

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

4232 Las Virgenes Road, Calabasas, CA 91302

CLOSING TIME FOR AGENDA IS 8:30 A.M. ON THE TUESDAY PRECEDING THE MEETING. GOVERNMENT CODE SECTION 54954.2 PROHIBITS TAKING ACTION ON ITEMS NOT ON POSTED AGENDA UNLESS AN EMERGENCY, AS DEFINED IN GOVERNMENT CODE SECTION 54956.5 EXISTS OR UNLESS OTHER REQUIREMENTS OF GOVERNMENT CODE SECTION 54954.2(B) ARE MET.

5:00 PM

April 3, 2017

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

A Minutes: Regular Meeting of February 6, 2017 and Special Meeting of February 23, 2017 (Pg. 3)

5 ILLUSTRATIVE AND/OR VERBAL PRESENTATION AGENDA ITEMS

A Pure Water Project Las Virgenes-Triunfo: Update

6 ACTION ITEMS

A Infrastructure Investment Plan: Fiscal Years 2017-18 through 2020-21 (Pg. 17)
Receive and file the Infrastructure Investment Plan for Fiscal Years 2017-18 through 2020-21.

B Rancho Las Virgenes Raw Sludge Wet Well Recirculation Modifications: Reject All Bids (Pg. 82)

Reject all bids for the Rancho Las Virgenes Raw Sludge Wet Well Recirculation Modifications Project and authorize a new Call for Bids based on a revised bid package.

C Agreements Associated with Triunfo Sanitation District's Acquisition of Recycled Water System Facilities in Ventura County from Calleguas Municipal Water District (Pg. 85)

Authorize the Administrating Agent/General Manager to execute the *Agreement Terminating Agreement Regarding Purchase of Wholesale Reclaimed Water, Assignment & Assumption of Obligations under Memorandum of Understanding, and Consent* to facilitate Triunfo Sanitation District's acquisition of the Oak Park/North Ranch and Lake Sherwood recycled water system facilities in Ventura County from Calleguas Municipal Water District.

7 BOARD COMMENTS

8 ADMINISTERING AGENT/GENERAL MANAGER REPORT

9 FUTURE AGENDA ITEMS

10 INFORMATION ITEMS

A Rancho Las Virgenes Composting Facility: Biofilter Maintenance (Pg. 129)

B Rancho Las Virgenes Composting Facility: Contract Award for Amendment Supply (Pg. 130)

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

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

Las Virgenes-Triunfo Joint Powers Authority v. United States Environmental Protection Agency

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

February 6, 2017

PLEDGE OF ALLEGIANCE

The Pledge of Allegiance to the Flag was led by Vickie Dragan.

1. CALL TO ORDER AND ROLL CALL

The meeting was called to order at **5:00 p.m.** by Chair Glen Peterson in the Board Room at Las Virgenes Municipal Water District headquarters at 4232 Las Virgenes Road in Calabasas, California. Josie Guzman, Clerk of the Board, conducted the roll call.

Present: Director(s): Caspary, Iceland, Lewitt, Orkney, Pan, Paule, Peterson, Polan, Renger, and Wall.

Absent: Director(s): None.

2. CHAIR/VICE CHAIR**A Annual Transition of JPA Chair and Vice Chair**

The JPA Board transitioned its officers with Triunfo Sanitation District Director James Wall as Chair and Las Virgenes Municipal Water District Director Glen Peterson as Vice Chair of the Las Virgenes – Triunfo Joint Powers Authority for calendar year 2017.

B Welcome TSD Director Susan Pan to JPA Board of Directors

Chair Wall introduced Director Susan Pan, who was recently appointed to the Triunfo Sanitation District (TSD) Board following the resignation of Director Michael McReynolds. Director Pan stated that she was looking forward to working with the JPA Board.

3. APPROVAL OF AGENDA

Director Iceland moved to approve the agenda. Motion seconded by Director Peterson. Motion carried unanimously.

4. PUBLIC COMMENTS

None.

