

**LAS VIRGENES - TRIUNFO
JOINT POWERS AUTHORITY
AGENDA**

4232 Las Virgenes Road, Calabasas, CA 91302

May 4, 2020, 5:00 PM

Public Participation for Meetings of Las Virgenes - Triunfo Joint Powers Authority in Response to COVID-19

On March 4, 2020, Governor Newsom proclaimed a State of Emergency in California as a result of the threat of COVID-19. On March 17, 2020, Governor Newsom issued Executive Order N-29-20 (superseding the Brown Act-related provisions of Executive Order N-25-20 issued on March 12, 2020), which allows a local legislative body to hold public meetings via teleconferencing and to make public meetings accessible telephonically or otherwise electronically to all members of the public seeking to observe and to address the local legislative body. Pursuant to Executive Order N-29-20, please be advised that members of the Las Virgenes - Triunfo Joint Powers Authority will participate in meetings telephonically.

PUBLIC PARTICIPATION: Pursuant to Executive N-29-20 and given the current health concerns, members of the public can access meetings live on-line, with audio and limited video, at www.LVMWD.com/JPALiveStream. In addition, members of the public can submit comments electronically for consideration by sending them to www.LVMWD.com/JPALiveStream. To ensure distribution to the members of the Las Virgenes - Triunfo Joint Powers Authority prior to consideration of the agenda, please submit comments 24 hours prior to the day of the meeting. Those comments, as well as any comments received after 5:00 P.M., will be distributed to the members of the Board of Directors and will be made part of the official public record of the meeting. Contact Josie Guzman, Executive Assistant/Clerk of the Board at (818) 251-2123 or jguzman@lvmwd.com with any questions.

ACCESSIBILITY: If requested, the agenda and backup materials will be made available in appropriate alternative formats to persons with a disability, as required by Section 202 of the Americans with Disabilities Act of 1990 (42 U.S.C. Sec. 12132), and the federal rules and regulations adopted in implementation thereof. Any person who requires a disability-related modification or accommodation, in order to observe and/or offer public comment may request such reasonable modification, accommodation, aid, or service by contacting the Executive Assistant/Clerk of the Board by telephone at (818) 251-2123 or via email to jguzman@lvmwd.com no later than 8:00 AM on the day of the scheduled meeting.

Members of the public wishing to address the Las Virgenes-Triunfo Joint Powers Authority (JPA) Board of Directors are advised that a statement of Public Comment Protocols is available from the Clerk of the Board. Prior to speaking, each speaker is asked to review these protocols, complete a speakers' card, and hand it to the Clerk of the Board. Speakers will be recognized in the order the cards are received.

The Public Comments agenda item is presented to allow the public to address the Board on matters not on the agenda. The public may also present comments on matters on the agenda; speakers for agendized items will be recognized at the time the item is called up for discussion.

Materials prepared by the JPA in connection with the subject matter on the agenda are available for public inspection at 4232 Las Virgenes Road, Calabasas, CA 91302. Materials prepared by the JPA and distributed to the Board during this meeting are available for public inspection at the meeting or as soon thereafter as possible. Materials presented to the Board by the public will be maintained as part of the records of these proceedings and are available upon request to the Clerk of the Board.

PLEDGE OF ALLEGIANCE

1 CALL TO ORDER AND ROLL CALL

2 APPROVAL OF AGENDA

3 PUBLIC COMMENTS

Members of the public may now address the Board of Directors **ON MATTERS NOT APPEARING ON THE AGENDA**, but within the jurisdiction of the Board. No action shall be taken on any matter not appearing on the agenda unless authorized by Subdivision (b) of Government Code Section 54954.2

4 CONSENT CALENDAR

Matters listed under the Consent Calendar are considered to be routine, non-controversial and normally approved with one motion. If discussion is requested by a member of the Board on any Consent Calendar item, or if a member of the public wishes to comment on an item, that item will be removed from the Consent Calendar for separate action.

A Minutes: Regular Meeting of April 6, 2020 (Pg. 5)

Approve.

B Digester No. 2 Rehabilitation Project: Approval of Scope Change and Change Order (Pg. 10)

Authorize the Administering Agent/General Manager to execute Change in Scope No. 3 to Pacific Advanced Civil Engineering, Inc., in the amount of \$5,000, and Change Order No. 2 to GSE Construction, Inc., in the amount of \$2,975, for the Digester No. 2 Rehabilitation Project.

5 ILLUSTRATIVE AND/OR VERBAL PRESENTATION AGENDA ITEMS

A Review of Progress on Pure Water Demonstration Project (Pg. 14)

B Scheduling of Strategic Planning Workshop on Pure Water Project Las Virgenes-Triunfo (Pg. 25)

Provide staff with feedback on the timing of a JPA Board Strategic Planning Workshop on the Pure Water Project Las Virgenes-Triunfo.

C Fiscal Years 2020-22 Two-Year JPA Draft Budget (Pg. 27)

Review and provide feedback on the Fiscal Years 2020-22 Two-Year JPA Draft Budget.

6 ACTION ITEMS

A Rancho Las Virgenes Farm Sprayfields Operation and Maintenance: Contract Extension (Pg. 66)

Authorize the Administering Agent/General Manager to execute a six-month extension to the existing agreement with W. Litten Land Preparation, in an amount not to exceed \$125,000, for the on-going operation and maintenance of the Rancho Las Virgenes Farm Sprayfields.

B Pure Water Project Las Virgenes-Triunfo: Future Supply Actions Funding Program (Pg. 70)

Authorize the Administering Agent/General Manager to execute a professional services agreement with Carollo Engineers, Inc., in the amount of \$68,996, to administer a Future Supply Actions Funding Program grant from the Metropolitan Water District of Southern California for the Pure Water Demonstration Project and Tapia Water Reclamation Facility.

7 BOARD COMMENTS

8 ADMINISTERING AGENT/GENERAL MANAGER REPORT

9 FUTURE AGENDA ITEMS

10 INFORMATION ITEMS

A State and Federal Legislative Update

11 PUBLIC COMMENTS

Members of the public may now address the Board of Directors **ON MATTERS NOT APPEARING ON THE AGENDA**, but within the jurisdiction of the Board. No action shall be taken on any matter not appearing on the agenda unless authorized by Subdivision (b) of Government Code Section 54954.2

12 CLOSED SESSION

13 ADJOURNMENT

Pursuant to Section 202 of the Americans with Disabilities Act of 1990 (42 U.S.C. Sec. 12132), and applicable federal rules and regulations, requests for a disability-related modification or accommodation, including auxiliary aids or

services, in order to attend or participate in a meeting, should be made to the Executive Assistant/Clerk of the Board in advance of the meeting to ensure availability of the requested service or accommodation. Notices, agendas, and public documents related to the Board meetings can be made available in appropriate alternative format upon request.

**LAS VIRGENES – TRIUNFO
JOINT POWERS AUTHORITY
MINUTES
REGULAR MEETING**

5:00 PM

April 6, 2020

PLEDGE OF ALLEGIANCE

The Pledge of Allegiance to the Flag was led by Jane Nye.

1. CALL TO ORDER AND ROLL CALL

The meeting was called to order at **5:00 p.m.** by Chair Lewitt via teleconference in the Board Room at Las Virgenes Municipal Water District headquarters at 4232 Las Virgenes Road, Calabasas, CA 91302. The meeting was conducted via teleconference pursuant to the provisions of the Governor’s Executive Order, N-29-20, which suspended certain requirements of the Ralph M. Brown Act to support social distancing guidelines associated with response to the coronavirus (COVID-19) outbreak. Josie Guzman, Clerk of the Board, conducted the roll call.

Present: Directors Caspary, Lewitt, Lo-Hill, Nye, Orkney, Polan, Renger, Shapiro, Tjulander, and Wall
Absent: None

2. APPROVAL OF AGENDA

Director Renger moved to approve the agenda. Motion seconded by Director Shapiro. Motion carried unanimously by roll call vote.

3. PUBLIC COMMENTS

None.

4. CONSENT CALENDAR**A Minutes: Regular Meeting of March 2, 2020: Approve**

Director Shapiro moved to approve the Consent Calendar. Motion seconded by Director Polan. Motion carried unanimously by roll call vote.

5. ILLUSTRATIVE AND/OR VERBAL PRESENTATION AGENDA ITEMS

A Pure Water Project Las Virgenes-Triunfo: Update

Joe McDermott, Director of Engineering and External Affairs, reported that construction of the Pure Water Demonstration Project was nearly completed. He stated that the contractor was working on completing outstanding items so that the equipment may be ready for initial start-up and testing. He also stated that once the contractor has completed construction, Astound Group would begin to install the visitor experience elements. He noted that the mural was completed and ready to be installed. He reported that work on the electrical connection was delayed, which could cause a delay to the soft opening. He noted that the community-wide survey scheduled to be done in collaboration with Pepperdine University was placed on hold. He reported that the Request for Proposals for Owner's Advisor/Program Management would be issued before the end of the month. He responded to a question regarding the availability of photographs of the Pure Water Demonstration Project by stating that he would email photographs to the Board.

6. ACTION ITEMS

A Las Virgenes – Triunfo Joint Powers Authority Conflict of Interest Code: Amendment

Pass, approve, and adopt proposed Resolution No. 12, adopting the Conflict of Interest Code of the Las Virgenes –Triunfo Joint Powers Authority.

Administering Agent/General Manager David Pedersen presented the report.

Director Tjulander moved to approve Item 6A. Motion seconded by Director Lo-Hill. Motion carried unanimously by roll call vote.

B Biosolids Transportation and Disposal: Amendment to Agreement

Authorize the Administering Agent/General Manager to amend the agreement with New Earth USA, in the amount of \$194,600, for seven additional months of biosolids transportation and disposal services.

Administering Agent/General Manager David Pedersen presented the report. He noted that composting operations should begin by the end of April at partial capacity, and compost would be available to the public in June or July.

Director Orkney moved to approve Item 6B. Motion seconded by Director Renger.

Administering Agent/General Manager David Pedersen responded to a question regarding reimbursement from the insurance carrier or the Federal Emergency Management Agency by stating that only the cost for additional work subsequent to the Woolsey Fire would be reimbursed.

Motion carried unanimously by roll call vote.

7. BOARD COMMENTS

None.

8. ADMINISTERING AGENT/GENERAL MANAGER REPORT

Administering Agent/General Manager David Pedersen provided an overview of actions taken in response to the COVID-19 outbreak, including implementing alternate work schedules and telecommuting for employees, arranging for field staff to work staggered shifts and work independently, and practicing social distancing. He reported that no employees were infected with COVID-19, and three employees were on emergency paid leave due to underlying health conditions or potentially being exposed to the virus. He also reported that employees were becoming accustomed to the use of Zoom teleconference meetings, management staff continued to participate in daily Emergency Operations Center meetings, and employees started to wear face coverings in common areas. He also reported that staff continued to respond to customers' phone calls; staff was testing the use of Microsoft Teams; a staff resources webpage was developed; customer contacts and questions were being tracked; late fees were being waived; and no water shutoffs were taking place. He noted that the JPA Board previously canceled its May 4, 2020 regular meeting due to a conflict with the Association of California Water Agencies (ACWA) conference. He recommended that the Board consider placing this meeting date back on the calendar since the conference was canceled. The Board agreed. He also provided an update regarding reimbursement of costs related to the Woolsey Fire by stating that the District had received \$3.68 million out of the \$6.5 million expected reimbursement.

9. FUTURE AGENDA ITEMS

None.

10. INFORMATION ITEMS

A State and Federal Legislative Update

B Bioassessment Monitoring Report: Approval of Purchase Order

11. PUBLIC COMMENTS

None.

12. CLOSED SESSION

A Conference with Legal Counsel – Existing Litigation (Government Code Section 54956.9(a)):

Zusser Company, Inc. v. Las Virgenes Municipal Water District

The Board recessed to Closed Session at **5:35 p.m.** and reconvened to Open Session at **5:57 a.m.**

Keith Lemieux, District Counsel, announced that the Board received a report in Closed Session and there was no reportable action.

Chair Lewitt lost connection to the teleconference at 5:59 p.m.

13. ADJOURNMENT

Seeing no further business to come before the Board, the meeting was duly adjourned at **5:59 p.m.** by Vice Chair Wall.

Jay Lewitt, Chair

ATTEST:

James Wall, Vice Chair

May 4, 2020 JPA Board Meeting

TO: JPA Board of Directors

FROM: Engineering and External Affairs

Subject : Digester No. 2 Rehabilitation Project: Approval of Scope Change and Change Order

SUMMARY:

On September 13, 2018, the JPA Board approved a professional services agreement with Pacific Advanced Civil Engineering, Inc. (PACE), in the amount of \$34,810, to prepare plans and specifications for the rehabilitation of Digester No. 2 at the Rancho Las Virgenes Composting Facility (Rancho). Two scope changes were approved for the contract to include engineering services during bidding and construction. Staff recommends approval of Change in Scope No. 3 for additional time and effort for services during construction. In addition, staff recommends approval of Change Order No. 2 for GSE Construction, Inc., to provide stainless steel couplings that were not specified as such in the bid documents.

RECOMMENDATION(S):

Authorize the Administering Agent/General Manager to execute Change in Scope No. 3 to Pacific Advanced Civil Engineering, Inc., in the amount of \$5,000, and Change Order No. 2 to GSE Construction, Inc., in the amount of \$2,975, for the Digester No. 2 Rehabilitation Project.

FISCAL IMPACT:

No

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

The total cost of this action is \$7,975. No additional appropriation is required at this time. Sufficient funding is available in the adopted Fiscal Year 2019-20 JPA Budget for work. The cost of the work is allocated 70.6% to LVMWD and 29.4% to Triunfo Water & Sanitation District.

DISCUSSION:

The Rancho Las Virgenes Composting Facility processes biosolids from the Tapia Water Reclamation Facility, producing high-quality compost that is available at no cost to the public. The facility has three digesters that treat the biosolids in preparation for dewatering and composting. Digester Nos. 1 and 2 were constructed in the early 1990s and have been in continuous service. In 2015, Digester No. 3 was constructed to provide redundancy and allow for Digester Nos. 1 and 2 to be temporarily taken out of service, one at a time, for maintenance and rehabilitation. Rehabilitation work for Digester No. 1 was completed in August 2018. The JPA Board approved the construction contract for rehabilitation of Digester No. 2 on December 9, 2020.

PACE Change in Scope No. 3:

On September 13, 2018, a proposal from PACE was administratively approved in the amount of \$34,810 for engineering design services. Support services during the bidding and construction phase were not included due to staff's familiarity with the scope of services for Digester No. 1, which was similar in scope to Digester No. 2. However, due to staff changes, additional scope was added to PACE's contract for engineering service during the bidding and construction phase. Change in Scope No. 1, in the amount of \$1,030, was for engineering support during the bidding phase, which was administratively approved. On December 9, 2020, the JPA Board approved Change In Scope No. 2 to PACE to include engineering support services during construction.

The engineering support services during construction, in the amount of \$20,790, included 129 hours for engineering services to review shop drawing submittals and minor requests for information (RFI). PACE's level of coordination and effort during the construction phase increased significantly from their original proposal. Coordination included the review of actuators that were included in Digester No. 2 project that were not part of Digester No. 1. Several resubmittals were needed due to partial information being provided and/or incorrect equipment being submitted, as well as extra coordination with the valve manufacturer. Change in Scope No. 3, in the amount of \$5,000, is recommended for an additional 40 hours to complete the remaining submittal and RFI reviews and responses needed for the project.

GSE Change Order No. 2:

Digester No. 2 was taken out of service for cleaning and interior inspection, which was completed on March 20, 2019. On December 9, 2019, the JPA Board awarded a construction contract to GSE Construction, Inc., in the amount of \$1,882,000, for the rehabilitation of Digester No. 2. The piping, fittings and couplings for the sludge gas line were intended to be stainless steel for improved longevity due to the corrosivity of the sludge gas. However, the plans and specifications did not specify that the couplings for the sludge gas were to be stainless steel.

Staff recommends authorizing the Administering Agent/General Manager to issue Change Order No. 2 to GSE Construction, in the amount of \$2,975 or 0.16% of the original contract amount, for stainless steel in lieu of ductile iron couplings proposed by the contractor. This change order will bring the cumulative cost of change orders for the project above 10% of the original contract amount, which requires Board approval. Change Order No. 1, which was approved on February 18, 2020, in the amount of \$188,100, was issued to the contractor to make the necessary biofilter repairs due to damages from the Woolsey Fire and to partially restore composting operations.

Prepared by: Mercedes Acevedo, E.I.T, Assistant Engineer

ATTACHMENTS:

Change in Scope No. 3



AUTHORIZATION FOR CHANGE ORDER

TO: <u>Las Virgenes Municipal Water District</u>	ATTN: <u>Mercedes Acevedo</u>
<u>4232 Las Virgenes Road</u>	DATE: <u>April 7, 2020</u>
<u>Calabasas, CA 91302</u>	PROJECT: <u>Digester 02 - B428</u>
	C.O. AUTHORIZATION #: <u>04</u>

In anticipation of construction shop drawing reviews being completed soon, PACE is requesting additional budget to specifically assist with construction RFIs, once installation / construction is underway.

Description of Services (Additional Construction Support Services):

The original intent of the hourly fee estimate provided under CO#2 for construction support services was that PACE would only play a minor role in the construction phase, based on similarities between Digester 1 and Digester 2; however, PACE's role has increased for construction support services, as summarized below:


- 1. Actuators:** New actuators were included as part of the Digester 2 project that were not a part of the Digester 1 project. The submittal review for these actuators required detailing for coordination with pump station space constraints, and resolving orientation concerns with the use of the District's preferred Beck actuators.
- 2. Valves:** PACE helped with providing extra coordination and review efforts for lead times versus project construction schedule for critical path valves, which also included assisting the District with participation in conference calls with the contractor, valve vendor, valve manufacturer, glass-lining company to clear up overall schedule concerns. New valves were also included as part of the Digester 2 project that were not a part of Digester 1 project, requiring additional submittal reviews and coordination.
- 3. Re-submittal Reviews:** There are several resubmittals based on partial info being provided, and incorrect equipment being submitted in some cases.

