04_NOA-Recycled-Water-04-08-20.pdf September 2020 Regional Water Board staff report: https://www.waterboards.ca.gov/rwqcb2/board_info/agendas/2020/September/7_ssr.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)
MGD	Million Gallons per Day
NACWA	National Association of Clean Water Agencies
NELAC	National Environmental Laboratory Accreditation Conference
PCB	Polychlorinated Biphenyl
POTW	Publicly Owned Treatment Works
PS	Prioritization Score
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

ITEM NO. 14 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 475 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.
DSRSD's January 12, 2021 Asset Management Program Bi-Annual Progress Report is included as **Attachment No. 14.a.** This document describes the Asset Management Program's status, goals, and resources required for continue improvements, which all apply to LAVWMA. The DSRSD staff person in charge of the program, Aaron Johnson, also reports the following for LAVWMA:

a. New Labels have been purchased and include the LAVWMA Equipment. Shawn is going to come up with a strategy for placement.
b. Maintenance staff is starting to use Lucity Mobile and Web to move to a paperless Work Order system.
c. Staff are focused on replacement modeling and project creation for the 10yr CIP program for DSRSD. A meeting will be held to discuss setting up a similar program for LAVWMA.
d. DSRSD is revising the Strategic Plan Tasks to reflect our need to focus on capturing corrective repair and equipment inspection data to refine or operational and replacement expenditure forecasts. Also further integration of the CMMS and GIS. This will also apply to LAVWMA.

Aaron Johnson has requested and was granted approval to start the process of moving the LAVWMA Pipelines from the equipment module to the Sewer Module in Lucity. This would allow importing the latest inspections into Lucity and provide ease of access to the data.

2. Records Management Project.

This project nearing completion. The consultant finished the active files project in late January 2021. Some boxes that were temporarily misplaced due to the office flooding have been located and all files have been added to the system. All active LAVWMA files are in Versatile, labeled with barcodes, and are in the file cabinets organized by record series. The files in the storage vault were finished in August 2020 and those files are also inventoried in Versatile and labeled. The consultant also placed an active records management manual on Sue Montague's desk. Since she will be retiring, we will need to we can train the new assistant when the person is hired. The consultant also provided an updated file destruction listing, a full active file listing, and two box listings for our reference. One box listing is very large and contains all of the files by box so you can search on files as needed.

As for the files that might be destroyed, they need to be checked first to ensure there is no need to keep or digitize before destruction. LAVWMA does not have a formal records retention policy, but has typically followed the lead of DSRSD's policy, which is consistent with the Secretary of State's Guidelines. If the Board would prefer its own records retention policy the General Manager and General Counsel can prepare one for the next Board meeting.

3. EBDA Issues.

Please refer to the discussion under **Item Nos. 10, 11, and 12**.

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. 14.b** 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.

6. NPDES Permit Renewal

LAVWMA's NPDES permit for the emergency wet weather discharges to San Lorenzo Creek and Alamo Canal expires on May 31, 2021. The Report of Waste Discharge (ROWD) was due to be submitted on August 31, 2020 in order to start the process for a new five-year permit. The ROWD is a complex document and includes the following items:

1. State Form 200
   This is a State Form that included basic information.
2. USEPA Form 2A
   This is a federal form that includes much of the information listed below in addition to basic information.
3. Maps and Schematics
   This includes facility maps, topographical maps of facilities and discharge points, and aerial photos of the discharge points.
4. Supplemental Information for Report of Waste Discharge
   A. Facility Description
      This is just basic information.
   B. Data Compilation
      This includes conventional pollutant and toxics pollutant data in tabular and spreadsheets for the last five years.
   C. Monitoring Data Validity
      The discharger must certify the validity of the data and can also request elimination of data for cause such as failure to meet quality control/quality assurance data. LAVWMA had not problems with data.
   D. Basin Plan Discharge Prohibition 1
      The Basin Plan prohibited discharge to surface water with a less than 10 to one dilution. The ROWD must justify an exception to the dilution requirement for the prohibition to be waived.
   E. Dilution Credits
      Modelling studies must document actual expected dilution under various conditions.
   F. Operational Changes

Request operational changes must be listed. LAVWMA had no significant operational changes.