5. CONSENT CALENDAR

A Minutes: Regular Meeting of January 3, 2017

B Budget Planning Calendar for Fiscal Year 2017-18

Receive and file the Budget Planning Calendar for Fiscal Year 2017-18.

Director Peterson moved to approve the Consent Calendar as presented. Motion seconded by Director Paule. Motion carried unanimously.

6. ACTION ITEMS

A Financial Review: Second Quarter of Fiscal Year 2016-17

Receive and file the financial review for the second quarter of Fiscal Year 2016-17.

Angela Saccareccia, Finance Manager, provided a PowerPoint presentation. She responded to questions related to the increase in operating expenditures, reductions in revenues due to decreased recycled water sales, and fixed operating expenses.

Director Caspary moved to approve Item 6A. Motion seconded by Director Renger. Motion carried unanimously.

B Rancho Las Virgenes Raw Sludge Wet Well Recirculation Pump Modification Project: CEQA Determination and Call for Bids

Find that the work is exempt from the California Environmental Quality Act and approve the issuance of a Call for Bids for the Rancho Las Virgenes Raw Sludge Wet Well Recirculation Pump Modifications Project.

Administering Agent/General Manager David Pedersen presented the report. He responded to a question related to restoring redundancy to the digester pump system with the new pump system.

Brett Dingman, Water Reclamation Manager, responded to questions regarding the capacities of the wet wells and pumps by stating that the three wet wells have capacity of 33,000, 20,000, and 15,000 gallons, and one of the pumps has a capacity of approximately 250 gallons per minute. He noted there are two pumps

for raw sludge, one pump for centrate, and two pumps for feeding the centrifuges.

Director Peterson moved to approve Item 6B. Motion seconded by Director Orkney. Motion carried unanimously.

C Tapia Water Reclamation Facility Primary Clarifier Nos. 2 and 3 Rehabilitation Project: Final Acceptance

Execute a Notice of Completion and have the same recorded; extend the contract duration by 37 calendar days; authorize the Administering Agent/General Manager to approve a change of scope for inspection services, in the amount of \$2,881.50; and, in the absence of claims from subcontractors and others, release the retention, in the amount of \$37,438.20, within 30 calendar days after filing the Notice of Completion for the Tapia Water Reclamation Facility Primary Clarifier Nos. 2 and 3 Rehabilitation Project.

Administering Agent/General Manager David Pedersen presented the report.

John Zhao, Principal Engineer, responded to a question regarding inspecting the coatings for potential warranty claims by stating that staff would schedule regular coating inspections and document any distress that may occur.

Director Renger moved to approve Item 6C. Motion seconded by Director Lewitt. Motion carried unanimously.

D Pure Water Project Las Virgenes-Triunfo: Award of Modeling of Las Virgenes Reservoir Related to Indirect Potable Reuse Using Surface Water Augmentation

Accept the proposal from Trussell Technologies, Inc., and authorize the Administering Agent/General Manager to execute a professional services agreement, in the amount of \$279,678, for modeling of Las Virgenes Reservoir related to indirect potable reuse using surface water augmentation.

Administering Agent/General Manager David Pedersen presented the report.

Bryan Trussell, representing Trussell Technologies, responded to a question regarding the composition of the Independent Advisory Panel by stating that the panel would consist of academics or experts in various fields such as treatment, public policy, or public health.

Director Pan suggested obtaining the names, curriculum vitae, and résumés from individuals who would serve on the Independent Advisory Panel.

Mr. Trussell explained the process for collecting data for reservoir operations in order to determine baseline conditions and identify areas where the regulations may not be met. He also addressed reviewing current meteorological data from the weather stations.

Administering Agent/General Manager David Pedersen responded to a question regarding authorizing the expenditure for the Independent Advisory Panel by stating that staff was proposing that this expenditure be included in the contract as an optional task but not to proceed until after the Board has provided authorization to move forward.

Mr. Trussell responded to a question regarding gathering data from the weather stations by stating that his staff would obtain as much regional data as is available in terms of wind patterns. He also responded to a question regarding bringing in an Independent Advisory Panel by stating that having such a panel of experts would assist the State in gaining a level of comfort and familiarity with the project.