Task 40.3 – Construction Support Services

<u>Man-Hour Breakdown</u>		<u>Rate:</u>		<u>Hours:</u>	<u>Rate:</u>
Robert Murphy, P.E.	Sr. Project Engineer	\$185	x	8	\$1,480.00
Kyle Smith, E.I.T.	Design Engineer	\$130	x	25	\$3,250.00
Stacy McCamey	Project Coordinator	\$90	x	3	\$270.00
Task 40.3 Total:					\$5,000.00

Amount of Compensation:

This Request - Change Order # 04: \$5,000

Estimated By:  4/7/20
 Duong Do, PE - PACE Date

AGREED TO AND ACCEPTED BY:

By _____ Date _____
 Client Name Date

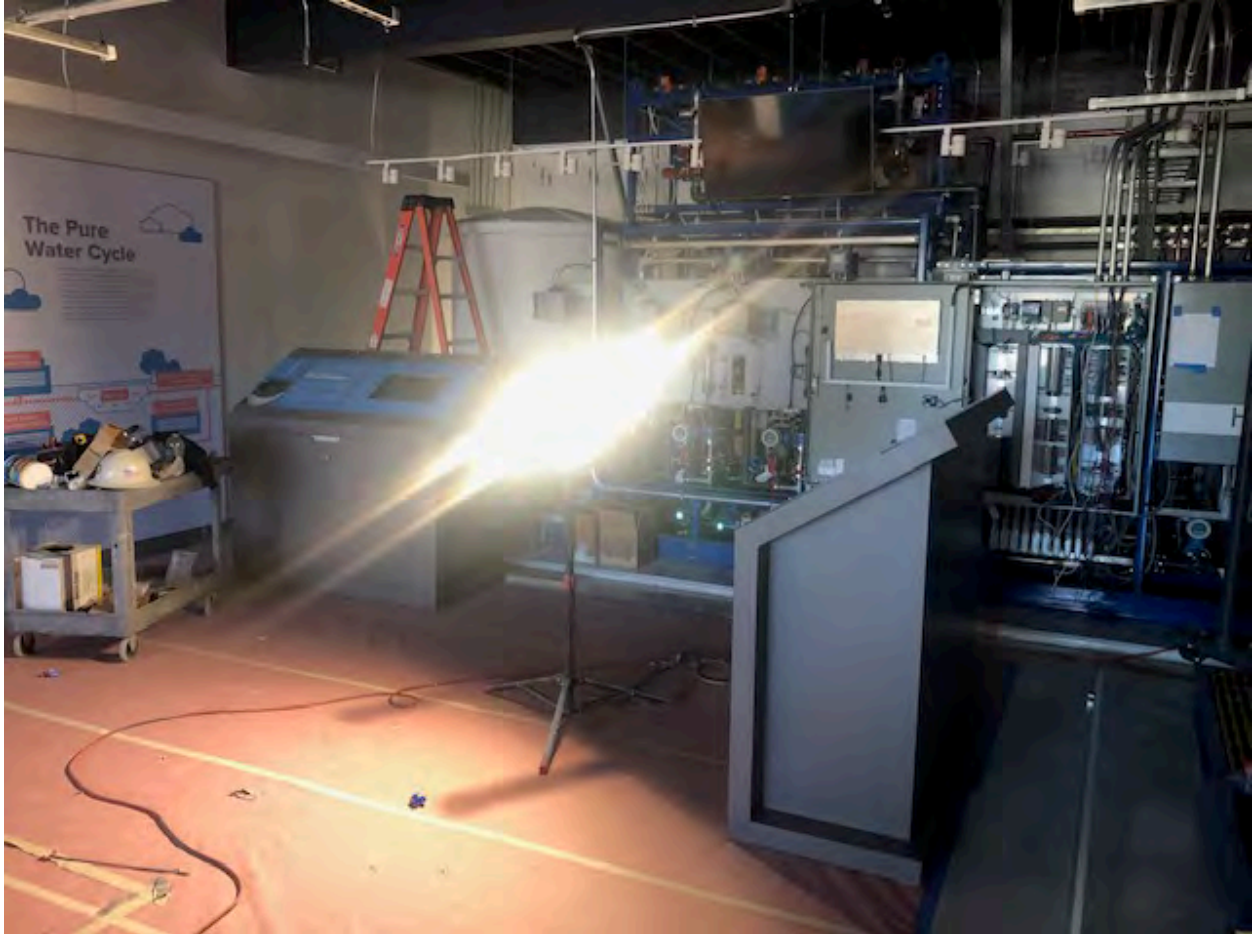


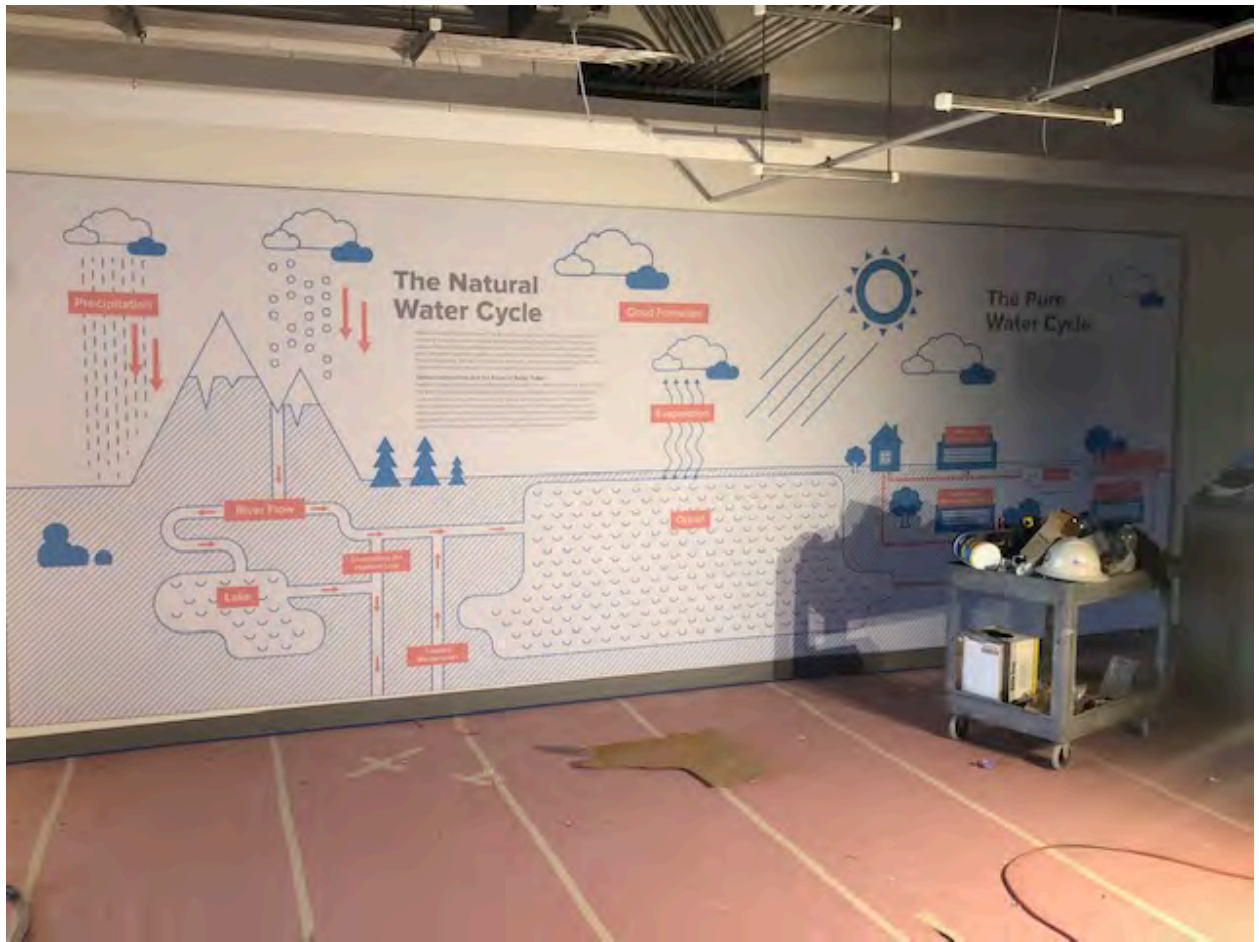




















May 4, 2020 JPA Board Meeting

TO: JPA Board of Directors

FROM: General Manager

Subject : Scheduling of Strategic Planning Workshop on Pure Water Project Las Virgenes-Triunfo

SUMMARY:

On August 1, 2016, the JPA Board selected Scenario No. 4, use of Las Virgenes Reservoir for indirect potable reuse, as the preferred alternative for the Recycled Water Seasonal Storage Basis of Design Report. The selected alternative was subsequently renamed the *Pure Water Project Las Virgenes-Triunfo*. Staff was also directed to report back to the Board on the next steps for implementation of the project. On September 6, 2016, staff reported on the next steps organized into six categories as summarized in the discussion section below. An additional category for institutional issues was subsequently added for a total of seven categories. In addition, the JPA Board held a preliminary workshop on potential institutional issues associated with the Pure Water Project Las Virgenes-Triunfo on October 5, 2016.

At each regular JPA Board meeting, staff has provided the Board with a brief update on the progress of the various items that comprise the next steps. However, it is apparent that a more comprehensive update is warranted on a periodic basis to provide the Board with a better understanding of the relationship between the various activities. On April 13, 2020, the LVMWD Board held a Strategic Planning Workshop that included an update on the institutional issues associated with the Pure Water Project Las Virgenes-Triunfo. At the meeting, the LVMWD Board expressed an interest in scheduling a similar meeting with the full JPA Board, including Triunfo Water & Sanitation District Board Members. The workshop would be intended to ensure that the JPA Member Agencies remain aligned on the Pure Water Project Las Virgenes-Triunfo.

Staff proposes to schedule a Strategic Planning Workshop for the JPA Board to discuss the Pure Water Project Las Virgenes-Triunfo and seeks feedback on potential dates for the workshop.

RECOMMENDATION(S):

Provide staff with feedback on the timing of a JPA Board Strategic Planning Workshop on the Pure Water Project Las Virgenes-Triunfo.

FISCAL IMPACT:

No

ITEM BUDGETED:

No

DISCUSSION:

Categories of Next Steps:

1. Funding and Financing
2. Advocacy
3. Technical Studies
4. Public Outreach
5. Demonstration Project
6. Environmental Review
7. Potential Institutional Issues

Prepared by: David W. Pedersen, P.E., Administering Agent/General Manager

May 4, 2020 JPA Board Meeting

TO: JPA Board of Directors

FROM: Finance & Administration

Subject : Fiscal Years 2020-22 Two-Year JPA Draft Budget

SUMMARY:

Staff prepares a biennial budget for the JPA. Following review of the draft budget, staff incorporates any recommended changes in a final version that is presented for approval. The JPA Board approves the budget for the first year and the budget plan for the second year. Prior to commencement of the second year of the budget, the JPA Board is presented with an update and any modifications recommended for the second year. The Fiscal Years 2020-22 Two-Year JPA Draft Budget represents the proposed budget for the next two fiscal years. Staff will present an overview of the key factors and changes that are anticipated to affect the two-year budget.

RECOMMENDATION(S):

Review and provide feedback on the Fiscal Years 2020-22 Two-Year JPA Draft Budget.

FISCAL IMPACT:

No

ITEM BUDGETED:

No

FINANCIAL IMPACT:

There is no financial impact associated with reviewing and providing feedback on the Fiscal Years 2020-22 Two-Year JPA Draft Budget.

DISCUSSION:

Staff prepared the first two-year budget for the JPA in 2016. The current draft version for Fiscal Years 2020-22 is the third biennial budget. One of the first steps in preparation of the Fiscal Years 2020-22 Two-Year Budget Plan is to review the significant budget factors and assumptions. The proposed budget plan includes:

- Flat wholesale recycled water sales for Fiscal Years 2020-22;
- Addition of the operational costs for the Pure Water Project Demonstration Project; and
- Implementation of adjustments to labor costs based on approved Memorandums of Understanding.

Potential Effects of Coronavirus (COVID-19) Pandemic:

Staff is closely monitoring the effects of the coronavirus (COVID-19) pandemic on the JPA's operations and working to anticipate potential future impacts. At this time, staff does not expect a significant impact from COVID-19 on sanitation operations because increased flows to the Tapia Water Reclamation Facility from residential customers have more than offset decreases from commercial customers.

With respect to financial impacts, staff observes that the effects of COVID-19 have been quicker and more pronounced for cities within the JPA's service area that rely on sales tax, transient occupancy tax (hotel) and other sources of revenue impacted by the Los Angeles County Safer at Home Order. Staff will monitor recycled water sales and be prepared to adjust operations to address any decrease sales caused by potential budget reductions or operational changes from cities and others recycled water customers.

Prepared by: Angela Saccareccia, Finance Manager

ATTACHMENTS:

Fiscal Years 2020-22 Two-Year JPA Draft Budget



Las Virgenes – Triunfo Joint Powers Authority

FY 2020-21
and
FY 2021-22
Draft Budget

May 4, 2020

**Las Virgenes - Triunfo
Joint Powers Authority
Operations Summary**

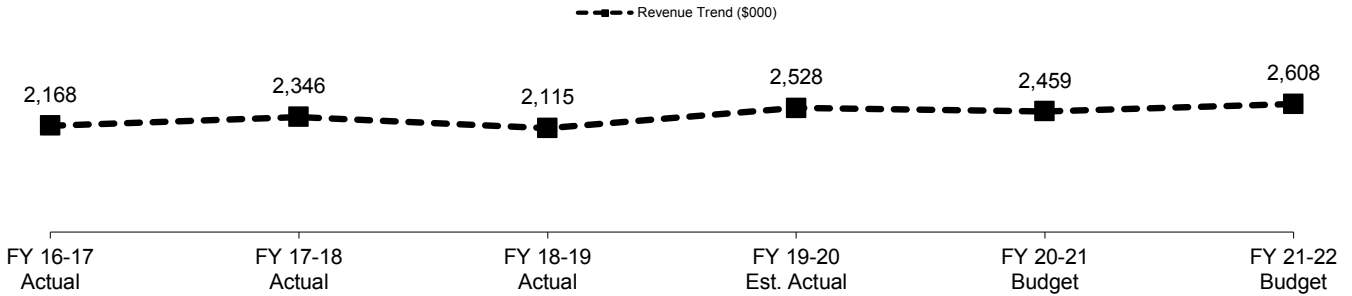
	FY 16-17 Actual	FY 17-18 Actual	FY 18-19 Actual	FY 19-20 Budget	FY 19-20 Est. Actual	FY 20-21 Budget	FY 21-22 Budget
OPERATING REVENUES							
4235 RW Sales - LVMWD	\$1,369,024	\$1,603,106	\$1,503,857	\$1,838,299	\$1,882,618	\$1,838,192	\$1,954,050
4240 RW Sales - TSD	688,676	678,150	564,870	849,097	579,991	540,397	573,984
4245 MWD Incentive - Local Projects	0	0	0	0	0	0	0
4505 Other Income from Operations	96,197	55,595	45,736	65,000	65,000	65,000	65,000
4510 Compost Sales	14,161	8,882	811	15,000	0	15,000	15,000
TOTAL OPERATING REVENUES	\$2,168,058	\$2,345,733	\$2,115,274	\$2,767,396	\$2,527,609	\$2,458,589	\$2,608,034
SOURCE OF SUPPLY							
5115 Purchased Water - Potable Suppl	34,124	0	0	0	30,020	0	0
OPERATIONS DIVISION EXPENSE							
5400 Labor	1,986,771	1,972,298	2,201,788	2,263,114	2,245,774	2,346,619	2,397,826
5405.1 Electricity	2,101,399	2,270,433	1,895,554	2,509,986	1,836,813	1,737,800	1,915,300
5405.2 Telephone	52,977	20,075	31,719	43,228	35,500	33,000	32,000
5405.3 Natural Gas	21,443	16,244	15,712	21,413	16,000	21,400	21,400
5405.4 Water	7,956	11,493	11,949	9,066	11,428	12,500	12,300
5410 Supplies/Material	72,756	80,218	81,596	79,648	73,430	80,950	80,950
5410.1 Fuel	26,208	20,065	17,805	29,298	12,000	30,050	30,100
5410.5 Ferric Chloride	42,204	37,853	35,505	54,456	49,000	60,000	60,000
5410.6 Defoamer/Deodorant	6,082	7,079	3,981	4,120	3,000	4,120	4,120
5410.7 Polymer	120,588	117,798	149,870	108,876	81,000	147,000	147,000
5410.8 Amendment	142,893	101,919	48,336	123,600	21,000	135,000	135,000
5410.9 Alum	6,864	6,917	11,127	9,489	14,000	12,000	12,000
5410.10 Sodium Hypochlorite	212,248	184,319	297,177	208,274	225,000	230,000	230,000
5410.11 Sodium Bisulfite	77,498	98,766	91,143	115,936	91,000	115,936	115,936
5410.13 Aqua Ammonia	31,675	27,657	30,616	31,669	19,000	31,699	31,699
5415 Outside Services	57,168	58,373	335,694	58,400	288,525	555,650	246,650
5417 Odor Control	143,703	141,619	75,610	200,850	57,000	185,000	185,000
5420 Permits and Fee	193,347	174,028	182,576	191,295	205,031	220,100	220,200
5425 Consulting Services	0	96,515	46,286	4,302	37,000	180,000	90,000
5430 Capital Outlay	23,994	0	98,630	65,000	88,000	155,000	155,000
Sub-total	\$5,327,774	\$5,443,669	\$5,662,674	\$6,132,020	\$5,409,501	\$6,293,824	\$6,122,481
MAINTENANCE DIVISION EXPENSE							
5500 Labor	1,211,888	1,228,843	1,231,514	1,400,989	1,215,833	1,252,844	1,274,732
5510 Supplies/Material	396,570	380,410	431,805	483,500	278,250	294,000	304,000
5515 Outside Services	437,628	350,741	362,045	341,450	351,700	374,450	437,450
5518 Building Maintenance	88,631	105,941	130,815	116,000	247,677	282,177	283,645
5520 Permits and Fee	580	1,211	0	500	0	500	500
5525 Consulting Services	2,252	0	0	0	0	0	0
5530 Capital Outlay	45,774	161,552	26,094	95,000	88,000	65,000	70,000
Sub-total	\$2,183,323	\$2,228,698	\$2,182,273	\$2,437,439	\$2,181,460	\$2,268,971	\$2,370,327
INVENTORY EXPENSES							
5536 Inventory Adjustment	(2,393)	6,134	153,421	4,840	2,200	5,000	5,000
Sub-total	(\$2,393)	\$6,134	\$153,421	\$4,840	\$2,200	\$5,000	\$5,000
PUBLIC INFORMATION							
6602 School Education Program	22,535	14,394	2,586	20,971	814	1,105	1,152
6604 Public Education Program	70,275	45,330	29,554	67,722	23,627	20,069	20,842
6606 Community Group Outreach	1,182	2,911	0	6,028	0	8,000	8,000
6608 Intergovernmental Coordination	4,146	1,098	411	5,298	0	5,000	5,000
Sub-total	\$98,138	\$63,733	\$32,551	\$100,019	\$24,441	\$34,174	\$34,994
RESOURCE CONSERVATION							
6788 District Sprayfield	251,449	283,186	314,316	321,779	250,000	270,000	275,000
6789 005 Discharge	277	387	10,917	400	400	400	400
6785 Watershed Programs	60,773	17,097	1,800	46,594	14,000	20,000	20,000
Sub-total	\$312,499	\$300,670	\$327,033	\$368,773	\$264,400	\$290,400	\$295,400

**Las Virgenes - Triunfo
Joint Powers Authority
Operations Summary**

	FY 16-17 Actual	FY 17-18 Actual	FY 18-19 Actual	FY 19-20 Budget	FY 19-20 Est. Actual	FY 20-21 Budget	FY 21-22 Budget
SPECIALTY EXPENSES							
5700 SCADA Services	49,624	38,646	56,005	114,310	51,916	62,104	62,786
5710.2 Technical Services	0	0	1,313	646	12,287	13,763	16,164
5712 Compost Sales/Use Tax	2,922	3,246	2,989	4,000	4,000	4,000	4,000
5715.2 Other Lab Services	141,224	154,291	158,532	156,855	145,000	184,000	184,000
5715.3 Tapia Lab Sampling	125,705	130,352	131,436	151,302	123,246	187,269	193,001
7202 Allocated Lab Expense	378,015	399,644	441,847	449,138	521,277	529,280	531,736
Sub-total	\$697,490	\$726,179	\$792,122	\$876,251	\$857,726	\$980,416	\$991,687
ADMINISTRATIVE EXPENSES							
6872 Litigation/Outside Services*	83,990	49,115	206,946	25,000	135,000	0	0
6874 Litigation/District Costs*	0	0	0	0	0	0	0
6516 Other Professional Services	95,007	167,843	266,417	137,000	156,600	156,600	156,600
6517 Audit Fees	3,395	3,395	3,377	3,700	6,000	6,000	6,000
7110 Travel/Misc Staff Expense	248	0	0	0	0	0	0
7135.1 Property Insurance**	56,955	69,614	79,858	59,779	80,859	0	0
7135.4 Earthquake Insurance**	91,466	110,557	117,389	95,559	92,073	0	0
7145 Claims Paid	122,451	21,000	0	0	0	0	0
7153 TSD Staff Services	0	0	0	5,000	5,500	6,000	6,000
7155 Other Expense	54,029	9,000	0	0	0	0	0
6260 Rental Charge - Facility Repl	371,357	351,674	377,618	363,316	355,453	363,316	363,316
6350 Allocated Insurance**	0	0	0	0	0	175,131	183,888
6351 Allocated Legal Services*	0	0	0	0	0	135,000	135,000
7203 Allocated Building Maint	83,651	89,824	153,010	88,804	92,424	115,392	96,642
7225 Allocated Support Services	3,528,201	4,099,146	3,906,942	4,713,915	4,691,661	4,668,773	4,716,692
7226 Allocated Operations Services	1,613,325	1,938,958	1,728,380	2,169,190	2,286,559	2,075,114	2,097,007
Sub-total	\$6,104,075	\$6,910,126	\$6,839,937	\$7,661,264	\$7,902,128	\$7,701,327	\$7,761,145
TOTAL EXPENSES	\$14,755,030	\$15,679,209	\$15,990,011	\$17,580,606	\$16,671,876	\$17,574,112	\$17,581,034
NET OPERATING EXPENSE	\$12,586,972	\$13,333,476	\$13,874,737	\$14,813,210	\$14,144,267	\$15,115,522	\$14,973,000