G. Anticipated Limits – Reasonable Potential Analysis
This is a complicated process that compares concentrations of over 120 toxic pollutants with receiving water concentrations and water quality standards. Fortunately, LAVWMA did not show any reasonable potential to exceed water quality standards and will not have any effluent limitations for toxic pollutants. The only effluent limitations will be for standard items.

Due to the uncertainty surrounding capacity issues in the EBDA system and O&M issues for the pump station and SLSS related to that capacity, the ROWD submittal was delayed four times, all with the approval of the Regional Board. At long last in late December 2020 the capacity issues were resolved with EBDA, such that the current capacity conditions were determined to be acceptable to all parties. The ROWD was submitted on January 11, 2021. The report was reviewed by the member agencies prior to submittal. The ROWD is 97 pages in length and is not included in this packet, but is available upon request. It will also be posted on the LAVWMA website.

LAVWMA's administrative draft of the Tentative Order (Note that Order and NPDES Permit are effectively the same) was received on January 28, 2021 and comments are due on February 8, 2021. A redline/strikeout version of the draft was compared with the 2016 Order. Due to formatting changes and the need to make all current and future orders ADA compliant, the changes appeared to be more substantial than they actually are. The draft Order was thoroughly reviewed and comments were added where there were changes from 2016. There were no significant issues. Key elements of the draft order include the following:

1. A provision allowing testing of the Alamo Canal Discharge similar to the provision allowing testing of the San Lorenzo Creek discharge.
2. There are no effluent limitations for toxics per the reasonable potential analysis. Limits for lead were deleted.
3. The bacteriological standard has been changed from fecal coliform to *Escherichia coli* using the Colilert test. This is the new standard for discharging to freshwater streams. The DSDSR lab will need to become certified for the Colilert test for wastewater. They are already certified for that test in drinking water, so the certification will not be an issue.
4. A four to one dilution credit for ammonia was approved resulting in no effluent limit.
5. Annual testing for ammonia, pH, and temperature. Priority pollutants remains at once during the permit cycle for the effluent and both receiving waters. This data will be used to determine reasonable potential for the next permit cycle.

6. There are numerous modifications to the federal standard provisions and the regional standard provisions. These provisions are standard to all permits and many do not apply to LAVWMA, but will apply to the treatment plants when their permits are renewed next year.
7. There is a carryover requirement for sampling twice for pH, temperature, salinity, ammonia, and dissolved oxygen during wet weather discharges. Sampling during wet weather discharges is difficult and LAVWMA will make a request to change the sampling frequency to once per event. This would be consistent with similar wet weather permits.

The member agencies and General Counsel met with the General Manager via Zoom on February 4, 2021 to discuss the administrative draft Order. No additional issues were identified and LAVWMA will submitted its comments on February 8, 2021 as requested by the Regional Board. Recent communication from the Regional Board thanked LAVWMA for its thorough and thoughtful review of the draft Order, particularly addressing the sea level rise issue noted previously. Regional Board staff is in the process of making modifications to the draft order and expects it to be posted to their website and thus available for public comment around March 1, 2021. It is expected that LAVWMA's permit will be on the Consent Calendar of the Regional Board's agenda at its May 12, 2021 Board meeting.

7. Other Items

The General Manager and General Counsel have been discussing the possibility of including a section in this report that lists awards and recognition received by the member agencies. This could be awards from CASA, CSDA, League of Cities, professional associations, etc. Input from the member agencies on this item is welcome.

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 Board Agenda and prepared packet for distribution.
- Drafted minutes from November 18, 2020 Board meeting and revised based on comments received.
- Made updates to website as needed for files and legal requirements. Worked with General Counsel and member agency staff and website developer in updating the website. Website went live in late January 2021. Participated in training session with website developer to learn how to edit the various pages on the website. Updated the new site to include new Board members and documents.