John Mathews, Legal Counsel, noted that it would be helpful from an outreach standpoint to demonstrate that the project has been reviewed by an Independent Advisory Panel.

Mr. Trussell responded to a question regarding conducting computer modeling rather than a tracer study by stating that a tracer study would be conducted once the project is implemented. He explained that the tracer study would demonstrate that the mixing is occurring as specified in the computer modeling.

Director Paule moved to approve Item 6D, including the optional task for an Independent Advisory Panel and waiting to proceed until the Board provides authorization to move forward with this task. Motion seconded by Director Polan. Motion carried unanimously.

E Pure Water Project Las Virgenes-Triunfo: Award of Advanced Water Treatment Plant Preliminary Siting Study

Accept the proposal from RMC Water and Environment, a Woodward & Curran Company, and authorize the Administering Agent/General Manager to execute a professional services agreement, in the amount of \$157,648, for an advanced water treatment plant preliminary siting study.

Administering Agent/General Manager David Pedersen presented the report.

Director Orkney expressed concern with identifying viable sites due to the County of Ventura's Save Open Space and Agricultural Resources (SOAR) initiatives and the fact that the County of Ventura is in the process of updating its General Plan. She suggested having a local real estate professional assist with identifying

potential sites. Administering Agent/General Manager David Pedersen noted that the consulting team would include an individual knowledgeable in right-of-way and real estate acquisition services. He stated that staff would share information with the consulting team, so they may become familiar with the local area.

Brian Dietrick, representing RMC Water and Environment, explained the proposed methodology for the two workshops that would cover the project kickoff and screening process.

Director Pan suggested potential cost sharing with the City of Thousand Oaks due to the proximity of the City.

Director Peterson moved to approve Item 6E. Motion seconded by Director Caspary. Motion carried by the following vote:

AYES: Caspary, Iceland, Lewitt, Pan, Paule, Peterson, Polan, Renger, Wall

NOES: Orkney

ABSTAIN: None

ABSENT: None

7. **BOARD COMMENTS**

Director Paule inquired whether the JPA Board would meet on March 6th because several of the Boardmembers would be in Washington DC meeting with elected officials for lobbying efforts. Administering Agent/General Manager David Pedersen responded that staff would propose cancelling the March 6th meeting due to the lack of a quorum. It was the unanimous consent of the Board to cancel the March 6, 2017 Board meeting.

Director Iceland inquired whether staff would be assembling facts and figures for the lobbying efforts in Washington D.C. Administering Agent/General Manager David Pedersen referred to Item 10A and noted that staff was proposing to provide a legislative handout for the meetings with elected officials and their staff.

Director Paule noted that one of the frequently asked questions is how much purified recycled water would be produced, and he requested that this information be included in the legislative handout. Administering Agent/General Manager David Pedersen responded that the JPA would produce approximately 5,000 acre-feet of purified recycled water, and staff would look into including this information in a future version of the legislative handout.

Director Orkney stated she was pleased to see Administering Agent/General Manager David Pedersen, Public Affairs and Communications Manager Jeff Reinhardt, and Las Virgenes Directors at the California Association of Sanitation Agencies (CASA) Winter Conference.

Director Caspary congratulated the TSD Board on appointing Director Susan Pan to their Board.

8. ADMINISTERING AGENT/GENERAL MANAGER REPORT

Administering Agent/General Manager David Pedersen reminded the Board of the February 23, 2017 special meeting for a workshop to discuss institutional issues related to the Pure Water Project Las Virgenes-Triunfo. He noted that Directors Lewitt and Wall hosted the Quarterly Wastewater Treatment and Recycling Tour on February 4th, which was attended by 23 people. He also noted that a copy of the comment letter to the State Water Resources Control Board in support of the TMDL Implementation Plan was provided to the Board. He reported that 2.41 inches of rain was recorded at the Tapia Water Reclamation Facility for the period of February 2nd to February 6th, the current peak flow was 13.8 million gallons per day (mgd), and Malibu Creek flows reached approximately 480 cubic feet per second (cfs).