**Las Virgenes - Triunfo
Joint Powers Authority
Operating Revenues**

	FY 16-17 Actual	FY 17-18 Actual	FY 18-19 Actual	FY 19-20 Budget	FY 19-20 Est. Actual	FY 20-21 Budget	FY 21-22 Budget
OPERATING REVENUES							
4235 RW Sales - LVMWD	\$1,369,024	\$1,603,106	\$1,503,857	\$1,838,299	\$1,882,618	\$1,838,192	\$1,954,050
4240 RW Sales - TSD	688,676	678,150	564,870	849,097	579,991	540,397	573,984
4505 Other Income from Operations	96,197	55,595	45,736	65,000	65,000	65,000	65,000
4510 Compost Sales	14,161	8,882	811	15,000	0	15,000	15,000
TOTAL OPERATING REVENUES	\$2,168,058	\$2,345,733	\$2,115,274	\$2,767,396	\$2,527,609	\$2,458,589	\$2,608,034



RW WHOLESALE RATE COMPUTATIONS

FY 2020-21 Budgeted Costs	Total Cost	Base Cost	Add'l Pumping	East-West Cost
Pump Stations	1,117,771	564,271	553,500	
Reservoirs	75,169	75,169		
System Operations	18,020	18,020		
Distribution	109,056	109,056		
RW Operations	<u>1,320,016</u>			
RW Ops/JPA Ops	7.9%			
Total JPA Admin	1,046,346			
RW Administration	82,766	82,766		
subtotal: Operations & Admin	<u>1,402,782</u>	<u>849,282</u>		
Depreciation FY18-19	975,816	975,816	-	
Total Cost	\$ 2,378,598	\$ 1,825,098	\$ 553,500	

Costs per Acre Foot	\$ 326.32	\$ 103.59	\$ 429.91
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FY 2020-21 Estimated Deliveries

	Acre Feet	Rate	
LV Valley	250	\$ 326.32 /AF	\$ 81,580.00
LVMWD East	1,856	\$ 429.91 /AF	\$ 797,912.96
LVMWD West	2,230	\$ 429.91 /AF	\$ 958,699.30
Total LVMWD	<u>4,336</u>		<u>\$ 1,838,192.26</u>
TWSD	1,257	\$ 429.91 /AF	\$ 540,396.87
	<u>5,593</u>		<u>\$ 2,378,589.13</u>

RW WHOLESALE RATE COMPUTATIONS

FY 2021-22 Budgeted Costs	Total Cost	Base Cost	Add'l Pumping	East-West Cost
Pump Stations	1,249,507	696,007	553,500	
Reservoirs	73,395	73,395		
System Operations	19,836	19,836		
Distribution	118,842	118,842		
RW Operations	<u>1,461,580</u>			
RW Ops/JPA Ops	8.7%			
Total JPA Admin	1,037,019			
RW Administration	90,635	90,635		
subtotal:Operations & Admin	<u>1,552,215</u>	<u>998,715</u>		
Depreciation FY18-19	975,816	975,816	-	
Total Cost	\$ 2,528,031	\$ 1,974,531	\$ 553,500	

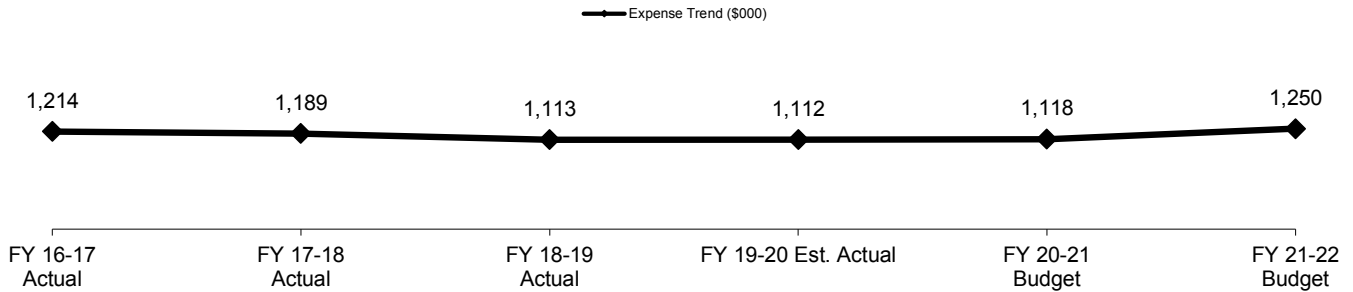
Costs per Acre Foot	\$ 353.04	\$ 103.59	\$ 456.63
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FY 2020-21 Estimated Deliveries

	Acre Feet	Rate	
LV Valley	250	\$ 353.04 /AF	\$ 88,260.00
LVMWD East	1,856	\$ 456.63 /AF	\$ 847,505.28
LVMWD West	2,230	\$ 456.63 /AF	\$ 1,018,284.90
Total LVMWD	<u>4,336</u>		<u>\$ 1,954,050.18</u>
TWSD	1,257	\$ 456.63 /AF	\$ 573,983.91
	<u>5,593</u>		<u>\$ 2,528,034.09</u>

**Las Virgenes - Triunfo
Joint Powers Authority
RW Pump Stations - 751100**

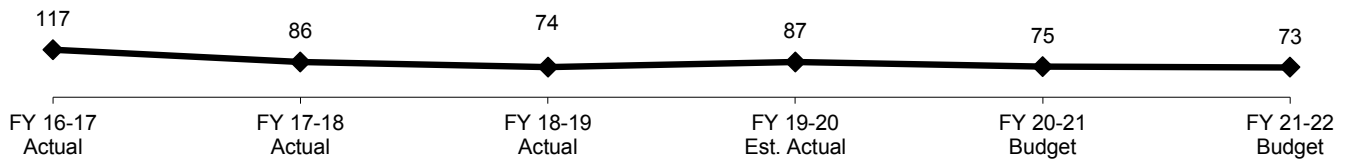
	FY 16-17 Actual	FY 17-18 Actual	FY 18-19 Actual	FY 19-20 Budget	FY 19-20 Est. Actual	FY 20-21 Budget	FY 21-22 Budget
OPERATIONS DIVISION EXPENSE							
5400 Labor	\$32,759	\$33,838	\$26,909	\$38,222	\$24,037	\$30,763	\$28,287
5405.1 Electricity	975,191	1,039,925	848,108	1,167,000	874,000	800,000	900,000
5405.2 Telephone	0	53	0	0	0	0	0
5405.4 Water	161	417	265	0	150	200	0
5410 Supplies/Material	20,775	23,848	7,031	14,000	13,500	14,000	14,000
5415 Outside Services	4,923	985	600	0	3,025	8,000	8,000
5430 Capital Outlay	0	0	0	15,000	0	15,000	15,000
Sub-total	\$1,033,809	\$1,099,066	\$882,913	\$1,234,222	\$914,712	\$867,963	\$965,287
MAINTENANCE DIVISION EXPENSE							
5500 Labor	32,937	5,849	66,279	28,434	59,476	52,924	55,271
5510 Supplies/Material	45,414	11,600	15,822	7,000	4,500	7,000	7,000
5515 Outside Services	10,973	508	20,718	1,250	750	1,250	34,250
Sub-total	\$89,324	\$17,957	\$102,819	\$36,684	\$64,726	\$61,174	\$96,521
ADMINISTRATIVE EXPENSES							
7225 Allocated Support Services	62,378	48,561	87,263	74,106	90,894	119,660	119,067
7226 Allocated Operations Services	28,523	23,118	39,584	34,102	41,826	68,974	68,632
Sub-total	\$90,901	\$71,679	\$126,847	\$108,208	\$132,720	\$188,634	\$187,699
TOTAL EXPENSES	\$1,214,034	\$1,188,702	\$1,112,579	\$1,379,114	\$1,112,158	\$1,117,771	\$1,249,507



**Las Virgenes - Triunfo
Joint Powers Authority
RW Tanks, Reservoirs and Wells - 751200**

	FY 16-17 Actual	FY 17-18 Actual	FY 18-19 Actual	FY 19-20 Budget	FY 19-20 Est. Actual	FY 20-21 Budget	FY 21-22 Budget
SOURCE OF SUPPLY							
5115 Purchased Water - Potable Suppl	\$34,124	\$0	\$0	\$0	30,020	\$0	\$0
OPERATIONS DIVISION EXPENSE							
5400 Labor	10,863	11,915	8,202	17,715	5,975	7,982	7,183
5405.1 Electricity	16,025	15,038	15,426	18,000	14,700	16,000	16,000
5405.2 Telephone	1,343	855	0	1,000	1,000	1,000	0
5405.4 Water	133	174	265	0	278	300	300
5410 Supplies/Material	1,352	2,412	523	2,500	1,600	2,500	2,500
5415 Outside Services	23,500	19,656	28,681	25,000	19,500	25,000	25,000
5420 Permits and Fee	0	900	0	0	100	0	100
Sub-total	\$53,216	\$50,950	\$53,097	\$64,215	\$43,153	\$52,782	\$51,083
MAINTENANCE DIVISION EXPENSE							
5500 Labor	5,081	12,357	1,057	14,598	2,000	6,000	6,000
5510 Supplies/Material	18	0	59	0	0	0	0
5515 Outside Services	1,155	1,073	4,617	1,200	950	1,200	1,200
Sub-total	\$6,254	\$13,430	\$5,733	\$15,798	\$2,950	\$7,200	\$7,200
ADMINISTRATIVE EXPENSES							
7225 Allocated Support Services	16,195	14,985	11,302	36,419	7,318	9,634	9,586
7226 Allocated Operations Services	7,405	7,132	3,771	16,759	3,368	5,553	5,526
Sub-total	\$23,600	\$22,117	\$15,073	\$53,178	\$10,686	\$15,187	\$15,112
TOTAL EXPENSES	\$117,194	\$86,497	\$73,903	\$133,191	\$86,809	\$75,169	\$73,395

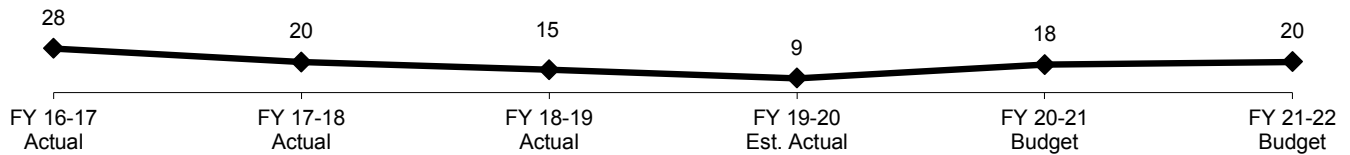
Expense Trend (\$000)



**Las Virgenes - Triunfo
Joint Powers Authority
RW System Operations - 751300**

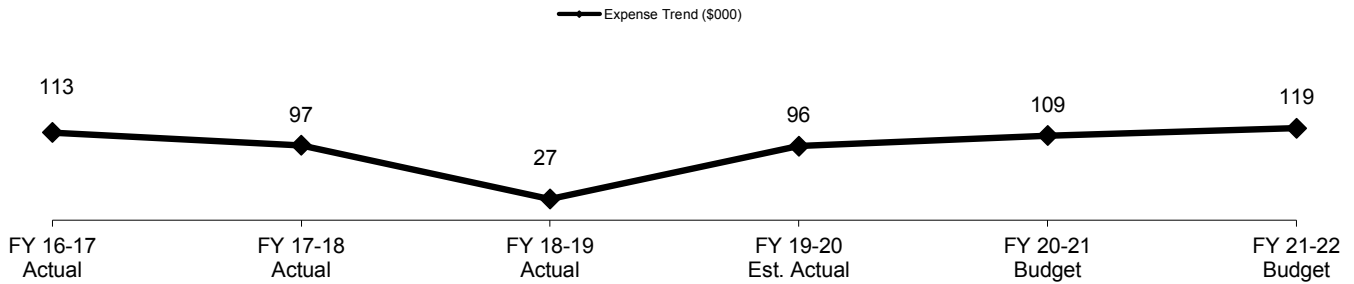
	FY 16-17 Actual	FY 17-18 Actual	FY 18-19 Actual	FY 19-20 Budget	FY 19-20 Est. Actual	FY 20-21 Budget	FY 21-22 Budget
OPERATIONS DIVISION EXPENSE							
5400 Labor	\$11,093	\$6,479	\$6,550	\$15,044	\$6,200	\$6,000	\$7,000
5420 Permits and Fee	88	88	88	100	88	100	100
Sub-total	\$11,181	\$6,567	\$6,638	\$15,144	\$6,288	\$6,100	\$7,100
MAINTENANCE DIVISION EXPENSE							
5500 Labor	291	212	0	261	851	784	803
5510 Supplies/Material	0	10	0	1,000	500	8,000	8,000
Sub-total	\$291	\$222	\$0	\$1,261	\$1,351	\$8,784	\$8,803
SPECIALTY EXPENSES							
5700 SCADA Services	0	192	0	3,238	0	1,000	1,000
5710.2 Technical Services	0	0	0	0	0	0	803
Sub-total	\$0	\$192	\$0	\$3,238	\$0	\$1,000	\$1,803
ADMINISTRATIVE EXPENSES							
7225 Allocated Support Services	11,601	8,547	5,563	19,141	1,031	1,355	1,351
7226 Allocated Operations Services	5,304	4,071	2,523	8,808	475	781	779
Sub-total	\$16,905	\$12,618	\$8,086	\$27,949	\$1,506	\$2,136	\$2,130
TOTAL EXPENSES	\$28,377	\$19,599	\$14,724	\$47,592	\$9,145	\$18,020	\$19,836

Expense Trend (\$000)



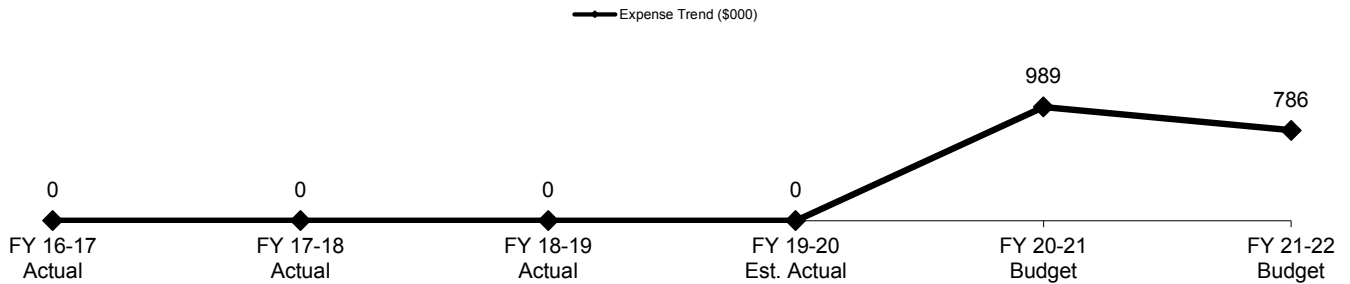
**Las Virgenes - Triunfo
Joint Powers Authority
RW Distribution System - 751700**

	FY 16-17 Actual	FY 17-18 Actual	FY 18-19 Actual	FY 19-20 Budget	FY 19-20 Est. Actual	FY 20-21 Budget	FY 21-22 Budget
OPERATIONS DIVISION EXPENSE							
5400 Labor	\$484	\$1,803	\$1,433	\$1,324	\$1,936	\$2,586	\$2,327
5410 Supplies/Material	60	945	0	500	100	500	500
Sub-total	\$544	\$2,748	\$1,433	\$1,824	\$2,036	\$3,086	\$12,827
MAINTENANCE DIVISION EXPENSE							
5500 Labor	29,625	17,700	6,793	26,724	7,637	8,087	8,250
5510 Supplies/Material	5,689	3,262	2,070	4,000	1,900	8,000	8,000
5515 Outside Services	31,469	40,614	4,688	20,000	67,000	65,000	65,000
5520 Permits and Fee	580	1,211	0	500	0	500	500
Sub-total	\$67,363	\$62,787	\$13,551	\$51,224	\$76,537	\$81,587	\$81,750
ADMINISTRATIVE EXPENSES							
7225 Allocated Support Services	30,934	21,063	8,431	32,984	11,750	15,467	15,392
7226 Allocated Operations Services	14,143	10,027	3,825	15,176	5,407	8,916	8,872
Sub-total	\$45,077	\$31,090	\$12,256	\$48,160	\$17,157	\$24,383	\$24,265
TOTAL EXPENSES	\$112,984	\$96,625	\$27,240	\$101,208	\$95,730	\$109,056	\$118,842



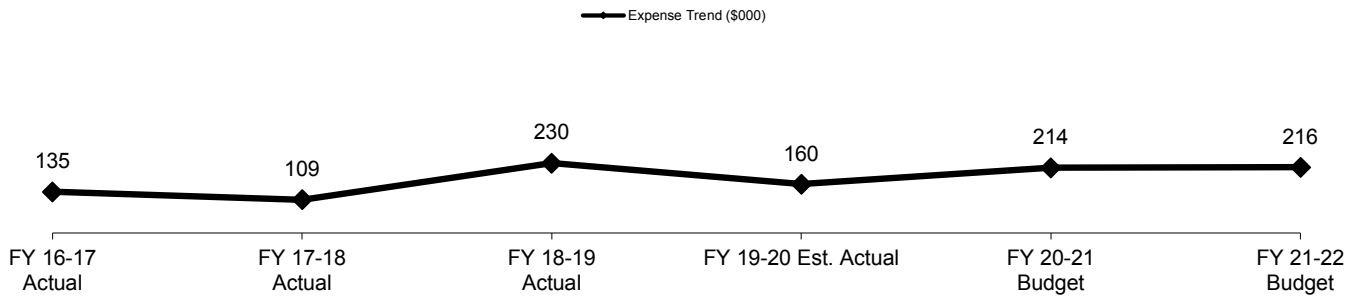
**Las Virgenes - Triunfo
Joint Powers Authority
Pure Water Demonstration Project- 751750**

	FY 16-17 Actual	FY 17-18 Actual	FY 18-19 Actual	FY 19-20 Budget	FY 19-20 Est. Actual	FY 20-21 Budget	FY 21-22 Budget
OPERATIONS DIVISION EXPENSE							
5400 Labor	\$0	\$0	\$0	\$0	\$0	\$79,400	\$124,000
5405.1 Electricity	0	0	0	0	0	39,000	39,000
5410.1 Fuel	0	0	0	0	0	5,100	5,100
5415 Outside Services	0	0	0	0	0	370,000	50,000
5425 Consulting Services	0	0	0	0	0	50,000	50,000
Sub-total	\$0	\$0	\$0	\$0	\$0	\$543,500	\$268,100
MAINTENANCE DIVISION EXPENSE							
5500 Labor	0	0	0	0	0	75,000	75,000
5510 Supplies/Material	0	0	0	0	0	10,000	10,000
5515 Outside Services	0	0	0	0	0	20,000	20,000
5518 Building Maintenance	0	0	0	0	0	20,000	20,000
Sub-total	\$0	\$0	\$0	\$0	\$0	\$125,000	\$125,000
SPECIALTY EXPENSES							
5715.2 Other Lab Services	0	0	0	0	0	30,000	30,000
5715.3 Tapia Lab Sampling	0	0	0	0	0	10,000	10,000
Sub-total	\$0	\$0	\$0	\$0	\$0	\$40,000	\$40,000
ADMINISTRATIVE EXPENSES							
7225 Allocated Support Services	0	0	0	0	0	192,390	241,670
7226 Allocated Operations Services	0	0	0	0	0	88,532	111,208
Sub-total	\$0	\$0	\$0	\$0	\$0	\$280,922	\$352,878
TOTAL EXPENSES	\$0	\$0	\$0	\$0	\$0	\$989,422	\$785,978