- 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. Coordinated execution of agreements with Royal Electric for construction and Psomas for construction management. Issued Notice of Potential Award and Notice to Proceed to Royal Electric.
- Obtained past two years PG&E bills and created spreadsheet and chart for 2020 showing how all the charges are calculated and trend during the year. Scheduled and hosted two Zoom meeting to discuss PG&E cost and operating issues with DTN Engineers and DSRSD staff.
- 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. Reviewed draft and final technical memos for the SLSS project. Modified scope of project to include addressing sea level rise.
- Worked with HydroScience and DSRSD staff on the results of the pipeline inspection. Reviewed preliminary reports.
- Monitored progress of pump station and O&M projects managed by DSRSD staff, including repair or replacement of four pumps, and basin sealing project.
- Reviewed and approved invoices for MCC design, HydroScience project, website development, MCC construction management, corrosion control project, and records management project for payment by DSRSD. Twice 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.
- Continued 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.
- Reviewed and provided comments on EBDA's disinfection master plan RFP. Reviewed the single proposal that was received.
- Tracked progress of Corrpro cathodic protection project on the pipelines.
- 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.

- Participated in EBDA and LAVWMA Ad Hoc Committee meetings to resolve term sheet issues for a new Master Agreement. Continued discussion on EBDA agreement issues with Ad Hoc Committee, General Counsel, DSRSD Assistant General Manager, and SAG members on several occasions. Drafted talking points for Chair to use at EBDA Commission meeting. Participated in many Zoom meetings and email discussions on EBDA term sheet issues. Eventually reached consensus on a term sheet to provide the basis for a new Master Agreement. Updated cost scenarios to include existing capacity with increased fixed costs.
- Prepared Budget Modification No. 2 for FY2020/21 to include SLSS and EBDA cost increases.
- Began preparing statement of facts listing Board members for submittal to Secretary of State.
- Reviewed summary of debt refinancing provided by Treasurer.
- Reviewed Board member Form 700 filings.
- 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 additional extensions on submittal date from Regional Board staff. Refer to above discussion on the ROWD and permit renewal process.
- Participated in NPDES permit reveal process for EBDA, DSRSD, and Livermore.
- Prepared and submitted monthly invoices for LAVWMA General Management services.
- Provided requested information, including report on internal controls, to insurance carrier SDRMA. Completed SDRMA renewal questionnaire for FY2021/22 coverage.
- Reviewed and commented on 2nd 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.
- Continued setting up a DocuSign account to comply with Electronic Signature Policy.
- Reviewed EBDA and DSRSD agenda packets.
- Requested, received, and updated website contact information for new and ongoing Board members.
- Responded to various emails and phone calls from outside agencies and organizations.
- Worked with General Counsel to renew agreement for General Manager services for an additional three years.

Attached for the Board's information, is the most recent Action Item List, **Attachment No. 14.c**.

Next Meeting
The next Regular Board meeting is scheduled for May 19, 2021.

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

Attachments

14.a. DSRSD Asset Management Program Bi-Annual Progress Report
14.b FYE21 Capital Projects Planning List
14.c LAVWMA Action item List

To:	Senior Managers
CC:	Irene Suroso, Shawn Quinlan, Renee Collins
From:	Aaron Johnson
Date:	1/12/2021
Subject:	Asset Management Program Bi-Annual Progress Report

This memorandum presents the Bi-Annual Progress Report for Senior Managers describing the Asset Management Program's status, goals, and resources required for continued improvements.