9. FUTURE AGENDA ITEMS

None.

10. INFORMATION ITEMS

A Pure Water Project Las Virgenes-Triunfo: Draft Public Outreach Plan and Legislative Handout

Director Paule requested that the legislative handout include the history and background of the project.

Administering Agent/General Manager David Pedersen noted that Director Orkney had suggested making the photographs brighter and improving the readability.

11. PUBLIC COMMENTS

None.

12. CLOSED SESSION

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

1. Las Virgenes - Triunfo Joint Powers Authority v. United States Environmental Protection Agency and Heal the Bay, Inc. v. Lisa P. Jackson (TMDL cases)

2. Las Virgenes – Triunfo Joint Powers Authority v. United States Environmental protection Agency (FOIA case)

The Board recessed to Closed Session at **5:57 p.m.** and reconvened to Open Session at **6:17 p.m.**

Authority Counsel Steven O'Neill reported that an update was provided for Closed Session Item 12A2 with no formal action taken. No update was provided for Closed Session Item 12A1.

13. ADJOURNMENT

Seeing no further business to come before the Board, the meeting was duly adjourned at **6:18 p.m.**

James Wall, Chair

ATTEST:

Glen Peterson, Vice Chair

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

5:00 PM

February 23, 2017

PLEDGE OF ALLEGIANCE

The Pledge of Allegiance to the Flag was led by Chair James Wall.

1. CALL TO ORDER AND ROLL CALL

The meeting was called to order at **5:00 p.m.** by Chair James Wall in the Board Room at Las Virgenes Municipal Water District headquarters at 4232 Las Virgenes Road in Calabasas, California. Josie Guzman, Clerk of the Board, conducted the roll call.

Present: Directors: Caspary, Iceland (arrived at 5:02 p.m.), Lewitt, Orkney, Pan, Paule, Peterson, Polan, Renger, and Wall

Absent: None

2. PUBLIC COMMENTS

Leon Shapiro, Co-Chair of the Sierra Club of California Water Reuse Subcommittee, spoke in support of indirect potable reuse and direct potable reuse, and commended the JPA Board on their efforts to implement an indirect potable reuse project.

3. RANCHO LAS VIRGENES COMPOSITING FACILITY SWITCHGEAR FAILURE: DECLARATION OF EMERGENCY

Declare the failure of the switchgear at the Rancho Las Virgenes Composting Facility an emergency requiring immediate action without delay and authorize the Administering Agent/General Manager to procure the goods and services necessary for temporary operations and permanent repairs.

Administering Agent/General Manager David Pedersen provided introductory remarks regarding the recent storm damage at the Rancho Las Virgenes Composting Facility.

Larry Miller, Water Systems/Facilities Manager, provided a PowerPoint presentation showing the damage caused by the storm event of February 17 through 21, 2017, including impacts at the Tapia Water Reclamation Facility and

Malibu Creek, the sewer at Malibou Lake, and the Rancho Composting Plant's 16 kV sub-station. He discussed the failure of the switchgear at the Rancho Las Virgenes Composting Facility, which caused a temporary loss of power, and noted that an emergency generator was brought in to move the sludge to and from the digesters pending the completion of permanent repairs.

Administering Agent/General Manager David Pedersen explained that the emergency requiring immediate action was the loss of power that prevented the ability to move sludge to and from the digesters. He noted that sludge was able to be pumped from Tapia to Rancho; however, there was no way to move the sludge in and out of the digesters, which caused the sludge to backup. He recommended that the Board declare the findings of an emergency and approve an amount not to exceed \$60,000 to allow staff to complete all of the necessary repairs.

Administering Agent/General Manager David Pedersen also reported that over 7.02 inches of rain was measured at Tapia during the storm from February 17th to 20th. He noted that because the balancing ponds had filled up, the effluent bypassed the filters at Tapia during the heavy deluge and went into the chlorine contact basin. He stated that the effluent was partially treated to nearly the full extent; however, it did not receive filtration and there was higher turbidity than normally allowed for discharge due to the missing filtration process. He noted that this caused an exceedance of the turbidity limit for discharge, and it was unknown how this would affect the JPA in terms of regulatory violations. He also noted that the Regional Board typically recognizes situations such as this for treatment plants that have this type of challenge. He recognized staff for their outstanding teamwork in responding to this emergency situation.