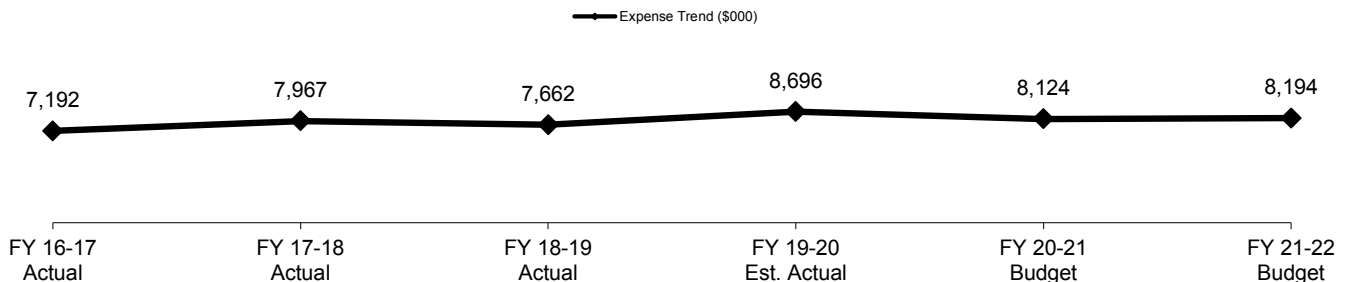
**Las Virgenes - Triunfo
Joint Powers Authority
Sewers - 751800**

	FY 16-17 Actual	FY 17-18 Actual	FY 18-19 Actual	FY 19-20 Budget	FY 19-20 Est. Actual	FY 20-21 Budget	FY 21-22 Budget
OPERATIONS DIVISION EXPENSE							
5400 Labor	\$535	\$0	\$2,787	\$227	\$3,488	\$3,888	\$4,029
5405.1 Electricity	293	295	254	350	113	300	300
5405.4 Water	0	0	0	200	0	0	0
5420 Permits and Fee	472	472	472	472	472	8,000	8,000
Sub-total	\$1,300	\$767	\$3,513	\$1,249	\$4,303	\$12,188	\$12,329
MAINTENANCE DIVISION EXPENSE							
5500 Labor	41,066	31,495	55,165	41,873	43,442	45,375	47,438
5510 Supplies/Material	286	196	238	2,500	350	2,000	2,000
5515 Outside Services	30,230	27,192	80,804	30,000	24,000	30,000	30,000
Sub-total	\$71,582	\$58,883	\$136,207	\$74,373	\$67,792	\$77,375	\$79,438
SPECIALTY EXPENSES							
5710.2 Technical Services	0	0	1,313	0	1,789	2,004	2,237
5715.2 Other Laboratory Services	0	0	0	0	0	0	0
Sub-total	\$0	\$0	\$1,313	\$0	\$1,789	\$2,004	\$2,237
ADMINISTRATIVE EXPENSES							
7225 Allocated Support Services	42,533	33,401	61,043	49,566	59,052	77,743	77,352
7226 Allocated Operations Services	19,449	15,902	27,690	22,807	27,174	44,812	44,587
Sub-total	\$61,982	\$49,303	\$88,733	\$72,373	\$86,226	\$122,555	\$121,938
TOTAL EXPENSES	\$134,864	\$108,953	\$229,766	\$147,995	\$160,110	\$214,122	\$215,942



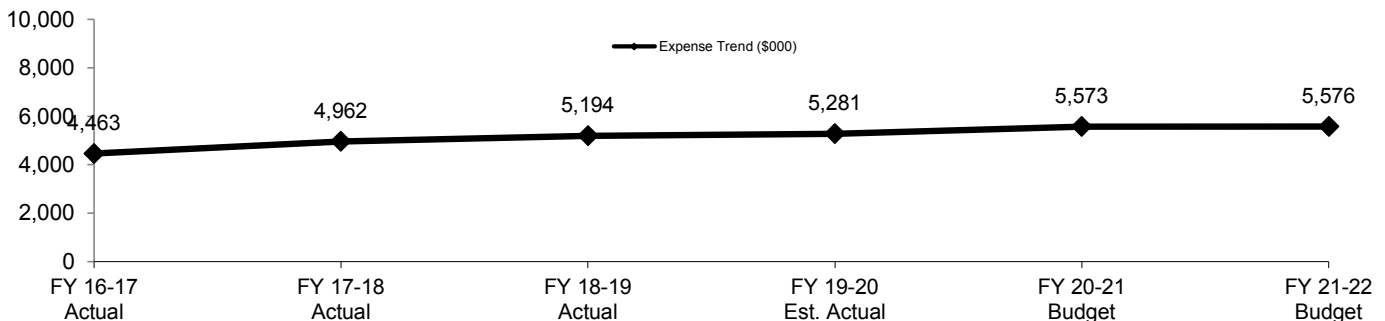
**Las Virgenes - Triunfo
Joint Powers Authority
Treatment/Reclamation - 751810**

	FY 16-17 Actual	FY 17-18 Actual	FY 18-19 Actual	FY 19-20 Budget	FY 19-20 Est. Actual	FY 20-21 Budget	FY 21-22 Budget
OPERATIONS DIVISION EXPENSE							
5400 Labor	\$1,129,884	\$1,102,930	\$1,279,747	\$1,273,237	\$1,331,612	\$1,336,000	\$1,335,000
5405.1 Electricity	699,722	797,216	648,935	877,204	653,000	487,500	525,000
5405.2 Telephone	22,609	3,137	17,199	19,568	22,000	20,000	20,000
5405.3 Natural Gas	9,741	8,743	11,395	10,082	12,000	10,000	10,000
5405.4 Water	3,747	5,263	5,837	3,392	5,000	5,500	5,500
5410 Supplies/Material	20,786	26,337	43,442	35,020	34,000	35,000	35,000
5410.1 Fuel	18,979	16,598	10,558	20,600	10,000	17,000	17,000
5410.5 Ferric Chloride	42,204	37,853	35,505	54,456	49,000	60,000	60,000
5410.6 Defoamer/Deodorant	6,082	7,079	3,981	4,120	3,000	4,120	4,120
5410.9 Alum	6,864	6,917	11,127	9,489	14,000	12,000	12,000
5410.10 Sodium Hypochlorite	212,248	184,319	297,177	208,274	225,000	230,000	230,000
5410.11 Sodium Bisulfite	77,498	98,766	91,143	115,936	91,000	115,936	115,936
5410.13 Aqua Ammonia	31,675	27,657	30,616	31,669	19,000	31,699	31,699
5415 Outside Services	28,745	37,732	48,133	30,900	57,000	120,650	120,650
5417 Odor Control	41,963	42,226	38,596	46,350	33,000	40,000	40,000
5420 Permits and Fee	91,189	89,767	91,082	101,365	101,300	102,000	102,000
5425 Consulting Services	0	96,515	46,286	4,302	37,000	40,000	40,000
5430 Capital Outlay	23,994	0	98,630	50,000	88,000	100,000	100,000
Sub-total	\$2,467,930	\$2,589,055	\$2,809,389	\$2,895,964	\$2,784,912	\$2,767,405	\$2,803,905
MAINTENANCE DIVISION EXPENSE							
5500 Labor	604,558	665,960	488,598	704,929	554,198	550,000	542,000
5510 Supplies/Material	210,976	192,150	180,230	240,000	198,000	130,000	140,000
5515 Outside Services	205,253	213,480	94,820	137,000	121,000	125,000	135,000
5518 Building Maintenance	37,573	51,195	87,276	60,000	151,304	160,804	166,630
5530 Capital Outlay	9,774	28,462	26,094	55,000	88,000	65,000	70,000
Sub-total	\$1,068,134	\$1,151,247	\$877,018	\$1,196,929	\$1,112,502	\$1,030,804	\$1,053,630
EFFLUENT DISPOSAL							
6788 District Sprayfield	251,449	283,186	314,316	321,779	250,000	270,000	275,000
6789 005 Discharge	277	387	10,917	400	400	400	400
Sub-total	\$251,726	\$283,573	\$325,233	\$322,179	\$250,400	\$270,400	\$275,400
SPECIALTY EXPENSES							
5700 SCADA Services	46,631	32,454	44,094	91,618	51,916	61,104	61,786
5710.2 Technical Services	0	0	0	517	3,460	3,875	4,325
5715.2 Other Lab Services	135,739	147,436	149,325	146,294	143,000	143,000	143,000
5715.3 Tapia Lab Sampling	114,536	120,856	120,068	139,344	110,210	160,000	165,000
7202 Allocated Lab Expense	344,163	363,855	402,279	408,917	474,596	475,000	475,000
Sub-total	\$641,069	\$664,601	\$715,766	\$786,690	\$783,182	\$842,979	\$849,111
ADMINISTRATIVE EXPENSES							
7225 Allocated Support Services	1,896,260	2,228,931	2,045,414	2,508,634	2,530,000	2,308,000	2,308,000
7226 Allocated Operations Services	867,096	1,049,788	889,119	1,154,400	1,235,000	904,000	904,000
Sub-total	\$2,763,356	\$3,278,719	\$2,934,533	\$3,663,034	\$3,765,000	\$3,212,000	\$3,212,000
TOTAL EXPENSES	\$7,192,215	\$7,967,195	\$7,661,939	\$8,864,796	\$8,695,996	\$8,123,588	\$8,194,046



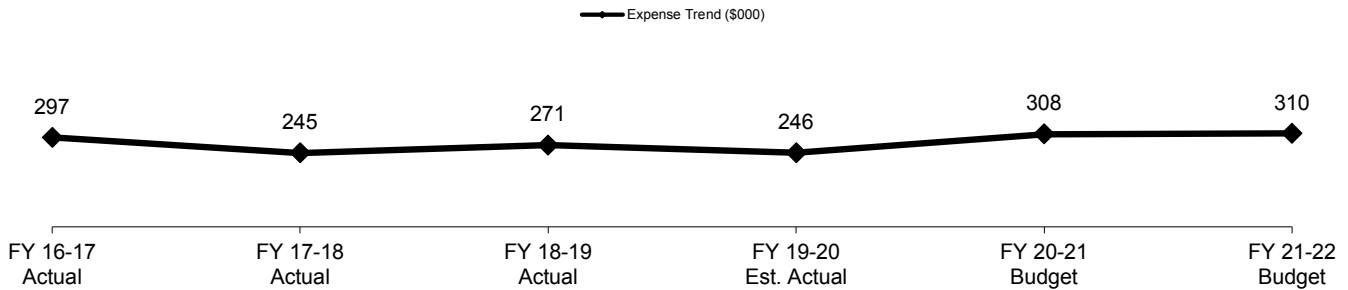
**Las Virgenes - Triunfo
Joint Powers Authority
Treatment/Composting - 751820**

	FY 16-17 Actual	FY 17-18 Actual	FY 18-19 Actual	FY 19-20 Budget	FY 19-20 Est. Actual	FY 20-21 Budget	FY 21-22 Budget
OPERATIONS DIVISION EXPENSE							
5400 Labor	\$799,729	\$815,333	\$876,160	\$912,831	\$872,526	\$880,000	\$890,000
5405.1 Electricity	351,883	353,173	317,993	375,950	231,000	325,000	365,000
5405.2 Telephone	29,025	16,030	14,520	22,660	12,500	12,000	12,000
5405.3 Natural Gas	11,702	7,501	4,317	11,331	4,000	11,400	11,400
5405.4 Water	2,712	4,209	3,909	4,469	4,000	4,800	4,800
5410 Supplies/Material	28,982	25,794	29,724	27,628	24,000	28,450	28,450
5410.1 Fuel	7,229	1,253	4,338	4,807	1,000	4,950	5,000
5410.7 Polymer	120,588	117,798	149,870	108,876	81,000	147,000	147,000
5410.8 Amendment	142,893	101,919	48,336	123,600	21,000	135,000	135,000
5415 Outside Services	0	0	258,280	2,500	209,000	32,000	33,000
5417 Odor Control	101,740	99,393	37,014	154,500	24,000	145,000	145,000
5420 Permits and Fee	32,271	13,460	15,047	19,858	16,000	20,000	20,000
5430 Capital Outlay	0	0	0	0	0	40,000	40,000
Sub-total	\$1,628,754	\$1,555,863	\$1,759,508	\$1,769,010	\$1,500,026	\$1,875,600	\$1,836,650
MAINTENANCE DIVISION EXPENSE							
5500 Labor	459,605	481,074	594,660	555,759	542,588	508,000	533,000
5510 Supplies/Material	130,135	161,371	230,902	214,000	71,000	114,000	114,000
5515 Outside Services	134,053	57,778	133,943	135,000	134,000	115,000	135,000
5518 Building Maintenance	51,058	54,746	43,539	56,000	96,373	101,373	97,015
5525 Consulting Services	2,252	0	0	0	0	0	0
5530 Capital Outlay	36,000	133,090	0	40,000	0	0	0
Sub-total	\$813,103	\$888,059	\$1,003,044	\$1,000,759	\$843,961	\$838,373	\$879,015
SPECIALTY EXPENSES							
5700 SCADA Services	2,993	6,000	11,911	19,454	0	0	0
5710.2 Technical Services	0	0	0	129	7,038	7,884	8,799
5712 Compost Sales/Use Tax	2,922	3,246	2,989	4,000	4,000	4,000	4,000
5715.2 Other Lab Services	3,525	4,334	8,093	7,440	0	8,000	8,000
5715.3 Tapia Lab Sampling	769	884	498	638	0	800	800
7202 Allocated Lab Expense	11,284	11,930	13,189	13,407	15,560	18,093	18,912
Sub-total	\$21,493	\$26,394	\$36,680	\$45,068	\$26,598	\$38,777	\$40,511
ADMINISTRATIVE EXPENSES							
7225 Allocated Support Services	1,372,144	1,688,044	1,648,049	1,781,118	1,954,000	1,895,000	1,895,000
7226 Allocated Operations Services	627,437	803,187	746,318	819,609	956,000	925,000	925,000
Sub-total	\$1,999,581	\$2,491,231	\$2,394,367	\$2,600,727	\$2,910,000	\$2,820,000	\$2,820,000
TOTAL EXPENSES	\$4,462,931	\$4,961,547	\$5,193,599	\$5,415,564	\$5,280,585	\$5,572,750	\$5,576,176



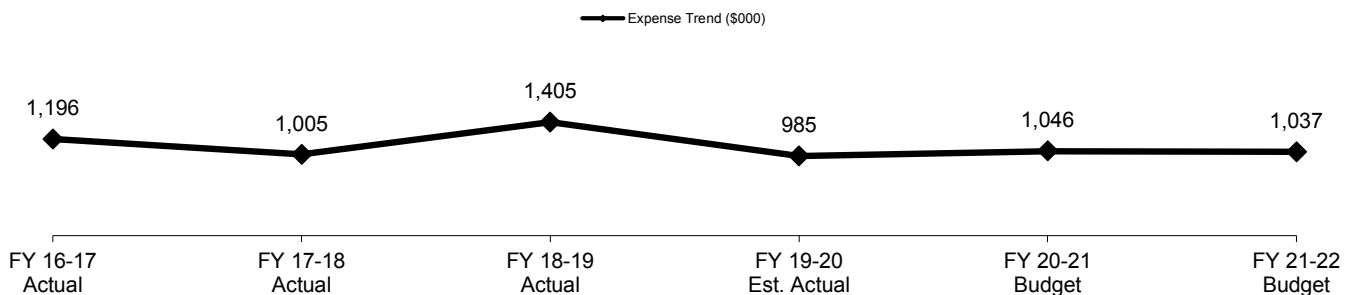
**Las Virgenes - Triunfo
Joint Powers Authority
Treatment/Centrate Treatment - 751830**

	FY 16-17 Actual	FY 17-18 Actual	FY 18-19 Actual	FY 19-20 Budget	FY 19-20 Est. Actual	FY 20-21 Budget	FY 21-22 Budget
OPERATIONS DIVISION EXPENSE							
5400 Labor	\$0	\$0	\$0	\$3,797	\$0	\$0	\$0
5405.1 Electricity	58,285	64,786	64,838	71,482	64,000	70,000	70,000
5405.4 Water	1,203	1,430	1,673	1,005	2,000	1,700	1,700
5410 Supplies/Material	801	882	876	0	0	500	500
5410.1 Fuel	0	2,214	2,909	3,891	1,000	3,000	3,000
5420 Permits and Fee	69,327	69,341	75,887	69,500	87,071	90,000	90,000
Sub-total	\$129,616	\$138,653	\$146,183	\$149,675	\$154,071	\$165,200	\$165,200
MAINTENANCE DIVISION EXPENSE							
5500 Labor	38,725	14,196	18,962	28,411	5,641	6,674	6,970
5510 Supplies/Material	4,052	11,821	2,484	15,000	2,000	15,000	15,000
5515 Outside Services	24,495	10,096	22,455	17,000	4,000	17,000	17,000
Sub-total	\$67,272	\$36,113	\$43,901	\$60,411	\$11,641	\$38,674	\$38,970
SPECIALTY EXPENSES							
5715.2 Other Lab Services	1,960	2,521	1,114	3,121	2,000	3,000	3,000
5715.3 Tapia Lab Sampling	10,400	8,612	10,870	11,320	13,036	16,469	17,201
7202 Allocated Lab Expense	22,568	23,859	26,379	26,814	31,121	36,187	37,824
Sub-total	\$34,928	\$34,992	\$38,363	\$41,255	\$46,157	\$55,656	\$58,025
ADMINISTRATIVE EXPENSES							
7225 Allocated Support Services	44,433	24,240	31,110	48,489	23,289	30,663	30,512
7226 Allocated Operations Services	20,316	10,797	11,573	22,312	10,717	17,675	17,588
Sub-total	\$64,749	\$35,037	\$42,683	\$70,801	\$34,005	\$48,338	\$48,099
TOTAL EXPENSES	\$296,565	\$244,795	\$271,130	\$322,142	\$245,874	\$307,868	\$310,294



**Las Virgenes - Triunfo
Joint Powers Authority
Administration - 751840**

	FY 16-17 Actual	FY 17-18 Actual	FY 18-19 Actual	FY 19-20 Budget	FY 19-20 Est. Actual	FY 20-21 Budget	FY 21-22 Budget
OPERATIONS DIVISION EXPENSE							
5400 Labor	\$1,424	\$0	\$0	\$717	\$0	\$0	\$0
Sub-total	\$1,424	\$0	\$0	\$717	\$0	\$0	\$0
INVENTORY EXPENSES							
5536 Inventory Adjustment	(2,393)	6,134	153,421	4,840	2,200	5,000	5,000
Sub-total	(\$2,393)	\$6,134	\$153,421	\$4,840	\$2,200	\$5,000	\$5,000
PUBLIC INFORMATION							
6602 School Education Program	22,535	14,394	2,586	20,971	814	1,105	1,152
6604 Public Education Program	70,275	45,330	29,554	67,722	23,627	20,069	20,842
6606 Community Group Outreach	1,182	2,911	0	6,028	0	8,000	8,000
6608 Intergovernmental Coordination	4,146	1,098	411	5,298	0	5,000	5,000
Sub-total	\$98,138	\$63,733	\$32,551	\$100,019	\$24,441	\$34,174	\$34,994
RESOURCE CONSERVATION							
6785 Watershed Programs	60,773	17,097	1,800	46,594	14,000	20,000	20,000
Sub-total	\$60,773	\$17,097	\$1,800	\$46,594	\$14,000	\$20,000	\$20,000
ADMINISTRATIVE EXPENSES							
6872 Litigation/Outside Services	83,990	49,115	206,946	25,000	135,000	0	0
6516 Other Professional Services	95,007	167,843	266,417	137,000	156,600	156,600	156,600
6517 Audit Fees	3,395	3,395	3,377	3,700	6,000	6,000	6,000
7110 Travel/Misc Staff Expense	248	0	0	0	0	0	0
7135.1 Property Insurance	56,955	69,614	79,858	59,779	80,859	0	0
7135.4 Earthquake Insurance	91,466	110,557	117,389	95,559	92,073	0	0
7145 Claims Paid	122,451	21,000	0	0	0	0	0
7153 TSD Staff Services	0	0	0	5,000	5,500	6,000	6,000
7155 Other Expense	54,029	9,000	0	0	0	0	0
6260 Rental Charge - Facility Repl	371,357	351,674	377,618	363,316	355,453	363,316	363,316
Allocated Insurance	0	0	0	0	0	175,131	183,888
Allocated Legal Services	0	0	0	0	0	135,000	135,000
7203 Allocated Building Maint	83,651	89,824	153,010	88,804	92,424	115,392	96,642
7225 Allocated Support Services	51,723	31,374	8,767	163,458	14,326	18,861	18,763
7226 Allocated Operations Services	23,652	14,936	3,977	75,217	6,592	10,872	10,815
Sub-total	\$1,037,924	\$918,332	\$1,217,359	\$1,016,834	\$944,828	\$987,172	\$977,025
TOTAL EXPENSES	\$1,195,866	\$1,005,296	\$1,405,131	\$1,169,004	\$985,469	\$1,046,346	\$1,037,019



CIP Projects FY 2020-21 and FY 2021-22

Sanitation

SCADA System Communications Upgrade-10520

Prior Year Expenditures	Prior Year Appropriations	Carryforward
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32,447.00	93,100.00	60,653.00
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Project Description:

Migration of the existing communication system from a serial radio network to an Ethernet based radio network. Provide redundant data paths for uninterrupted communication. Eliminate need to rely on telephone company equipment.