Mission: ***Provide timely, reliable, accessible, consistent data to support District fees and rates and assist with Work management decisions***

DSRSD STRATEGIC PLAN ITEM 4

1. Develop a fully integrated Asset Management Program to guide all the District's business decisions
2. Place greater emphasis on preventative maintenance in our operations
3. Integrate capital improvement program planning and operations / maintenance activities to optimize life-cycle costs

CURRENT STRATEGIC GOALS:

Asset Management Strategic Plan Item	Related Divisions	Assist with equipment identification and labeling at the WWTP
Item 4-2	Mechanical Maint./ Electrical and Automation	Working with the asset management core team, inventory physical assets, gather nameplate information, recommend PM schedules (or modify existing), and install new Lucity Tags on all WWTP equipment by March 31, 2019.

Status: Inventory of mechanical Equipment is complete. Forms are available within mobile app to track/inventory new equipment. Email alerts are set up to facilitate the process of adding the equipment records into Lucity. Electrical Equipment Inventory as part of the Arc Flash study has been entered into Lucity to fill in the blanks of information critical to the Replacement model. All purchased Tags have been placed on the Equipment in the field for Equipment receiving a Tag. PM Schedules have been updated on the Equipment along with on-going updates as Technicians/Operators make changes. As Lucity Mobile is used more the nameplate information can be updated over

time. The electronic equipment form used to track new equipment installations via mobile or web will also allow the operators/technicians to submit updates to the equipment information.

Asset Management Strategic Plan Item	Related Divisions	Improved Asset Data Collection:
Items 4-1 , 4-3	All Operations, Engineering	Maintain timely, reliable, accessible data for the development of District Fees and Rates. **Measurement of Success:** Identify and input All Equipment into Lucity from Digester 4 Project By 12/1/2018. Ensure that all existing assets of the Potable and Recycled Distribution system are populated in Lucity by 12/1/2018. Complete Identification and Labeling of major Assets at the WWTP

Status: All Equipment from Digester 4 has been populated in Lucity. Maintenance Staff has completed a review of the Potable and Recycled Distribution System equipment and updated information as needed. Labeling of Major Assets is On-Going.

Asset Management Strategic Plan Item	Related Divisions	Lucity Training
Item 4-2	ITS, Operations Support Services	Training on Locating assets for creating Work Requests and work orders. Closing PM's. Using Lucity Mobile. Mechanical Electrical trained by 1/1/2019. Operators trained by February 2019 Complete Lucity Training of operations staff by 6/30/2019. **Measurement of Success:** Going forward all corrective work orders will be entered and have assets attached. PM's are no longer closed solely by Admin Tech.

Status: Complete

Multiple Training sessions have been provided to Operators (Treatment and Field), Electrical/instrumentation, and Mechanical Maintenance. The Facilities Maintenance Group is currently moving to paperless work-orders management. Work Order / Work Request creation is being completed via web or mobile.

ACCOMPLISHMENTS SINCE LAST MEETING:

- Modified LAVWMA Equipment ID's to align with a new structure and Purchased labels.
- Completed a location-based Consequence of Failure (COF) analysis of WWTP processes.
- Assigned Probability of Failure (POF) to WWTP equipment based upon PM work order data.
- Completed the base level Business Risk Evaluation (BRE) for WWTP Equipment.
- Process / Dig Form is in-place to capture changes to the Distribution System and link documents to the GIS/Lucity assets from Blow off valve replacement CIP and Scheduled Repairs.
- American Water Infrastructure Act System evaluation completed.
- Assisted in the development of an inspection plan for the LAVWMA Export pipeline System.
- Migrated documents and goal/task tracking to Microsoft Teams.
- Upgraded to Innovyze InfoAsset Planner Software.
- Lucity Mobile work order and Asset Forms have been created, and training has been completed for Operations Staff.
- Updated Replacement cost and Installation Dates for Lucity Equipment to ensure the maximum amount of Equipment is accounted for in the Replacement Model.
- Provided Operations and Engineering with updated Replacement Model Data to be used as part of the Budget Process.
- Water Capacity Reserve Fee Study Data Update.
- Facility Roof Inspections and inventory data being added to Lucity.

CURRENT ACTION ITEMS:

- Continue labeling and Equipment Q/C.
- Continue training for Lucity end users.
- Develop SOP so that PM's can be closed via web instead of paper being given to Admin Tech for data entry/closing.
- Develop a 10yr Collection System Rehab Plan in Infomaster.
- Ensure that the Primary Project Equipment is in Lucity and linked with O&M's loaded into OnBase as they become available.
- Continue to work with finance on the Purchasing Policy / SOP for purchasing Equipment to ensure ID's are listed when available.
- Work towards making sure that Asset Management goes the way of Total Quality I Improvement (TQI). It becomes a way of doing business.
- Continuing on-going effort to improve the ease of use on Lucity. Make improvements based on input from staff.
- Begin the process of creating a GIS layer for the Lucity Equipment.
- Develop better methods of sharing data related to Asset Management (Dash Board) DSRSD's Enterprise GIS Portal and Insights for ArcGIS may be a solution.

- Continue to improve the West Yost Replacement model with modifications to how it addresses rehab of assets.
- Make improvements for the audit of data and retrieval and storing methods in regards to CIP project creation, Budget, fees, and Rates.
- Import Fleet data in Lucity to align the information in Verizon and allow for an easy update to CSRMA.
- Work to integrate/Link EDEN asset registry with Lucity.
- Determine Level Of Service (LOS) for DERWA
- Perform Business Risk Evaluation for DERWA

ADDITIONAL GOALS:

Asset Management Strategic Plan Item	Related Divisions	Monitor and ensure initiatives are moving forward
Item 4-1	Engineering	Create reporting tools to monitor the work that is happening as part of the Asset Management program to make sure that initiatives are moving forward, Requirements are being met, and Goals are getting accomplished by 2/1/2020.

Status: We have Metrics for tracking the application and purchase of labels and assets tied to work orders. Lucity now has drill downs available to show what Equipment is still missing critical information pertaining to the replacement model.

Asset Management Strategic Plan Item	Related Divisions	Combined Goal: Develop Methodology to Identify Critical Equipment
Item 4-3	Mechanical Maint./ Electrical and Automation/ Engineering	Working together, agree upon the methodology for selecting critical assets and identify assets of the WWTP by 2/1/2020 Develop a Criticality / Risk matrix for all major vertical assets and ensure that spare parts are on hand or spare units as needed based on the level of criticality by 6/30/2020.

Status: A Business Risk Evaluation has been completed for WWTP assets. A Critical parts list has been created for DERWA and spare parts are being stocked or budgeted for purchase. Information from Critical parts information needs to be incorporated into the assessment. Criticality information developed from the AWIA project will be used as a BRE baseline for Potable Distribution System Assets.

Asset Management Strategic Plan Item	Related Divisions	Improved Repair Data Collection and accessibility
Item 4-2	All Operations, Engineering	Maintain timely, reliable, accessible repair data **Measurement of Success:** Provide a way to view previous repairs in the field that makes it easy to quickly identify and get information on past nearby repairs during a scheduled or unscheduled repair. Provide Field Operations ability to capture and share real time valve closures via app by 7/1/2021.

Status: Gaps in the flow of information have been identified. Tools for capturing and sharing data have been identified. Scheduled repairs are getting documented with inspector created as-builts being imported into Onbase and then linked to the GIS/Lucity asset inventory. Unscheduled repairs are documented in Teams Planner. Backlog of repairs needs to be added to Lucity as a work order. This task is on-going and will be resolved via the import of a table rather than entering the past repairs one by one. Linking Planner task Url's to the associated work orders may be a solution. Engineering staff will be responsible for creating the work order and attaching the documentation of the repair. This will be made easier by using email based work requests.

Asset Management Strategic Plan Item	Related Divisions	Complete baseline Business Risk Evaluation of Distribution Systems and DERWA Treatment Facility
Item 4-3	Mechanical Maint./ Electrical and Instrumentation/ Engineering	Develop Consequence of Failure, Probability of Failure to determine a Risk rating for Equipment. Incorporate the completed AWIA Assessment into the methodology by 1/1/2022

Status: Not started. AWIA Criticality Assessment is completed and can be incorporated into the BRE.