Sanitation-100 %

	FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations	Future Year Appropriations	Project Total
LV Share Amount 70.6%	-	-	-	527,942.56	
TWSD Share Amount 29.4%	-	-	-	219,851.44	
Project Totals	-	-	-	747,794.00	840,894.00

Tapia Programmable Logic Controller Upgrades-10567

Prior Year Expenditures	Prior Year Appropriations	Carryforward
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136,665.00	1,311,560.00	1,174,895.00
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Project Description:

This project replaces programmable logic controllers (PLC's) with new and provides necessary equipment upgrades (fiber optics, network switches and programming) to complete the installation. This is a program project which addresses Tapia in the first two years and centrate treatment in the third year. Design will occur in the first year for all facilities.

Sanitation-100 %

	FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations	Future Year Appropriations	Project Total
LV Share Amount 70.6%	839,038.64	1,668,514.51	-	-	
TWSD Share Amount 29.4%	349,401.36	694,820.49	-	-	
Project Totals	1,188,440.00	2,363,335.00	-	-	2,500,000.00

Summer Season TMDL Compliance-10619

Project Description:

In February 2017 the SWRCB adopted the Implementation Plan for the TMDL. The plan provides for compliance with summer time limits within five years. The options for compliance include a "side stream" treatment plant, the use of potable water and nutrient trading in the watershed. This CIP funds the selection, preliminary studies, outreach, CEQA analysis, preliminary design and final design for summer time compliance. Project 10611 (Duct Bank Infrastructure Upgrade) was added to this program for the FY19-20 planning period. Construction of a 1 MGD "side stream" treatment facility at Tapia to treat potable water for stream flow augmentation. Project is currently in 80% final design.

Sanitation-100 %

	FY 20-21	FY 20-21	FY 20-21	FY 21-22	Future Year
	Appropriations	Budget	Appropriations	Appropriations	Appropriations
LV Share Amount 70.6%	1,050,097.34	1,849,155.20	-	-	-
TWSD Share Amount 29.4%	437,292.66	770,044.80	-	-	-
Project Totals	1,487,390.00	2,619,200.00	-	-	-
					2,937,375.00

Pure Water Project-10635

Project Description:

This project funds preliminary studies, outreach, CEQA analysis, prelin design and final design. The 2018 project cost estimate (\$121M) was updated using an annual inflationary factor of 3%.

Sanitation-100 %

	FY 20-21	FY 20-21	FY 21-22	Future Year
	Appropriations	Budget	Appropriations	Appropriations
LV Share Amount 70.6%	73,097.83	2,055,424.40	5,824,156.88	-
TWSD Share Amount 29.4%	30,440.17	855,941.60	2,425,357.12	-
Project Totals	103,538.00	2,911,366.00	8,249,514.00	150,332,120.00
				162,141,654.00
Project Offset			(1,424,537.15)	
			Net Project	160,717,116.85

A/B Bus Electrical Modification-10661

Project Description:

Study the feasibility of reconfiguring the Tapia electrical switch gear and hire electrical team to make the modifications. Construction cost estimates will be developed following the completion of the feasibility study.

	Prior Year Expenditures	Prior Year Appropriations	Carryforward						
				FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations	Future Year Appropriations	Project Total	
	-	100,000.00	100,000.00						
Sanitation-100 %									
LV Share Amount 70.6%		70,600.00							
TWSD Share Amount 29.4%		29,400.00							
Project Totals		100,000.00						100,000.00	

Rancho Las Virgenes Storm Water Diversion-10668

Project Description:

Replacement of two storm water diversion structures at the Rancho Las Virgenes Composting Facility. Structures have lifted and need to be addressed. The drainage from the V-ditch goes to a discharge point in Las Virgenes Creek. There is a concern that sludge and/or reclaimed water entering into the V-ditch could enter the creek via the drainage from the V-ditch. An Open/Close valve should be installed at the drainage area so that operators control the contents of the V-ditch. A sump pump system with discharge piping should also be included so that the contents can be pumped either to the field or offsite.

	Prior Year Expenditures	Prior Year Appropriations	Carryforward						
				FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations	Future Year Appropriations	Project Total	
	3,746.00	41,767.00	38,021.00						
Sanitation-100 %									
LV Share Amount 70.6%	74,154.71	100,997.54	83,025.60						
TWSD Share Amount 29.4%	30,880.29	42,058.46	34,574.40						
Project Totals	105,035.00	143,056.00	117,600.00					264,402.00	

Develop Seating Area at Tapia-10669

	Prior Year Expenditures	Prior Year Appropriations	Carryforward
Project Description: Develop tour seating area and climate appropriate landscaping at Tap adjacent to the control building.	14,035.00	25,000.00	10,965.00
Sanitation-100 %			
	FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations
LV Share Amount 70.6%	-	7,741.29	-
TWSD Share Amount 29.4%	-	3,223.71	-
Project Totals	-	10,965.00	-
			Future Year Appropriations
			-
			Project Total
			25,000.00

Centrate 24" Valve Replacement

	Prior Year Expenditures	Prior Year Appropriations	Carryforward
Project Description: Replace two (2) buried 24-inch Miliken valves at the centrate facility.	-	264,000.00	264,000.00
Sanitation-100 %			
	FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations
LV Share Amount 70.6%	17,650.00	204,034.00	-
TWSD Share Amount 29.4%	7,350.00	84,966.00	-
Project Totals	25,000.00	289,000.00	-
			Future Year Appropriations
			-
			Project Total
			289,000.00

Rancho Las Virgenes Digester Cleaning and Repair-10680

Project Description:		Prior Year Expenditures	Prior Year Appropriations	Carryforward
Rehabilitation and repair of Digester No. 2 at Rancho Compost Facility		2,235,428.00	2,235,428.00	-
Sanitation-100 %				
		FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations
	LV Share Amount 70.6%	438,468.36	438,468.36	-
	TWSD Share Amount 29.4%	182,591.64	182,591.64	-
	Project Totals	621,060.00	621,060.00	-
				Future Year Appropriations
				-
				Project Total
				2,856,488.00

Rancho Fire Repair- Woolsey Fire-10689

Project Description:		Prior Year Expenditures	Prior Year Appropriations	Carryforward
Repair compost and cure building, fire damaged windows and roofing mechanical equipment, irrigation system, electrical, architectural facade, biofilter and other damaged items.		682,985.00	1,989,455.00	1,306,470.00
Sanitation-100 %				
		FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations
	LV Share Amount 70.6%	125,385.60	987,753.42	-
	TWSD Share Amount 29.4%	52,214.40	436,316.58	-
	Project Totals	177,600.00	1,424,070.00	-
	Project Offset			
				Net Project
				2,107,055.00

JPA Facility Repairs-Woolsey Fire-10692

Project Description:

Repair JPA owned fire damaged facilities, property and equipment. De include irrigation systems at Rancho Compost Facility and Reservoir 2. Budget for design under CIP# 10691.

	Prior Year Expenditures	Prior Year Appropriations	Carryforward	FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations	Future Year Appropriations	Project Total
	3,864.00	878,612.00	874,748.00					
Sanitation-100 %								
LV Share Amount 70.6%	-	617,572.09	-	-	-	-	-	-
TWSD Share Amount 29.4%	-	257,175.91	-	-	-	-	-	-
Project Totals	-	874,748.00	-	-	-	-	-	878,612.00
Project Offset								
			Net Project				878,612.00	

Tapia Effluent Pump Station-10702

Project Description:

Remove or abandon in place existing 4160 volt feeders currently susp from the top slab of the Effluent Pump Station wet well, underneath the existing MICCs. Perform electrical design and replace the overhead 4160 volt feeders. Ensure coordination with 480 volt switch gear improvements.

	Prior Year Expenditures	Prior Year Appropriations	Carryforward	FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations	Future Year Appropriations	Project Total
	-	100,000.00	100,000.00					
Sanitation-100 %								
LV Share Amount 70.6%	-	70,600.00	279,576.00	-	-	-	-	-
TWSD Share Amount 29.4%	-	29,400.00	116,424.00	-	-	-	-	-
Project Totals	-	100,000.00	396,000.00	-	-	-	-	496,000.00

Tapia Tertiary Filter Rehab-10703

Project Description:

Tertiary Filters concrete rehabilitation. Approximately 25 locations that require a 1 square foot patching with rebar repair. Replace 45 metal plates (2' X 4') on the filter deck and fix concrete around the plates with proper joint sealer. Also include the repair of an electrical panel in the Filter gallery. Replace existing electric actuators at filter structure with new electric actuators. Program plant control system to function with both remote PLC control of actuators and local actuator control. Upgrade local controls to replace old filter annunciator panels which are currently located on the top

	FY 20-21	FY 20-21	FY 21-22	Future Year	Project Total
Sanitation-100 %	Appropriations	Budget	Appropriations	Appropriations	
LV Share Amount 70.6%	13,516.80	55,915.20	-	-	
TWSD Share Amount 29.4%	5,683.20	23,284.80	-	-	
Project Totals	19,200.00	79,200.00	-	-	79,200.00

Rancho Reliability Improvements-201839

Project Description:

Replace or rehabilitate facilities and equipment at the Rancho facility | on failure, beyond useful life, or obsolescence. Specific projects are identified for each fiscal year.

	FY 20-21	FY 20-21	FY 21-22	Future Year	Project Total
Sanitation-100 %	Appropriations	Budget	Appropriations	Appropriations	
LV Share Amount 70.6%	93,192.00	93,192.00	93,192.00	-	
TWSD Share Amount 29.4%	38,808.00	38,808.00	38,808.00	-	
Project Totals	132,000.00	132,000.00	132,000.00	1,056,000.00	1,320,000.00

Tapia Water Reclamation Facility Improvements-201840

Project Description:

Replace or rehabilitate facilities and equipment at the Tapia Water Reclamation facility based on failure, end of useful life, or obsolescence. Specific projects are identified for each fiscal year.

	Prior Year Expenditures	Prior Year Appropriations	Carryforward				
				FY 20-21	FY 20-21	FY 21-22	Future Year
				Appropriations	Budget	Appropriations	Appropriations
							Project Total
Sanitation-100 %							
LV Share Amount 70.6%				93,192.00	93,192.00	93,192.00	-
TWSD Share Amount 29.4%				38,808.00	38,808.00	38,808.00	-
Project Totals				132,000.00	132,000.00	132,000.00	1,320,000.00

Tapia Influent Pump Replacement-201854

Project Description:

Replacement of two (2) influent pumps with dry pit submersible pump pit submersible pumps will improve staff's ability to maintain and improve staff safety when performing maintenance. This project was identified in the 2017 Carollo study.

	Prior Year Expenditures	Prior Year Appropriations	Carryforward				
				FY 20-21	FY 20-21	FY 21-22	Future Year
				Appropriations	Budget	Appropriations	Appropriations
							Project Total
Sanitation-100 %							
LV Share Amount 70.6%				-	-	279,576.00	-
TWSD Share Amount 29.4%				-	-	116,424.00	-
Project Totals				-	-	396,000.00	924,000.00
							1,320,000.00

Lift Station No.1 Pump Replacement-201855

Project Description:
Replacement of (3) pumps

	Prior Year Expenditures	Prior Year Appropriations	Carryforward	FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations	Future Year Appropriations	Project Total
Sanitation-100 %	-	-	-	-	-	279,576.00	-	-
LV Share Amount 70.6%	-	-	-	-	-	116,424.00	-	-
TWSD Share Amount 29.4%	-	-	-	-	-	396,000.00	-	396,000.00
Project Totals	-	-	-	-	-	-	-	-

Lift Station No.2 Pump Replacement-201856

Project Description:
Replacement of (3) pumps

	Prior Year Expenditures	Prior Year Appropriations	Carryforward	FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations	Future Year Appropriations	Project Total
Sanitation-100 %	-	-	-	-	-	279,576.00	-	-
LV Share Amount 70.6%	-	-	-	-	-	116,424.00	-	-
TWSD Share Amount 29.4%	-	-	-	-	-	396,000.00	-	396,000.00
Project Totals	-	-	-	-	-	-	-	-

Tapia Hypochlorite Tank Replacement-201857

Project Description:

Replace the three fiberglass sodium hypochlorite tanks at Tapia. They over 20 years old and beyond their expected life span. Leaks have been frequently developing and repairs are costly and difficult.

Sanitation-100 %	FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations	Future Year Appropriations	Project Total
LV Share Amount 70.6%	136,399.20	136,399.20	-	-	-
TWSD Share Amount 29.4%	56,800.80	56,800.80	-	-	-
Project Totals	193,200.00	193,200.00	-	-	193,200.00

Tapia Secondary Clarifier Rehab-201858

Project Description:

Repair the secondary clarifiers. The current launders are leaking and have the wall seal repaired. Replacement on the inlet diffusers and skimming tubes is also necessary as they are corroded and leaking. Re-caulking the expansion joints and structural repairs to catwalks are needed as they are separating from the wall.

Sanitation-100 %	FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations	Future Year Appropriations	Project Total
LV Share Amount 70.6%	198,386.00	198,386.00	-	-	-
TWSD Share Amount 29.4%	82,614.00	82,614.00	-	-	-
Project Totals	281,000.00	281,000.00	-	-	281,000.00

Tapia Effluent Meter Replacement-201859

Project Description:

With the summertime compliance project being constructed next year 001 out fall meter will be removed. Additionally, the Tapia groundwater meter has aged out and the 003 meter needs to be replaced. These meters are regulatory required. This project replaces the 001, 003 and the Tapia groundwater effluent meters.

Sanitation-100 %	FY 20-21 Appropriations	FY 20-21 Budget	FY 20-21 Appropriations	FY 21-22 Appropriations	Future Year Appropriations	Project Total
LV Share Amount 70.6%	25,000.00	25,000.00	-	-	-	-
TWSD Share Amount 29.4%	8,000.00	8,000.00	-	-	-	-
Project Totals	33,000.00	33,000.00	-	-	-	33,000.00

Tapia Sludget Wet Well Re-Circulation-201860

Project Description:

The re-circulation (mixing) piping at the Tapia sludge wet wells is corroded and develops leaks. This project replaces this piping. 0 are regulatory required. This project replaces the 001, 003 and the Tapia groundwater effluent meters.

Sanitation-100 %	FY 20-21 Appropriations	FY 20-21 Budget	FY 20-21 Appropriations	FY 21-22 Appropriations	Future Year Appropriations	Project Total
LV Share Amount 70.6%	-	-	-	44,336.80	-	-
TWSD Share Amount 29.4%	-	-	-	18,463.20	-	-
Project Totals	-	-	-	62,800.00	-	62,800.00

Tapia Air Line Repair-201861

Project Description:

The air line which conveys compressed air to the treatment process h. which not only allow air to escape, but also allow contaminants to enter into the pipeline and potentially the air diffusers. A large portion of this line was repaired, however a section of the pipeline was not addressed. This section needs to be addressed to stop leakage and protect the diffuser membranes.

	FY 20-21	FY 20-21	FY 20-21	FY 20-21	FY 21-22	Future Year	Project Total
Sanitation-100 %	Appropriations	Budget	Appropriations	Appropriations	Appropriations	Appropriations	
LV Share Amount 70.6%	-	-	-	35,300.00	-	-	
TWSD Share Amount 29.4%	-	-	-	14,700.00	-	-	
Project Totals	-	-	-	50,000.00	-	-	50,000.00

Rancho Valving In Street Replacement- 201862

Project Description:

Replace the broken or damaged R.E.W. and Potable Water valving throughout the facility.

	FY 20-21	FY 20-21	FY 20-21	FY 21-22	Future Year	Project Total
Sanitation-100 %	Appropriations	Budget	Appropriations	Appropriations	Appropriations	
LV Share Amount 70.6%	-	-	-	178,971.00	-	
TWSD Share Amount 29.4%	-	-	-	74,529.00	-	
Project Totals	-	-	-	253,500.00	-	253,500.00

Multi Site Security Assessment and Improvement- JPA-201866

Project Description:

Replace the broken or damaged R.E.W. and Potable Water valving throughout the facility.

	Prior Year Expenditures	Prior Year Appropriations	Carryforward	
	26,000.00	26,000.00	-	
Sanitation-100 %				
	FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations	Future Year Appropriations
LV Share Amount 70.6%	17,473.50	17,473.50	7,276.50	-
TWSD Share Amount 29.4%	14,920.50	14,920.50	24,750.00	-
Project Totals	32,394.00	32,394.00	32,026.50	-
				Project Total
				90,420.50

Tapia Gantry Crane-201875

Project Description:

Design, build and construct gantry crane for future maintenance of ae basin diffusers.

	Prior Year Expenditures	Prior Year Appropriations	Carryforward	
	-	-	-	
Sanitation-100 %				
	FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations	Future Year Appropriations
LV Share Amount 70.6%	-	-	81,613.36	-
TWSD Share Amount 29.4%	-	-	33,986.40	-
Project Totals	-	-	115,599.76	-
				Project Total
				115,599.76

Tapia Flow Equalization-201904

Project Description:

This project consists of the development of a preliminary design report to evaluate the storage and conveyance of Tapia primary effluent to help store and equalize the diurnal peak flows that Tapia sees between dry and wet weather events. This maximizes effluent available for the AWT and also improves and provides consistent water quality for the feed water to the

	FY 20-21	FY 20-21	FY 20-21	FY 20-21	FY 20-21	FY 21-22	Future Year	Project Total
Sanitation-100 %	Appropriations	Budget	Appropriations	Appropriations	Appropriations	Appropriations	Appropriations	
LV Share Amount 70.6%	70,600.00	70,600.00	-	-	176,500.00	-	-	
TWSD Share Amount 29.4%	29,400.00	29,400.00	-	-	73,500.00	-	-	
Project Totals	100,000.00	100,000.00	-	-	250,000.00	-	-	350,000.00

Tapia HVAC Replacement-201906

Project Description:

Replace existing 40-year old HVAC at Tapia.