RESOURCES:

The expanded use of Lucity is essential to the success of the Asset Management Program. Documentation of work history is a critical component to any Asset Management analysis or advanced strategic replacement program. We recommend that Management continue your support for Lucity and the goals of the Asset Management Program. Please encourage the use of mobile technology and moving everyone to a paperless work order environment.

LAVWMA FYE21 Capital Projects
Modified 2/3/2021

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 complete. 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. Royal Electric is the contractor. A preconstruction meeting was held January 26, 2021. Submittals due in February and March 2021. Equipment will then be ordered for delivery approximatleuy 90 days from that point.
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. Check valves also being rebuilt.	Quinlan			Project now includes four pumps and motors due to failure of a check valve allowing the pump to turn in reverse damaging both pump and motor. All four pumps are being evaluated by R.F. McDonald for repair and/or replacement. Reports on all four should be received by the end of February. Decisions will be made at that point. Motor will be rebujilt as each pump is replaced.
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			Project is underway. Additional damage has been identified and will be included in the project.
San Leandro Sample Station Design Improvements.	$670,000	6/30/2021	High		Weir/DSRSD staff			Detailed discussion in February 17, 2021 Board packet. Project will now also address porbable sea level rise at the facility to ensure the ability to continue the emergency discharge as needed.

LAVWMA FYE21 Capital Projects
Modified 2/3/2021

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
Road Drainage Improvements at the Pump Station.	$35,000	12/31/2020			TBD			To be combined with similar projects at DSRSD.
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:** **Feb-21**

SAG Task	Responsible Party	Due Date	Status	Completion Date
Items for February 17, 2021 LAVWMA Board Meeting	SAG	11/10/2020	Usual reports, updates on Risk, MCC and Corrosion Protection projects, approval of term sheet for EBDA agreement renewal, 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 (ran many scenarios with the model, but enede up with same 19.72 MGD firm capacity, 41.2 MGD max capacity, and all above 19.72 MGD subject to interruption), storage basin management (no longer an issue), SLSS improvements (have a near final report that is under review and have added task to address sea level rise), pipeline inspection results and recommendations for future inspections (draft report under review). Pipeline inspections were completed in October. More than 28,000 feet were inspected.	
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. Contract issued to Royal Electric. Notice to Proceed dated December 16, 2020. Psomas hired as construction manager. Preconstruction meeting held January 26, 2021. Submittals due in February and March; equipment to be order following their approval. Project on schedule for completion by the end of this year.	
Rebuild Three Pumps and Their Associated Motors. Estimated cost $216,000	Quinlan	12/31/2020	All three pumps were sent to R.F. McDonald to inspection and estimate repair costs. All three are beyond repair and will need to be replaced. Planning on a formal bid package for four pumps to include the recently damaged one as well. Will likely use same engineering firm that provided the plans and specs for three new pumps three years ago.	
Resealing of all Three Storage Basins. Estimated cost $200,000	Quinlan	12/31/2020	Project was combined with sealing of DSRSD's storage basins. One basis is complete. A second one is nearing completion and needed additional work to repair cracking. The third basin will be repaired in March. Total cost	
San Leandro Sample Station Design Improvements. Estimated cost $670,000	TBD	6/30/2021	Project now not as critical since flows to EBDA will be the same as in the past. Project is still needed to avoid having to send staff to the SLSS everytime a discharge to the Creek is needed. Same applies to flap gagte tests, except for visual inspection of all equipment and flap gagte during a test. Cost estimate is now $570,000, which will require a budget modification. Based on questions from the Regional Water Board during the permit renewal process $100,000 has been added to the project to consider effects of sea level rise at the facility and to design and construct a modification to ensure long term ability to discharge.	
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 is proceeding.	
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.	
Live test of SLSS system	Fuller/Atendido	TBD	Conducted in April 2019. No significant issues. Has been impossible to plan for a test due to COVID-19 restrictions.	
Live test of Alamo Canal discharge during wet weather	Carson/Fuller	TBD	Test postponed due to COVID-19. Was planning on this winter, but will likely be delayed until 2022 due to COVID-19.	
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.	