	FY 20-21	FY 20-21	FY 20-21	FY 20-21	FY 21-22	Future Year	Project Total
Sanitation-100 %	Appropriations	Budget	Appropriations	Appropriations	Appropriations	Appropriations	
LV Share Amount 70.6%	214,624.00	214,624.00	-	-	-	-	
TWSD Share Amount 29.4%	89,376.00	89,376.00	-	-	-	-	
Project Totals	304,000.00	304,000.00	-	-	-	-	304,000.00

Rancho Generator Study and Purchase-201907

Project Description:

Commission study/design of backup generator requirements followed by purchase and installation of recommended equipment

	Prior Year Expenditures	Prior Year Appropriations	Carryforward	FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations	Future Year Appropriations	Project Total
Sanitation-100 %								
LV Share Amount 70.6%	214,624.00	214,624.00	194,390.04	214,624.00	214,624.00	194,390.04	-	
TWSD Share Amount 29.4%	89,376.00	89,376.00	80,949.96	89,376.00	89,376.00	80,949.96	-	
Project Totals	304,000.00	304,000.00	275,340.00	304,000.00	304,000.00	275,340.00	-	579,340.00

Concrete Corrosion/Crack Repair-Tapia-201912

Project Description:

Repair failing concrete at the Tapia Water Reclamation Facility

	Prior Year Expenditures	Prior Year Appropriations	Carryforward	FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations	Future Year Appropriations	Project Total
Sanitation-100 %								
LV Share Amount 70.6%	46,596.00	46,596.00	46,596.00	46,596.00	46,596.00	46,596.00	-	
TWSD Share Amount 29.4%	19,404.00	19,404.00	19,404.00	19,404.00	19,404.00	19,404.00	-	
Project Totals	66,000.00	66,000.00	66,000.00	66,000.00	66,000.00	66,000.00	66,000.00	198,000.00

Lift Station Improvements- 201914

Project Description:

Repair and rehabilitate aging lift stations.

	Prior Year Expenditures	Prior Year Appropriations	Carryforward	
	-	-	-	
Sanitation-100 %				
		FY 20-21	FY 21-22	Future Year
		Appropriations	Appropriations	Appropriations
LV Share Amount 70.6%	105,900.00	105,900.00	783,660.00	-
TWSD Share Amount 29.4%	44,100.00	44,100.00	326,340.00	-
Project Totals	150,000.00	150,000.00	1,110,000.00	1,110,000.00
				Project Total
				2,370,000.00

Fire Hardening- JPA Facilities-201915

Project Description:

Fire hardening strategy for JPA facilities includes preventative measurement systems for both internal and external sources of fire. Potential facility improvements include: 1) Employing advanced detectors and utilizing a plant fire safety systems; and 2) evaluation and, if feasible, installation of a perimeter fire defense system. Fire Hardening also includes creating larger defensible space around critical structures and providing wider access roads and preventative improvements to facilities.

	Prior Year Expenditures	Prior Year Appropriations	Carryforward	
	-	-	-	
Sanitation-100 %				
		FY 20-21	FY 21-22	Future Year
		Appropriations	Appropriations	Appropriations
LV Share Amount 70.6%	186,384.00	186,384.00	186,384.00	-
TWSD Share Amount 29.4%	77,616.00	77,616.00	77,616.00	-
Project Totals	264,000.00	264,000.00	264,000.00	2,112,000.00
				Project Total
				2,640,000.00

Discharge Point Rehab-201918

Project Description:

Evaluate and repair failed 003 Discharge point pipeline (into Malibu Cr Contract for inspection, an engineering study and a design report to determine the most cost effective means to repair failed 24" potable water pipeline from the Tapia Water Reclamation Facility to Malibu Creek. The pipeline will be used to supply potable supplement to the Malibu Creek during low flow periods. Approximately one (1) mile of pipeline needs to be and preventative improvements to facilities.

Sanitation-100 %

	FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations	Future Year Appropriations	Project Total
LV Share Amount 70.6%	543,125.80	543,125.80	-	-	-
TWSD Share Amount 29.4%	226,174.20	226,174.20	-	-	-
Project Totals	769,300.00	769,300.00	-	-	769,300.00

Grit Chamber Mixing System Replacement-60030

Project Description:

Replace grit chamber mixing system with a more efficient mixing system

Sanitation-100 %

	FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations	Future Year Appropriations	Project Total
LV Share Amount 70.6%	93,898.00	93,898.00	-	-	-
TWSD Share Amount 29.4%	39,102.00	39,102.00	-	-	-
Project Totals	133,000.00	133,000.00	-	-	133,000.00

New RAS Wet Well and Pumps-60031

Project Description:

Replace RAS wet well and pumps to increase pumping capacity and re

Prior Year Expenditures	-	Prior Year Appropriations	-	Carryforward	-
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	FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations	Future Year Appropriations	Project Total
Sanitation-100 %					
LV Share Amount 70.6%	84,720.00	84,720.00	790,720.00	-	-
TWSD Share Amount 29.4%	35,280.00	35,280.00	329,280.00	-	-
Project Totals	120,000.00	120,000.00	1,120,000.00	-	1,240,000.00

Centrate Tank Inspection and Rehabilitation Assessment-70019

Project Description:

Replace RAS wet well and pumps to increase pumping capacity and re

Prior Year Expenditures	-	Prior Year Appropriations	-	Carryforward	-
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	FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations	Future Year Appropriations	Project Total
Sanitation-100 %					
LV Share Amount 70.6%	7,060.00	7,060.00	-	-	-
TWSD Share Amount 29.4%	2,940.00	2,940.00	-	-	-
Project Totals	10,000.00	10,000.00	-	-	10,000.00

Trunk Sewer System Improvements-99983

Project Description:

Replace or rehabilitate trunk sewer system components based on CCT condition assessment & SSMP, end of useful life, or obsolescence. Specific projects are identified for each fiscal year (see project 201877 for FY 20-21 related activity).

	Prior Year Expenditures	Prior Year Appropriations	Carryforward	
	-	-	-	
Sanitation-100 %				
	FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations	Future Year Appropriations
LV Share Amount 70.6%	-	-	783,660.00	-
TWSD Share Amount 29.4%	-	-	326,340.00	-
Project Totals	-	-	1,110,000.00	1,110,000.00

Sanitation Summary

	7,869,300.00			
Carryforward	FY 20-21 Budget	FY 20-21 Appropriations	FY 21-22 Budget	FY 21-22 Appropriations
LV Share Amount 70.6%	5,555,725.80	4,762,583.78	10,257,950.50	9,515,554.95
TWSD Share Amount 29.4%	2,313,574.20	1,988,573.22	4,301,943.50	3,984,288.16
	7,869,300.00	6,751,157.00	14,559,894.00	13,499,843.11

Recycled Water

Canyon Oaks Park RW Main Extension-10629

	Prior Year Expenditures	Prior Year Appropriations	Carryforward	
Project Description:				
Extension to serve the City of Westlake Village's Oak Canyon Park and eliminate a long private service line to Yerba Buena School. Funding from Prop 84 IRWM 2015.	7,451.00	399,780.00	392,329.00	
Recycled-100 %				
	FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations	Future Year Appropriations
LV Share Amount 70.6%	-	276,631.98	-	-
TWSD Share Amount 29.4%	-	115,198.02	-	-
Project Totals	-	391,830.00	-	-
				399,281.00

Cordillera Tank Rehab-10665

	Prior Year Expenditures	Prior Year Appropriations	Carryforward	
Project Description:				
Rehabilitation of Cordillera Tank including interior and exterior coating and appurtenance upgrades and replacements, restoration of deteriorated asphalt, and work to ensure up-to-date compliance for safety and water quality equipment.	39,879.00	1,201,267.00	1,161,388.00	
Recycled-100 %				
	FY 20-21 Appropriations	FY 20-21 Budget	FY 21-22 Appropriations	Future Year Appropriations
LV Share Amount 70.6%	-	819,939.93	-	-
TWSD Share Amount 29.4%	-	341,448.07	-	-
Project Totals	-	1,161,388.00	-	-
				1,201,267.00

Santitation Summary

	FY 20-21		FY 21-22	
	Carryforward	Appropriations	Budget	Appropriations
LV Share Amount 70.6%	5,555,725.80	4,766,316.84	10,279,285.16	9,530,889.24
TWSD Share Amount 29.4%	2,313,574.20	1,984,840.16	4,280,608.84	3,968,953.87
	7,869,300.00	6,751,157.00	14,559,894.00	13,499,843.11

Recycled Water Summary

	FY 20-21		FY 20-21		FY 21-22	
	Carryforward	Appropriations	Budget	Budget	Appropriations	Appropriations
LV Share Amount 70.6%	1,096,924.20	-	1,096,571.91	-	-	-
TWSD Share Amount 29.4%	456,792.80	-	456,646.09	-	-	-
	1,553,717.00	-	1,553,218.00	-	-	-

Grand Total

	FY 20-21		FY 20-21		FY 21-22	
	Carryforward	Appropriations	Budget	Budget	Appropriations	Appropriations
LV Share Amount 70.6%	6,652,713.54	4,766,316.84	11,375,857.07	9,530,889.24	9,530,889.24	9,530,889.24
TWSD Share Amount 29.4%	2,770,393.46	1,984,840.16	4,737,254.93	3,968,953.87	3,968,953.87	3,968,953.87
	9,423,107.00	6,751,157.00	16,113,112.00	13,499,843.11	13,499,843.11	13,499,843.11

May 4, 2020 JPA Board Meeting

TO: JPA Board of Directors

FROM: Engineering and External Affairs

**Subject : Rancho Las Virgenes Farm Sprayfields Operation and
Maintenance: Contract Extension**

SUMMARY:

On February 3, 2020, the JPA Board authorized the Administering Agent/General Manager to execute a three-month extension to the existing agreement with W. Litten Land Preparation for on-going operation and maintenance of the Rancho Las Virgenes Farm Sprayfields. The additional time was needed to address an important issue resulting from the issuance of a request for proposals for the services. The principle concern involves a determination related to the appropriate job classifications and wages based on interpretation of prevailing wage regulations. To resolve this matter and maintain the cost effectiveness of the services, staff sent the attached letter to the California Department of Industrial Relations (DIR) to seek clarity on the appropriate wage rates for the services provided to operate and maintain the farm sprayfields. At this time, the JPA has not received a response from DIR and additional time is needed to resolve the prevailing wage issues, while continuing work for the sprayfields. Staff recommends extending the existing contract by an additional six months.

RECOMMENDATION(S):

Authorize the Administering Agent/General Manager to execute a six-month extension to the existing agreement with W. Litten Land Preparation, in an amount not to exceed \$125,000, for the on-going operation and maintenance of the Rancho Las Virgenes Farm Sprayfields.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

The cost of this action is \$125,000 for six months, which is consistent with the historical annual cost of \$250,000. Sufficient funds are available in the adopted Fiscal Year 2019-20 JPA

Budget for this work. The cost of the work is allocated 70.6% to LVMWD and 29.4% to Triunfo Water & Sanitation District.

DISCUSSION:

For the past 11 years, the JPA Board has authorized the Administering Agent/General Manager to execute one-year contracts with W. Litten Land Preparation (Litten), in annual amounts not to exceed \$250,000, for the operation and maintenance of the JPA's Rancho Las Virgenes Farm Sprayfields. LVMWD Purchasing Policy requires that existing contracts exceeding \$35,000 be renewed through a competitive process every five years. Since this work was overdue for a competitive process, staff issued a request for proposals (RFP) on December 9, 2019. Staff reached out to numerous potential contractors to encourage the submittal of proposals. However, despite the efforts to circulate the RFP, only one proposal was submitted from Litten.

Most of the work performed for the sprayfields is agricultural in nature and requires a particular expertise and familiarity with agricultural or farm operations. The Rancho Las Virgenes Farm Sprayfields are not proximate to other agricultural activities of this type, which are more common in the Oxnard and Camarillo areas. As a result, the number of potential contractors is limited by experience, expertise and willingness to travel to and from the Rancho Las Virgenes Farm Sprayfields.

The District is required by California law to pay prevailing wage for public works projects and, as such, was a requirement contained in the RFP. Based on the applicant's interpretation of prevailing wage regulations and the job classifications used to determine wages in the proposal, the costs for these services could double from \$250,000 to \$500,000 per year. However, agricultural work is largely exempt from prevailing wage regulations with the exception of providing minimum wage, breaks, restroom facilities and other human resource considerations. To ensure that the proper wages are paid and minimize the cost of these services, staff reached out to DIR for clarification and possible determination of specific job classifications for the work performed at the sprayfields.

The District has not received a response from DIR at this time and expects additional delays with state employees working from home as a result of the COVID-19 crisis. The additional time provided by the extension will allow for continuation of work in the sprayfields under the existing agreement, while follows up with DIR on ensuring the proper job classifications and wage rates for the services. The extension will also allow enough time for recirculating the RFP, if necessary.

Prepared by: Dave Roberts, Resource Conservation Manager

ATTACHMENTS:

Letter to California Department of Industrial Relations



Dedicated to Providing High-Quality
Water Service in a Cost-Effective and
Environmentally Sensitive Manner

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MEMBER AGENCY OF THE
METROPOLITAN WATER
DISTRICT
OF SOUTHERN CALIFORNIA

Glen D. Peterson

MWD Representative

February 25, 2020

Prevailing Wage Unit
Department of Industrial Relations
P.O. Box 420603
San Francisco, CA 94142
Via Fax: 415-703-4771

SUBJECT: Request of Special Wage Determination for Agricultural Services

Dear Research Manager,

The Las Virgenes Municipal Water District provides potable water, recycled water and sanitation (wastewater) services to a population of approximately 70,000 people on the western edge of Los Angeles County. Sanitation and recycled water services are provided through a Joint Powers Authority with the Triunfo Water and Sanitation District. As part of these services, the District currently operates one location requiring contracted farming services at the Rancho Las Virgenes Farm and Composting Facility.

In addition to composting solid waste from wastewater treatment, the Rancho Las Virgenes Farm and Composting Facility is used for seasonal disposal of excess recycled water. Farm operations at this facility are needed to allow for any seasonal or operational surplus of recycled water that cannot otherwise be released to the watershed or stored for future use, to be sprayed onto cultivated lands that provide for the active uptake of water and nutrients. Grass or mixed pasture crops are grown at an agronomic rate and harvested as needed. Agricultural irrigation systems are seasonally installed and dismantled to allow for crop harvest and field maintenance such as disking and mowing. Routine site maintenance is also performed as is typically associated with agricultural activities such as weed abatement, maintain drainage conveyance and erosion control, debris removal, gravel road maintenance and fence repair.

The District is requesting the Prevailing Wage Unit determine if these positions are considered agricultural positions and as such, subject to prevailing wage considerations for agricultural activities and/or set a special wage applicable to this ongoing operational activity. The Districts operations group has identified four positions and associated tasks below as needed to perform spray field and farming services at the Ranch Las Virgenes Farm and Composting Facility.

Unskilled Farm Labor

1. Perform routine activities associated with spray field and farming operations such as irrigation operation and maintenance, equipment repair, maintain drainage systems, weed abatement, and debris removal

Skilled Farm Labor/operator

1. Perform job functions of Unskilled Farm Labor
2. Occasionally operate tractors and farm equipment such as chain saws and weed eaters
3. Provide direction and oversight to Unskilled Farm Labor

Farm Foreman/operator

1. Perform functions of Skilled Farm Labor
2. Provide day to day supervision of farm labor and operations
3. Identify and prioritize needed activities and develop schedule for completion

Farm Operations Manager

1. Provide overall supervision of farm operations
2. Schedule employees and assure that needed tasks are being completed
3. Performs administrative duties and contract management responsibilities

Please feel free to contact me directly at (818) 251-2145 with any questions or if you require additional information.

Sincerely,

Dave Roberts
Resource Conservation Manager
Las Virgenes Municipal Water District

May 4, 2020 JPA Board Meeting

TO: JPA Board of Directors

FROM: Facilities & Operations

Subject : Pure Water Project Las Virgenes-Triunfo: Future Supply Actions Funding Program

SUMMARY:

In August 2018, the JPA and Carollo Engineers, Inc., collaborating with Yokogawa Electrical Corporation, submitted a grant application to the Metropolitan Water District of Southern California for its Future Supply Actions Funding Program. The grant requested funding to implement and test artificial intelligence (AI) and machine learning (ML) control algorithms as part of the Pure Water Demonstration Project. Additionally, the application included an evaluation of model predictive control (MPC) at the Tapia Water Reclamation Facility, specifically evaluating Yokogawa's innovative Data-Driven Modeling for Optimization (DDMO) to achieve cost-savings in the operation of the aeration basins.

The goal of the project is to determine if AI/ML could provide intelligent system controls that would increase the resiliency, reliability and efficiency of the Advanced Water Treatment Facility through an additional virtual barrier, thus further protecting public health and reducing operational costs. The Metropolitan Water District of Southern California approved the grant application, and the partnership with Carollo and Yokogawa is expected to provide valuable data-driven information for both the Tapia Water Reclamation Facility and Pure Water Demonstration Project that will far exceed the cost of the program. Staff recommends authorization to execute a professional services agreement with Carollo Engineers, Inc., to support the JPA's participation in the Future Supply Actions Funding Program in partnership with Yokogawa Electrical Corporation.

RECOMMENDATION(S):

Authorize the Administering Agent/General Manager to execute a professional services agreement with Carollo Engineers, Inc., in the amount of \$68,996, to administer a Future Supply Actions Funding Program grant from the Metropolitan Water District of Southern California for the Pure Water Demonstration Project and Tapia Water Reclamation Facility.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

No

FINANCIAL IMPACT:

The total cost of the work is \$69,996. Approved grant funds will cover 50% of the cost, resulting in a net cost to the JPA of \$34,498 for the remaining 50% match requirement. Sufficient funds are available in the adopted Fiscal Year 2019-20 JPA Budget for the work. The cost of the work will be allocated 70.6% to LVMWD and 29.4% to Triunfo Water & Sanitation District.

DISCUSSION:

In August 2018, the JPA and Carollo Engineers, Inc., collaborating with Yokogawa Electrical Corporation, submitted a grant application to the Metropolitan Water District of Southern California for its Future Supply Actions Funding Program. The grant requested funding to implement and test artificial intelligence (AI) and machine learning (ML) control algorithms as part of the Pure Water Demonstration Project. Additionally, the application included an evaluation of model predictive control (MPC) at the Tapia Water Reclamation Facility, specifically evaluating Yokogawa's innovative Data-Driven Modeling for Optimization (DDMO) to achieve cost-savings in the operation of the aeration basins.

The goal of the project is to determine if AI/ML could provide intelligent system controls that would increase the resiliency, reliability and efficiency of the Advanced Water Treatment Facility through an additional virtual barrier, thus further protecting public health and reducing operational costs. The Metropolitan Water District of Southern California approved the grant application, and the partnership with Carollo and Yokogawa is expected to provide valuable data-driven information for both the Tapia Water Reclamation Facility and Pure Water Demonstration Project that will far exceed the cost of the program.

The project will evaluate the potential cost-savings opportunity associated with intelligent industrial control platforms for the Pure Water Demonstration Project. Given that model control has not been attempted previously for a potable water reuse project, its application on a demonstration scale could allow the JPA to prove the efficacy of model predictive control (MPC) prior to moving to a full scale. Ultimately, MPC combined with analytics has the potential to optimize advanced water treatment facility (AWTF) operations, reducing operating costs (power, chemical, labor, in addition to enhancing the protection of public health through optimization of AWTF operations and reducing risks of process damage and upsets, increasing AWTF resiliency and reliability.