ITEM NO. 18 THIRD AMENDMENT TO THE AGREEMENT FOR GENERAL MANAGEMENGT SERVICES WITH CHARLES V. WEIR DBA WEIR TECHNICAL SERVICES

Action Requested
That the Board adopt a Resolution approving a three-year extension to Charles V. Weir's contract to provide General Management Services for LAVWMA.

To: LAVWMA Board of Directors

From: Alexandra M. Barnhill, General Counsel

Subject: Consideration of Adoption of Resolution Approving the third Amendment to the Agreement for General Management Services with Charles V Weir, dba Weir Technical Services.

Summary
Charles Weir ("Mr. Weir") has served as LAVWMA's General Manager since April 17, 2014. The Agreement for General Management Services between Livermore-Amador Valley Water Management Agency and Charles V. Weir, dba Weir Technical Services ("Agreement") establishes the terms of Mr. Weir's tenure as General Manager. That Agreement has been amended two times and will expire on April 17, 2021. The Board is being asked to consider approving an extension. As with the prior amendment and consistent with the General Manager's projected retirement, General Counsel is recommending that the Board consider an extension of three (3) years.

Recommendation
It is recommended that the Board approve a three-year extension of Mr. Weir's contract by adopting the attached Resolution.

Attachments
18.a Resolution No. 21-01
18.b Third Amendment to the Agreement for General Management Services between Livermore-Amador Valley Water Management Agency and Charles V. Weir, DBA Weir Technical Services

LIVERMORE AMADOR VALLEY WATER MANAGEMENT AGENCY

RESOLUTION NO. 21-01

RESOLUTION APPROVING THE THIRD AMENDMENT TO THE AGREEMENT FOR GENERAL MANAGEMENT SERVICES WITH CHARLES V. WEIR, dba WEIR TECHNICAL SERVICES

WHEREAS, the Livermore-Amador Valley Water Management Agency ("LAVWMA") is a joint powers agency formed pursuant to the Amended and Restated Joint Exercise of Powers Agreement for the Livermore-Amador Valley Water Management Agency dated July 21, 1997;

WHEREAS, LAVWMA owns and operates a pump station, pipeline and other facilities to transport treated wastewater treatment plant effluent from the jurisdictions of the Member Agencies to an outfall in San Leandro;

WHEREAS, LAVWMA requires services of a General Manager to serve as its chief executive officer to conduct its day-to-day business, and to carry out LAVWMA's wastewater transportation program and related activities;

WHEREAS, on April 17, 2014, LAVWMA and Charles V. Weir, dba Weir Technical Services ("Weir") entered into the Agreement for General Management Services Between Livermore-Amador Valley Water Management Agency and Charles V. Weir, dba Weir Technical Services ("Agreement") wherein Weir agreed to serve as General Manager of LAVWMA and oversee all management and administration of LAVWMA's operations according to the terms established in the Agreement.;

WHEREAS, on April 20, 2016, LAVWMA extended the Agreement for an additional two-year term via Resolution 16-02;

WHEREAS, on February 21, 2018, LAVWMA extended the Agreement for an additional three-year term via Resolution 18-01;

WHEREAS, pursuant to Section 7(a) of the Agreement, it will expire in April 2021 unless it is extended for an additional term by mutual consent of the Parties;

WHEREAS, LAVWMA and Weir now mutually desire to extend the Agreement for an additional three-year term;

NOW, THEREFORE BE IT RESOLVED that the Board of Directors of the Livermore Amador Valley Water Management Agency as follows:

1. The Third Amendment to the Agreement for General Management Services between LAVWMA and Charles V. Weir, dba Weir Technical Services, which is attached hereto as Exhibit A and incorporated by this reference, is hereby approved, subject to minor

modification by the General Counsel. The Board Chair is hereby authorized and directed to execute this Agreement for and on behalf of LAVWMA.