GOALS:

Construct, Manage and Maintain All Facilities and Provide Services to Assure System Reliability and Environmental Compatibility

Prepared by: Darrell Johnson, Water Systems Manager

ATTACHMENTS:

Scope and Budget for MWD Future Supply Actions Funding Program Grant
Yokogawa Commitment Letter

Mr. Darrell Johnson
Water Systems Manager
Las Virgenes Municipal Water District
djohnson@lvmwd.com

Subject: Carollo Proposal for Metropolitan Water District Artificial Intelligence Grant

Dear Darrell

In August of 2018, the Las Virgenes Municipal Water District (District) and Carollo submitted a grant application to the Metropolitan Water District (Metropolitan) under the Future Supply Actions Funding Program (**internal link:** [MWD_LVMWD-MWDFutureSupplyActionsFundPrgm-LP18.pdf](#)). The grant requested “funding to implement and test Artificial intelligence (AI)/Machine Learning (ML) control algorithms as part of the demonstration plant master control systems. The goal of this project is to determine if AI/ML could provide intelligent system control that would increase resilience and reliability of the new AWTF through additional virtual barrier, thus further protecting public health, and reducing operational costs and operator duties.” The grant application was approved by Metropolitan.

Since that original approval, work has been done and innovations have developed between Carollo, the Yokogawa Electric Corporation (Japan) and the National Water Research Institute (NWRI) related to this effort. This scope builds upon that progress and matches the recent (April 2020, **internal link:** [MWD AI Grant.doc](#)) contract agreement between the District and Metropolitan. Context on that past work is included below.

Context and Project Development

AI/ML is being implemented for dissolved oxygen (DO) control to optimize energy use for activated sludge secondary treatment systems (**internal link:** [2019 data driven performance analyses of WWTP.pdf](#)). The term most often used within this application is Model Predictive Control (MPC), which going forward is the term we intend to use for this project. MPC relies upon three key concepts for success, as shown below.

- Instrumentation Management (IM)
 - Provides predictive diagnostics on when we need to clean and calibrate the online probes.
 - Provide notifications when the instrument is out of specification (drift).
- Data Management (DM)
 - Collection and aggregation of data
 - Cleaning of data
 - Claros (and other MPC systems) can do DM.
- Process Management (PM)

- Real time control (RTC) on a process by process basis
- Requires the development of detailed programming on each treatment process and relevant monitoring system.

AI/ML, if properly programmed, could examine the system performance of potable water reuse treatment, from the perspective of both public health and cost-efficient operation (energy, chemicals, staff time). For today's potable reuse systems, the key processes operate in isolation, with set individual metrics for performance (and thus alarming and shutdown). Operations costs are periodic, with limited focus on how to balance operational efficiency and water quality performance for the entire combined system.

With the right data and programming the A/I for the AWPf of the future would:

- **Maintain Water Quality.** The focus would be on which processes (and monitoring systems) pose the largest public health risk, and prioritize the maintenance of such items.
- **Proactively Schedule Maintenance.** The focus would be upon which processes most impact operational costs, and prioritize the maintenance of such items.
- **Streamline Regulatory Review.** Through the use of a continuous evaluation of, and real-time reporting of, performance data, DDW can maintain greater confidence in operation while reducing the level of effort to prepare and review materials.
- **Reduce Operations Staff Time.** Directly the result of the three above items.

The project team for this proposed effort follows upon recent collaboration on AI between the government of Japan and engineering experts in the United States. That work, funded by the Japanese Ministry for Economy, Trade, and Industry (METI), was completed in January of 2020, and included the following team members and work efforts:

- Teams
 - Yokogawa Electric Corporation
 - National Water Research Institute
 - Orange County Water District
 - University of Tokyo
 - University of Arizona
 - Carollo Engineers, Inc.
- Work Completed to Date
 - AI for Secondary Process Optimization.
 - Yokogawa, working with Carollo, and funded by the Japanese Ministry of Economy Trade and Industry (METI), developed a process optimization model for the Tapia WRP that will reduce energy use and improve effluent quality and stability.
 - Titled DDMO, this model uses current process performance data to optimize operational controls to attain the listed benefits.

- The completed work was based upon one month of data using an older blower system. Tapia WRP has recently replaced the older blowers with more efficient blowers.
- The first phase of Data Driven Modeling for Optimization (DDMO) is complete and was presented to the LVMWD in January of 2020. That work was funded by METI. From that work we have learned that optimized process control of the Tapia WRF would likely result in:
 - ✓ Reduced air use for biological treatment, resulting in less energy used by the blowers for secondary treatment, estimated at 7.5% less air flow which correlates to a 3.8% power reduction (for the old blowers), resulting in an annual cost savings of \$19,000;
 - ✓ Improved denitrification, resulting in more reliable nitrate reduction and permit compliance; and
 - ✓ Marginally less ammonia reduction through the biological process, which is a benefit to Tapia allowing for potential reduction of subsequent ammonia dosing (and thus cost) for the chloramination practices.
- Phase 1 of DDMO was conducted based upon one month of data using older blowers. Recently, Tapia has replaced the old blowers with new magnetic high efficiency blowers, which has resulted in a substantial (25%) reduction in energy for the entire Tapia facility. The diffusers have also been converted to fine bubble. Since the upgrades, plant staff has noted that the water is substantially colder, in the range of 8 to 10 degrees F, which has impacted the biological process and clarification process performance. Accordingly, a three-step process is recommended, modeling the secondary process performance with the temperature change followed by a revised DDMO based upon a larger data set with the new blowers, followed by a re-assessment of the secondary process model.
- Near Real Time Monitoring of Pathogens
 - Yokogawa is developing a near real time (turnaround time of hours) pathogen monitoring system for potable reuse.
 - The system, called RAPID, would be an integral component of demonstrating water quality and treatment system performance.
 - Yokogawa is working with NWRI, OCWD, Carollo, Univ. of Tokyo, and Univ. of Arizona on a range of efforts related to RAPID, including new research, product development, and expert guidance.
 - The completed work documents the potentially large value for RAPID and a path toward successful implementation for potable reuse projects.

The proposed work for this new grant includes Carollo and Yokogawa, and is anticipated to include NWRI, OCWD, the University of Tokyo, and the University of Arizona, though the extent of inclusion of these other parties depends upon anticipated further funding from METI.

Scope of Work

The following scope of work is proposed for this new effort co-funded by the District and Metropolitan.

Task 1 - Model Predictive Control Analysis of the Tapia Water Reclamation Facility

The first task focuses upon the Tapia WRF, including:

- a. Evaluation of MPC for the Tapia WRF, looking specifically at DO based control, using the DDMO concept from Yokogawa, for the BNR basins and the cost savings that could be realized by MPC. Historical operating data will be provided by TWRF staff to Yokogawa for analysis. Data necessary for the MPC analysis includes BNR flow (primary effluent and RAS), raw ammonia and nitrate concentrations, secondary clarifier influent (or effluent) ammonia and nitrate concentrations, BNR DO, and blower data (number, horsepower, and type as well as operating data such as speed and airflow correlated to other operating data). The project team will analyze the operating data provided and will complete a report documenting methods to optimize control and energy use, including using DDMO and Biowin modeling.
- b. Following upon Task 1a above, two more analysis steps will be completed:
 - i. Based upon the results of the work described above, the project team will develop a control philosophy for the Tapia WRF. Recommendations may include additional instrumentation and control system modifications to optimize the processes previously evaluated. The cost savings for DO based MPC control, if implemented, would be an important energy offset to the future (large) AWWP.
 - ii. The Tapia WRF adds ammonia for chloramination of the reclaimed water, added upstream of the tertiary filters. The DDMO analysis will be conducted to refine nitrification so that ammonia is not regularly fed and chloramines could be formed with background ammonia from the process, resulting in lower cost reclaimed water operation.

Task 2 – Pathogen Based AWWP Control

The Demonstration Project will go into operation in May of 2020. Pathogen and treatment performance data will be collected over a nine-month period. Task 2 will begin once ~6 months of data have been collected, which will be in June or July of 2020. Task 2 includes:

- a. Evaluation of the underlying data set by LVMWD or specific consultants hired for this effort (which consultant to be used remains TBD). This evaluation will be done as part of other project efforts, and is thus an in-kind contribution to the project. The data sets include:
 - The development of pepper mild mottle virus (PMMoV) concentrations and removal by UF at the Demonstration Facility. This information will be developed as part of the existing Test Plan.
 - The development of an Operations and Maintenance Program to efficiently run the UF, RO, and UV AOP demonstration facility, with a focus on maximizing the

performance of each system. There is an O&M cost that will be determined based upon this approach.

- The development of a PMMoV monitoring analyzer by Yokogawa to be used after MF/UF, which allows for a near “real time” assessment of pathogen values after MF/UF. The analyzer called RAPID, will be developed over several years by Yokogawa, the University of Tokyo, and the University of Arizona.
 - The development of UF, RO, and UV AOP performance over a 6 to 9 month period, documenting the reliability of the three treatment processes for pathogen removal.
- b. This new funding from the District/Metropolitan will be applied to Task 2b. Based upon the information collected above, the safety margin between pathogen removal goals and measured pathogen concentrations will be calculated and coupled with the extensive treatment process performance over the test period. The project team will analyze the treatment and operations data to determine the optimum balance of energy use, chemical use, and operations time, while maintaining water quality that is protective of public health.
- c. This new funding from the District/Metropolitan will be applied to Task 2c. Following upon the recently completed NWRI effort with Yokogawa and METI, culminating in Tokyo with industry and government leadership in December of 2019, the project team will utilize the analyzed data to develop a control philosophy for Semi-Autonomous operation. This concept is the first step in Machine Learning for AWPf, documenting how an integrated “smart” control system can continuously document public health for the entire treatment and monitoring system while recommending methods to optimize operational efficiency and cost. Future steps (not scoped) will convert the conceptual philosophy into firm programming to demonstrate value for larger future systems for LVMWD and MWD.

Task 3 - Reporting

The reporting phase of the project will consist of final, complete data analysis to determine if the tasks above would measurably improve the efficiency of the WRF and AWPf. The following improvements (over baseline conditions) would be evaluated:

1. Reduced electrical consumption
2. Reduced chemical consumption
3. Reduced O&M staff burden
4. Reduced equipment use (and thus cost)

A draft report will be produced by the project engineering team and circulated amount District staff and Metropolitan for comments. Ultimately, a final report will be produced after incorporation of comments for issuance to Metropolitan and member agencies.

Further, on a quarterly basis, a ¼ report will be prepared by Carollo and submitted to the District and Metropolitan.

Schedule

Task/Subtask	Deliverables	Submittal Due Date
Task 1	Summary Memo - DDMO Analysis of Tapia WRF	9/1/2020
Task 2	Summary Memo – Semi-Autonomous Control Philosophy	2/1/2021
Task 3	Draft Final Report	6/1/2021

Cost

The total cost for this scope of work is \$68,996. Of this total fee, \$25,000 will be subcontracted to Yokogawa ([internal link: Yokogawa Commitment Letter.pdf](#)). Their commitment letter to this project is attached to this proposal letter.

Task No.	Task Description	Total Study Cost
1	DDMO Analysis of Tapia WRF	\$28,056
2	Semi-Autonomous Control Philosophy	\$29,228
3	Draft and Final Reports	\$12,710
Totals		\$68,996

Please contact me directly with any questions regarding this proposal. We are glad to continue to support the District.

Thank You

CAROLLO ENGINEERS, INC.



Andrew Salvesson, PE
 Vice President
 Water Reuse Practice Director

February 14th, 2020

Mr. Andrew Salveson, P.E.
Vice President
Water Reuse Practice Director
Carollo Engineers, Inc.
2700 Ygnacio Valley Road, Suite 300
Walnut Creek, California 94598, USA

Subject: Letter of Support for Carollo Engineers, Inc. – Subcontracting works to develop semi-autonomous advance water purification facility (AWPF) operation in Las Virgenes Municipal Water District (LVMWD) under Carollo Engineers, Inc.

Dear Andrew Salveson

We are very interested to support studies related to the Semi-Autonomous AWPF Operation in LVMWD and we are happy to engage in scopes hereunder:

1) Scope you described in latest document

Scope 1:

The collected information, after the completion of the Biowin model, would be provided to Yokogawa. DDMO would be re-run based upon the new data with the new blowers and diffusers. Yokogawa will analyze the operating data provided and will conduct an DDMO analysis to develop operational algorithms for the system. Carollo will review and evaluate the results of the analysis and provide feedback to MWD, District, and Yokogawa. The deliverables for this subtask are:

- a. Recommendations for blower set points to save energy over the analyzed period of time.
- b. Predictions of blower energy savings.
- c. Predictions of denitrification performance to improve permit compliance.
- d. Predictions in ammonia concentrations, allowing for less ammonia use for subsequent chloramination.

- e. DDMO implementation, in which DDMO controls would be programmed by Yokogawa for LVMWD, would be part of a future phase of work.

Scope 2:

Yokogawa will be provided the collected information above and develop a control philosophy (note, not a control program, which would be a future task) for Semi-Autonomous AWPf control. Carollo will review all Yokogawa conclusions. Deliverables for this task will include:

- a. Recommended operations and maintenance procedures and schedule for:
 - i. UF, RO, and UV AOP
 - ii. For respective online monitoring systems for the three listed processes
- b. Methods to reduce staff time while maintaining water quality and water production
- c. A comparison of staff time, chemical use, energy use, and water quality based upon different operational models.

- 2) Yokogawa's budget from Carollo for study effort (\$) with \$25,000.
- 3) Work would occur in 2020, possibly ending in late 2021.

We look forward to stepping forward together in LVMWD.

Sincerely,



Tsuyoshi Yakhara
General Manager, Innovation Center
Yokogawa Electric Corporation
2-9-32 Nakacho, Musashino-shi, Tokyo, 180-8750 Japan



Memorandum

To: Las Virgenes – Triunfo Joint Powers Authority
 From: Syrus Devers, Best Best & Krieger
 Date: April 27, 2020
 Re: Monthly State Political Report

Legislative Report

As of the time of this report, the Legislature still plans to reopen on May 4th. Obviously that is a tentative date, but with the first positive news emerging about the slowing of the spread of COVID-19 it is looking at least somewhat plausible. The only legislative activities in April were hearings on the fiscal impacts of COVID-19 response by the relevant budget subcommittees in each house. The Senate Special Budget Subcommittee on the COVID-19 Response met on Thursday, April 16, and the Assembly Budget Subcommittee met on Monday, April 20th. Both hearings were livestreamed with opportunities for virtual public participation. It took almost an hour for the Senate hearing to get started due to technical difficulties but the Assembly hearing went much smoother. The Assembly has indicated it will restart for limited meetings after May 4th, but the Senate and the Governor signaled that it is premature to set any hard dates while asking the public to continue with shelter in place.

The budget news was grim. Although entirely speculative due to the fact that tax deadlines are delayed, all indications are that the state is already in recession. The current plan is to approve a “baseline” budget, which only funds essential and mandatory budget obligations, and then make adjustments in August based on revenues.

Administrative Report

Governor Newsom held a briefing on Tuesday, April 14th to discuss a pact with Oregon and Washington on initial steps to open public spaces, businesses and schools. The briefing described a transition from social isolation to testing and contact tracing, but physical distancing will continue to be a part of the response. The transition, however, is entirely dependent on the availability of the products necessary to implement such a strategy.

On April 2nd the Governor issued an Emergency Executive Order prohibiting water shutoffs for nonpayment. The main points of the order are as follows:

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ATTORNEYS AT LAW

- Suspends the authority of public and private water systems to shutoff water service due to nonpayment. This applies to residents and businesses.
- Orders the restoration of service discontinued since March 4th.
- Specifies that water bills are still due in full.
- Authorizes the SWRCB to identify best practices to implement the order, but does not call for implementing regulations.

ACWA and CMUA met (virtually) with Chair Esquivel and staff to discuss best practices, such as shutoffs at the request of a property owner or landlord due to a vacancy.

Las Virgenes-Triunfo JPA

Bill matrix-4/16/2020

A. Priority Support/Oppose

Measure	Author	Topic	Status	Location	Brief Summary	Position
AB 1672	Bloom D	Solid waste: nonwoven disposable products.	1/30/2020-Read third time. Passed. Ordered to the Senate. In Senate. Read first time. To Com. on RLS. for assignment.	1/30/2020-S. RLS.	The California Integrated Waste Management Act of 1989, administered by the Department of Resources Recycling and Recovery, generally regulates the disposal, management, and recycling of solid waste. This bill would require, commencing January 1, 2021, except as provided, certain nonwoven disposal products to be labeled clearly and conspicuously to communicate that they should not be flushed, as specified. The bill would prohibit a covered entity, as defined, from making a representation about the flushable attributes, benefits, performance, or efficacy of those nonwoven disposal products, as provided.	Support
AB 2093	Gloria D	Public records: writing transmitted by electronic mail: retention.	3/10/2020-From committee: Do pass and re-refer to Com. on APPR. (Ayes 10. Noes 1.) (March 10). Re-referred to Com. on APPR.	3/10/2020-A. APPR.	Would, unless a longer retention period is required by statute or regulation, or established by the Secretary of State pursuant to the State Records Management Act, require a public agency, for purposes of the California Public Records Act, to retain and preserve for at least 2 years every public record, as defined, that is transmitted by electronic mail.	Out for Analysis
AB 2178	Levine D	Emergency services.	2/27/2020-Refer red to Com. on G.O.	2/27/2020-A. G.O.	Current law defines the terms “state of emergency” and “local emergency” to mean a duly proclaimed existence of conditions of disaster or of extreme peril to the safety of persons and property within the state caused by, among other things, fire, storm, or riot. This bill would additionally include a deenergization, defined as a planned public safety power shutoff, as specified, within those conditions constituting a state of emergency and a local emergency.	Out for Analysis
AB 2182	Rubio, Blanca D	Emergency backup generators: water and wastewater facilities: exemption.	3/16/2020-In committee: Hearing postponed by committee.	3/2/2020-A. U. & E.	Would exempt the operation of an alternative power source, as defined, to provide power to a critical facility, as defined, from any local, regional, or state regulation regarding the operation of that source. The bill would authorize providers of essential public services, in lieu of compliance with applicable legal requirements, to comply with the maintenance and testing procedure set forth in the National Fire Protection Association Standard for Emergency and Standby Power System, NFPA 110, for alternative power sources designated by the providers for the support of critical facilities.	Out for Analysis
AB 2296	Quirk D	State Water Resources Control Board:	3/17/2020-In committee: Hearing	2/24/2020-A. E.S. & T.M.	Would authorize the State Water Resources Control Board to delegate partial responsibility for the California Safe	Out for Analysis

		local primacy delegation: funding stabilization program.	postponed by committee.		Drinking Water Act's administration and enforcement by means of a local primacy delegation agreement. The bill would authorize the state board, for counties that have not been delegated primary responsibility as of January 1, 2021, to offer an opportunity for the county to apply for partial or primary responsibility if the state board determines that it needs assistance in performing administrative and enforcement activities, as specified. The bill would authorize the state board to approve the application for delegation if the state board determines that the local health officer is able to sufficiently perform the administrative and enforcement activities and would specify that a local primacy agency has all of the authority over designated public water systems as is granted to the state board by the act.	
AB 2560	Quirk D	Water quality: notification and response levels: procedures.	3/17/2020-In committee: Hearing postponed by committee.	3/12/2020-A. E.S. & T.M.	The California Safe Drinking Water Act requires the State Water Resources Control Board to adopt drinking water standards for contaminants in drinking water based upon specified criteria and requires any person who owns a public water system to ensure that the system, among other things, complies with those drinking water standards. The act requires a public water system to provide prescribed notices within 30 days after it is first informed of a confirmed detection of a contaminant found in drinking water delivered by the public water system for human consumption that is in excess of a maximum contaminant level, a notification level, or a response level established by the state board. This bill would require the state board to comply with specified public notice and comment and peer review procedures, as prescribed, when establishing or revising notification or response levels.	Out for Analysis
SB 45	Allen D	Wildfire Prevention, Safe Drinking Water, Drought Preparation, and Flood Protection Bond Act of 2020.	1/30/2020-In Assembly. Read first time. Held at Desk.	1/29/2020-A. DESK	Would enact the Wildfire Prevention, Safe Drinking Water, Drought Preparation, and Flood Protection Bond Act of 2020, which, if approved by the voters, would authorize the issuance of bonds in the amount of \$5,510,000,000 pursuant to the State General Obligation Bond Law to finance projects for a wildfire prevention, safe drinking water, drought preparation, and flood protection program.	Out for Analysis
SB 857	Bates R	Solid waste: integrated waste management plans: composting component.	1/22/2020-Referred to Com. on RLS.	1/14/2020-S. RLS.	Current law, the California Integrated Waste Management Act of 1989, administered by the Department of Resources Recycling and Recovery, establishes an integrated waste management program. The act requires each city to submit to the county in which the city is located a source reduction and recycling element containing specified components, including a composting component. This bill would make a nonsubstantive change to language concerning implementation of the composting component.	Out for Analysis