DULY AND REGULARLY ADOPTED by LAVWMA this 17th day of February 2021, by the following vote:

AYES:

NOES:

ABSENT:

LIVERMORE AMADOR VALLEY WATER MANAGEMENT AGENCY

By: _____
Bob Woerner, Chair

ATTEST:

By:_____
Charles V. Weir, General Manager

THIRD AMENDMENT TO THE AGREEMENT FOR GENERAL MANAGEMENT SERVICES BETWEEN LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY AND CHARLES V. WEIR, DBA WEIR TECHNICAL SERVICES

This Third Amendment ("Third Amendment") to the Agreement for General Management Services Between Livermore-Amador Valley Water Management Agency and Charles V. Weir, dba Weir Technical Services ("Agreement"), is hereby entered into on this 17th day of February, 2021 by and between the Livermore-Amador Valley Water Management Agency, a public agency ("LAVWMA"), through its Board of Directors ("Board"), and Charles V. Weir, dba Weir Technical Services ("Weir"), with reference to the following facts and intentions:

RECITALS

A. On April 17, 2014, LAVWMA and Weir entered in an Agreement wherein Weir agreed to serve as General Manager of LAVWMA and oversee all management and administration of LAVWMA's operations according to the terms established in the Agreement; and

B. The Board amended the Agreement on April 20, 2016 ("First Amendment") to extend the term for an additional two years, making the termination date April 17, 2018.

C. The Board amended the Agreement on February 21, 2018 ("Second Amendment") to extent the term for an additional three years, making the termination date April 17, 2021.

D. The Parties wish to extend the term of the Agreement.

OPERATIVE PROVISIONS

NOW, THEREFORE, in consideration of the promises made and recited herein, the parties do hereby enter into this Third Amendment which modifies and amends the Agreement as follows:

1. **Amendment.** Section 7(a) of the Agreement, entitled "Term" is hereby amended in its entirety to read as follows:

> A. Term. This Agreement became effective as of the April 17, 2014 and had a two-year term. The Board extended the term for an additional two (2) years via the First Amendment and an additional three (3) years via the Second Amendment. Per the Third Amendment, this Agreement shall continue in effect for an additional three (3) years, until April 17, 2024, unless sooner terminated by either of the Parties. In the event of termination, neither Party shall have any further obligations under this Agreement, other than those obligations which by their terms survive expiration or termination of this Agreement. This Agreement may be extended for additional terms of up to three (3) years by mutual consent of the Parties.

2. GENERAL PROVISIONS.

2.1 **Remainder Unchanged**. Except as specifically modified and amended in this Third Amendment, the Agreement remains in full force and effect and binding upon the parties.

2.2 **Integration**. This Third Amendment consists of pages 1 through 2 inclusive, which constitute the entire understanding and agreement of the parties and supersedes all negotiations or previous agreements between the parties with respect to all or any part of the transaction discussed in this Third Amendment.

2.3 **Effective Date**. Upon full execution, this Third Amendment shall be effective as of April 17, 2021.

2.4 **Applicable Law**. The laws of the State of California shall govern the interpretation and enforcement of this Third Amendment.

2.5 **References**. All references to the Agreement include all their respective terms and provisions. All defined terms utilized in this Third Amendment have the same meaning as provided in the Agreement, unless expressly stated to the contrary in this Third Amendment.

IN WITNESS WHEREOF, the parties hereto have executed this Third Amendment to the Agreement on the date and year first written above.

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY

By:_____ Date_____
Bob Woerner, Chair

CHARLES V. WEIR, dba WEIR TECHNICAL SERVICES

By:_____ Date_____
Charles V. Weir

Approved as to Form

By:_____
Alexandra M. Barnhill, General Counsel