SB 996	Portantino D	State Water Resources Control Board: Constituents of Emerging Concern Program.	4/1/2020-From committee with author's amendments. Read second time and amended. Re-referred to Com. on EQ.	3/5/2020-S. E.Q.	Would require the State Water Resources Control Board to establish, maintain, and direct an ongoing, dedicated program called the Constituents of Emerging Concern Program to assess the state of information and recommend areas for further study on constituents of emerging concern in drinking water that may pose risks to public health. The bill would require the state board to establish the Stakeholder Advisory Group and, by an unspecified date, the Science Advisory Panel, both as prescribed, to assist in the gathering and development of information for the program, among other functions. The bill would require the program to provide opportunities for public participation, including conducting stakeholder meetings and workshops to solicit relevant information and feedback for development and implementation of the program.	Out for Analysis
SB 1052	Hertzberg D	Water quality: municipal wastewater agencies.	3/18/2020-April 1 hearing postponed by committee.	2/27/2020-S. E.Q.	Would establish municipal wastewater agencies and would authorize a municipal wastewater agency, among other things, 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.	Out for Analysis
SB 1099	Dodd D	Emergency backup generators: critical facilities: exemption.	3/18/2020-April 1 hearing postponed by committee.	2/27/2020-S. E.Q.	Would, consistent with federal law, require air districts to adopt a rule, or revise its existing rules, to allow critical facilities with a permitted emergency backup generator to use that emergency backup generator during a deenergization event or other loss of power, and to test and maintain that emergency backup generator, as specified, without having that usage, testing, or maintenance count toward that emergency backup generator's time limitation on actual usage and routine testing and maintenance. The bill would prohibit air districts from imposing a fee on the issuance or renewal of a permit issued for those critical facility emergency backup generators.	Support
SB 1386	Moorlach R	Local government: assessments, fees, and charges: water.	4/1/2020-From committee with author's amendments. Read second time and amended. Re-referred to	2/21/2020-S. RLS.	The Proposition 218 Omnibus Implementation Act prescribes specific procedures and parameters for local jurisdictions to comply with these requirements and, among other things, authorizes an agency providing water, wastewater, sewer, or refuse collection services to adopt a schedule of fees or	Out for Analysis

			Com. on RLS.		charges authorizing automatic adjustments that pass through increases in wholesale charges for water, sewage treatment, or wastewater treatment or adjustments for inflation under certain circumstances. Current law defines, among other terms, the term “water” for these purposes to mean any system of public improvements intended to provide for the production, storage, supply, treatment, or distribution of water from any source. This bill would specify that “water” for purposes of the Proposition 218 Omnibus Implementation Act also includes the public fixtures, appliances, and appurtenances connected to an above-described system of public improvements intended to provide for the production, storage, supply, treatment, or distribution of water from any source.	
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B. Watch

Measure	Author	Topic	Status	Location	Brief Summary	Position
AB 291	Chu D	Local Emergency Preparedness and Hazard Mitigation Fund.	1/30/2020-Read third time. Passed. Ordered to the Senate. In Senate. Read first time. To Com. on RLS. for assignment.	1/30/2020-S. RLS.	Would establish a Local Emergency Preparedness and Hazard Mitigation Fund to, upon appropriation by the Legislature, support staffing, planning, and other emergency mitigation priorities to help local governments meet emergency management, preparedness, readiness, and resilience goals. The bill would require the Office of Emergency Services to establish the Local Emergency Preparedness and Hazard Mitigation Fund Committee under the Standardized Emergency Management System Advisory Board.	Out for Analysis
AB 1839	Bonta D	Climate change: California Green New Deal.	1/7/2020-From printer. May be heard in committee February 6.	1/6/2020-A. PRINT	Current law establishes various environmental and economic policies. This bill would create the California Green New Deal Council with a specified membership appointed by the Governor. The bill would require the California Green New Deal Council to submit a specified report to the Legislature no later than January 1, 2022. The bill also would make various findings and declarations.	Watch
AB 1957	Gallagher R	Paradise Irrigation District: water pipeline: design-build process.	2/18/2020-Re-referred to Com. on L. GOV.	1/30/2020-A. L. GOV.	Current law authorizes, until January 1, 2025, local agencies, as defined, to use the design-build project delivery process, as specified, for specified public works. This bill would authorize the Paradise Irrigation District to utilize the design-build project delivery process to assign contracts for the construction of a water conveyance pipeline from the Town of Paradise to the City of Chico.	Watch
AB 2095	Cooper D	Water theft: enhanced penalties.	3/16/2020-In committee: Hearing postponed by committee.	2/20/2020-A. L. GOV.	Current law authorizes the legislative body of a city or a county to make, by ordinance, any violation of an ordinance subject to an administrative fine or penalty and limits the maximum fine or penalty amounts for infractions, to \$100 for the first violation, \$200 for a 2nd violation of the same	Out for Analysis

					ordinance within one year of the first violation, and \$500 for each additional violation of the same ordinance within one year of the first violation. This bill would authorize the legislative body of a city or a county to make, by ordinance, any violation of an ordinance regarding water theft, as defined, subject to an administrative fine or penalty in excess of the limitations above, as specified.	
AB 2322	Friedman D	Small water suppliers and rural communities: drought and water shortage planning: repeal.	2/15/2020-From printer. May be heard in committee March 16.	2/14/2020-A. PRINT	Current law makes legislative findings and declarations regarding drought planning for small water suppliers and rural communities, and requires the Department of Water Resources, in consultation with the State Water Resources Control Board and other relevant state and local agencies and stakeholders, to use available data to identify, no later than January 1, 2020, small water suppliers and rural communities that may be at risk of drought and water shortage vulnerability and notify counties and groundwater sustainability agencies of those suppliers or communities. Current law requires the department, in consultation with the state board, to propose to the Governor and the Legislature, by January 1, 2020, recommendations and guidance relating to the development and implementation of countywide drought and water shortage contingency plans to address the planning needs of small water suppliers and rural communities, as provided. This bill would repeal these provisions.	Watch
AB 2324	Friedman D	Urban water use.	2/15/2020-From printer. May be heard in committee March 16.	2/14/2020-A. PRINT	Current law requires the Department of Water Resources, in coordination with the State Water Resources Control Board, to conduct necessary studies and investigations, as prescribed, and make a recommendation to the Legislature, by January 1, 2020, on the feasibility of developing and enacting water loss reporting requirements for urban wholesale water suppliers. This bill would repeal these provisions.	Watch
AB 3256	Garcia, Eduardo D	Climate risks: bond measure.	2/24/2020-Read first time.	2/21/2020-A. PRINT	The California Drought, Water, Parks, Climate, Coastal Protection, and Outdoor Access For All Act of 2018, approved by the voters as Proposition 68 at the June 5, 2018, statewide direct primary election, authorizes the issuance of bonds in the amount of \$4,000,000,000 pursuant to the State General Obligation Bond Law to finance a drought, water, parks, climate, coastal protection, and outdoor access for all program. This bill would state the intent of the Legislature to enact a bond measure that would address climate risks to the State of California.	Out for Analysis
SB 378	Wiener D	Electrical corporations: deenergization events: procedures: allocation of	1/27/2020-Read third time. Passed. (Ayes 25. Noes 2.) Ordered to the Assembly. In	1/27/2020-A. DESK	Would require each electrical corporation to annually submit a report to the Wildfire Safety Division and, after June 30, 2021, to the Office of Energy Infrastructure Safety, that includes the age, useful life, and condition of the electrical corporation's	Watch

		costs: reports.	Assembly. Read first time. Held at Desk.		equipment, inspection dates, and maintenance records for its equipment, investments to maintain and improve the operation of its transmission and distribution facilities, and an assessment of the current and future fire and safety risk posed by the equipment.	
SB 862	Dodd D	Planned power outage: public safety.	3/19/2020-March 31 hearing postponed by committee.	1/29/2020-S. E. U., & C.	Current law defines the terms “state of emergency” and “local emergency” to mean a duly proclaimed existence of conditions of disaster or of extreme peril to the safety of persons and property within the state caused by, among other things, fire, storm, or riot. This bill would additionally include a deenergization event, as defined, within a sudden and severe energy shortage constituting a state of emergency and a local emergency.	Out for Analysis
SB 931	Wieckowski D	Local government meetings: agenda and documents.	4/2/2020-From committee with author's amendments. Read second time and amended. Re-referred to Com. on GOV. & F.	2/12/2020-S. GOV. & F.	The Ralph M. Brown Act requires meetings of the legislative body of a local agency to be open and public and also requires regular and special meetings of the legislative body to be held within the boundaries of the territory over which the local agency exercises jurisdiction, with specified exceptions. Current law authorizes a person to request that a copy of an agenda, or a copy of all the documents constituting the agenda packet, of any meeting of a legislative body be mailed to that person. This bill would require, if the local agency has an internet website, a legislative body or its designee to email a copy of, or website link to, the agenda or a copy of all the documents constituting the agenda packet if the person requests that the items be delivered by email. The bill would require, where the local agency determines it is technologically infeasible to send a copy of all documents constituting the agenda packet or a website link containing the documents by electronic mail or by other electronic means, the legislative body or its designee to send by electronic mail a copy of the agenda or a website link to the agenda and mail a copy of all other documents constituting the agenda packet in accordance with the mailing requirements.	Out for Analysis
SB 952	Nielsen R	Sales and use taxes: exemption: backup electrical resources: deenergization events.	2/20/2020-Referred to Com. on GOV. & F.	2/20/2020-S. GOV. & F.	Current state sales and use tax laws impose a tax on retailers measured by the gross receipts from the sale of tangible personal property sold at retail in this state or on the storage, use, or other consumption in this state of tangible personal property purchased from a retailer for storage, use, or other consumption in this state. The Sales and Use Tax Law provides various exemptions from those taxes. This bill, on and after January 1, 2021, would provide an exemption from those taxes with respect to the sale of, or the storage, use, or consumption of, a backup electrical resource, as defined, that is purchased for exclusive use by a city, county, special district, or other entity of local	Watch

					government during deenergization events, as defined.	
SB 971	Hertzberg D	Small water supplier and countywide water shortage contingency planning.	3/16/2020-March 24 hearing postponed by committee.	2/20/2020-S. N.R. & W.	Would require a small water supplier, as defined, with 1,000 to 2,999 service connections, inclusive, to prepare and adopt a small water supplier water shortage contingency plan that consists of specified elements. The bill would require a small water supplier with 15 to 999 service connections, inclusive, to take specified actions related to water shortage planning and response. The bill would require small water suppliers to provide to the public, and to report, the plan and specified water shortage planning information, as prescribed.	Out for Analysis
SB 1011	Dahle R	Water quality: waste discharge requirements: management agency agreements.	3/25/2020-From committee with author's amendments. Read second time and amended. Re-referred to Com. on RLS.	2/14/2020-S. RLS.	Would provide that implementation of a management agency agreement entered into between the State Water Resources Control Board and the United States Forest Service or the state board and the United States Bureau of Land Management constitutes compliance by the United States Forest Service or the United States Bureau of Land Management, as applicable, with specified waste discharge requirements for nonpoint source discharges. The bill would prohibit a provision of such a management agency agreement from being construed in any way as limiting the authority of the state board or a regional board in carrying out its legal responsibilities for the management or regulation of water quality.	Out for Analysis
SB 1044	Allen D	Firefighting equipment and foam: PFAS chemicals.	3/18/2020-April 1 hearing postponed by committee.	2/27/2020-S. E.Q.	Would, commencing January 1, 2022, require any person, including a manufacturer, as defined, that sells firefighter personal protective equipment to any person or public entity to provide a written notice to the purchaser at the time of sale if the firefighter personal protective equipment contains perfluoroalkyl and polyfluoroalkyl substances (PFAS), and would provide that a violation of this requirement is punishable by a specified civil penalty. The bill would require the seller and the purchaser to retain the notice on file for at least 3 years and to furnish the notice and associated sales documentation to the State Fire Marshal within 60 days upon request, as provided.	Out for Analysis
SB 1056	Portantino D	Drinking water: testing: perfluoroalkyl and polyfluoroalkyl substances.	3/18/2020-April 1 hearing postponed by committee.	2/27/2020-S. E.Q.	Would require the State Water Resources Control Board, on or before January 1, 2022, to certify a methodology or methodologies for testing drinking water, groundwater, and surface water for perfluoroalkyl and polyfluoroalkyl substances, as provided, and to accredit qualified laboratories in California to analyze perfluoroalkyl and polyfluoroalkyl substances pursuant to the adopted methodology or methodologies.	Out for Analysis

Total Measures: 27

Total Tracking Forms: 27



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To: Las Virgenes-Triunfo JPA Board of Directors
From: John Freshman and Ana Schwab
Date: April 27, 2020
RE: Federal Report

Federal Update

Congress is continuing to work on COVID-19 relief packages to assist states, local governments, businesses, and Americans as they cope with the pandemic's impact. Thus far, Congress has passed four COVID-19 response measures and allocated nearly \$4 trillion to combat the disease and aid the economy. As of last week, 26.5 million workers have filed unemployment claims; comparatively, during the 2008 financial crisis, 15.3 Americans were unemployed.

Today, the Small Business Administration restarted its coronavirus relief loan program, the Paycheck Protection Program, for small businesses with an additional \$310 billion in funding. The first round of funding was exhausted in 13 days. A difference in this round of funding is that the SBA will cap the value of loans individual banks can arrange under the relief program for small businesses. The goal is to ensure that more small, mom-and-pop shop businesses receive funding instead of larger businesses that still qualify under the perimeters.

The House of Representatives and the Senate both plan to be in session next week, beginning May 4. Both congressional bodies will reconvene with a focused effort on COVID-19 response and mitigation efforts as states begin to relax travel and shelter-at-home restrictions.

Senate Majority Leader Mitch McConnell indicated that future packages will provide state and local funding. House Speaker Nancy Pelosi and other democratic leaders are pushing for further financial relief to state, local governments, and public agencies, increasing coronavirus testing, and providing more financial assistance to millions of Americans who are now unemployed. There are also discussions of another round of direct cash payments to Americans and a similar benefit for small businesses in upcoming months. Both sides of the aisle are committed to combatting the virus and lessening the impact the shutdown will have on the U.S. economy.

Water Infrastructure Bills

The Senate Committee on Environment and Public Works (EPW) is working in a bipartisan fashion on two water infrastructure bills, which together would invest \$19.5 billion in the country's water infrastructure. The committee is taking written comments from stakeholders. The bill builds off of the progress made from the committee's water infrastructure legislation, America's Water Infrastructure Act, which was signed by President Trump in 2018.



One of the bills, America’s Water Infrastructure Act of 2020 (AWIA 2020) would aim to address infrastructure needs such as, increasing water storage, providing flooding protection, and funding wastewater and irrigation systems repairs, along with other measures.

The other bill, Drinking Water Infrastructure Act of 2020, would aim to help communities, particularly small, rural communities, address drinking water needs. The bill includes \$300 million per fiscal year through 2024 to address cleanup of contaminants, such as PFAS.

Written comments from stakeholders shall each be electronically submitted as a single file in PDF format to the Committee at QFR@epw.senate.gov no later than 4 p.m. (ET) on Friday, May 1, 2020 . Written comments shall include a contact name, mailing address, email address, and phone number. Written comments that do not comply with each of these requirements will not be accepted.

EPA and Army Corps of Engineers – WOTUS rule

Last week, the Federal Register published the Environmental Protection Agency and the Army Corps of Engineers long awaited, final rule establishing a new definition of “Waters of the United States.” The rule is set to take effect 60 days after its publication, on June 22.

The new rule, called the “Navigable Waters Protection Rule: Definition of Waters of the U.S.,” will narrow the scope of the Federal jurisdiction and protections under the Clean Water Act. The rule will replace the 2015 “Clean Water Rule” that was issued by the Obama Administration and then repealed in December 2019.

The rule will effect public agencies, private property owners, and other sectors within the infrastructure, water , and agricultural sectors. The new rule would remove protections from a majority of the country’s wetlands and 18% of its streams.

Democratic-led states, including California, and coalitions of environmental groups indicated they would challenge the new rule in court. Lawsuits are expected to be filed within the upcoming months.

County of Maui v. Hawai’i Wildlife Fund Decision

Below is the text of the legal alert that BB&K published on the United States Supreme Court decision on *County of Maui v. Hawai’i Wildlife Fund*:

The Supreme Court announced a 6-3 decision in the case of *County of Maui v. Hawai’i Wildlife Fund*. The decision involves whether a federal permit is required under the Clean Water Act when pollutants flow through groundwater before reaching surface waters that are subject to regulation under the Act. The Court held that a permit is required when the discharge to groundwater is the “functional equivalent of a direct discharge” to surface waters.



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The Court identified time and distance as the primary factors for determining whether a discharge is the “functional equivalent” of a direct discharge, but also cited a number of other factors that would be material to a decision, including:

- the nature of the material through which the pollutants travels,
- the extent to which the pollutant is diluted or chemically changed as it travels,
- the amount of pollutant entering the navigable waters relative to the amount of the pollutant that leaves the point source, the manner by, or area in which, the pollutant enters the navigable waters and the degree to which the pollution (at that point) has maintained its specific identity.

The Court’s decision does not provide a clear answer for when discharges through groundwater require a permit. It does, however, establish a national standard. The “functional equivalent” test is the third standard that has been applied in the Maui case. At the District Court level, the court held that a discharge to groundwater would require a permit if the groundwater acted as conduit and conveyed the discharge to surface waters. The U.S. Ninth Circuit Court of Appeals held that a discharge would require a permit if it was fairly traceable to the original point source. Other circuits adopted alternative standards. “Functional equivalent” is now the law nationally.

The decision can be characterized as a win for Maui because it narrowed the Ninth Circuit’s rationale. Nonetheless the multi-part test adopted by the Court leaves dischargers in a difficult situation. Facilities and infrastructure that have a connection to groundwater may now require federal Clean Water Act permits if pollutants from those facilities flow through groundwater to surface waters. The rationale implicates pipelines that may leak, infiltration basins that have a groundwater connection, and stormwater-related low impact development projects and green infrastructure – among other things.

The Court recognized the difficulty of determining when a permit is required under the “functional equivalent” test and admonished district judges to “exercise their discretion” and “mitigate hardship or injustice when they apply the statute’s penalty provision” in light of “the complexities inherent to the context of indirect discharges through groundwater....” This direction to lower courts may temper an expansive application of the test and its impact on dischargers that were not previously required to obtain a permit. It is also worth noting that the Court viewed the “functional equivalent” test as being more limited than the “fairly traceable” test adopted by the Ninth Circuit.

Final Rule - 85 FR 22250 The Navigable Waters Protection Rule: Definition of “Waters of the United States”

The Environmental Protection Agency and the Department of the Army are publishing a final rule defining the scope of waters federally regulated under the Clean Water Act. The Navigable Waters Protection Rule is the second step in a comprehensive, two-step process intended to review and revise the definition of “waters of the United States” consistent with the Executive Order signed on February 28, 2017, “Restoring the Rule of Law, Federalism, and Economic



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Growth by Reviewing the “Waters of the United States” Rule.” Once effective, it replaces the rule published on October 22, 2019. This final rule implements the overall objective of the Clean Water Act to restore and maintain the integrity of the nation's waters by maintaining federal authority over those waters that Congress determined should be regulated by the Federal government under its Commerce Clause powers, while adhering to Congress' policy directive to preserve States' primary authority over land and water resources. This final definition increases the predictability and consistency of Clean Water Act programs by clarifying the scope of “waters of the United States” federally regulated under the Act.