Director Peterson moved that, based on the emergency to prevent overflow of sludge, the JPA Board declare that the failure of the switchgear at the Rancho Las Virgenes Composting Facility an emergency requiring immediate action without delay, and authorize the Administering Agent/General Manager to procure the goods and services necessary for temporary operations and permanent repairs, in an amount not to exceed \$60,000. Motion seconded by Director Paule.

Keith Lemieux, Authority Counsel, advised that the JPA Board make findings that the emergency did not permit the delay to competitively solicit bids for the necessary work, and that action was necessary to respond to the emergency.

Director Peterson amended the motion to include that action was necessary to respond to the emergency and there was not sufficient time to put the work out to a competitive bid. Amended motion seconded by Director Paule. Motion carried unanimously.

4. **PURE WATER PROJECT LAS VIRGENES – TRIUNFO: INSTITUTIONAL ISSUES WORKSHOP**

Administering Agent/General Manager David Pedersen provided introductory remarks regarding the list of potential institutional issues between Las Virgenes Municipal Water District and Triunfo Sanitation District, which were brought up at previous meetings and which were divided into three categories: financial, allocations, and institutional/governance. He stated that the goal was to narrow down the list of issues by identifying those that could have logical solutions and where there was mutual agreement on the best solution, and identify those that could potentially be controversial or difficult to resolve. He also stated that staff would review the current structure of the JPA Agreement.

David Lippman, Director of Facilities and Operations, provided a PowerPoint presentation, which included the current structure of the JPA, cost allocations, effluent disposal, net influent, monthly average recycled water sales, surplus and supplement, and fish flow discharge.

Administering Agent/General Manager David Pedersen provided a PowerPoint presentation outlining institutional issues including financial, allocation, and institutional/governance issues.

Director Paule expressed concern with allocating costs should the JPA add another partner, such as the City of Thousand Oaks (Thousand Oaks). Administering Agent/General Manager David Pedersen stated that additional partners could be added to the list of institutional issues for the financial and allocation categories.

Director Pan suggested determining whether the advanced treatment plant would be operated year round or only during the winter months, and sharing costs with additional partners such as Thousand Oaks.

Director Lewitt expressed concern with cost allocation for brine disposal. Administering Agent/General Manager David Pedersen stated that the cost allocation for brine disposal could also be added to the list of institutional issues. He also stated that running the advanced treatment plant year round could be an institutional goal for consideration by both agencies.

Director Peterson expressed concern with the type of water that would be produced for Thousand Oaks through the advanced treatment plant and that they may not be able to take the water directly. Director Caspary commented that Thousand Oaks could obtain the water from Calleguas Municipal Water District (Calleguas) through an exchange. Director Peterson expressed concern that additional storage might be needed if the advanced treatment plant were to run year-round. Administering Agent/General Manager David Pedersen stated that staff could explore running the plant year-round. He also stated that a water exchange for Thousand Oaks could be a possibility.

Administering Agent/General Manager David Pedersen reviewed the list of potential financial issues associated with indirect potable reuse using Las

Virgenes Reservoir. He suggested determining how costs would be shared for Las Virgenes-owned facilities, and whether the JPA would finance the project jointly or whether each partner would finance its own share. He suggested that the JPA seek grant funding and loans at the State and Federal levels jointly rather than having each agency seek separate grants and loans.

Director Paule inquired whether the JPA would need to create a Public Financing Authority. Administering Agent/General Manager David Pedersen responded that this could be an option for the JPA to consider in the future.

Director Orkney requested clarification on each agency's percentage ownership of the JPA's existing land and capital facilities and the proposed percentage ownership for the new advanced treatment plant.

Administering Agent/General Manager David Pedersen reviewed the list of allocation issues and suggested striking all of the items listed under this category because they could be logically addressed by the terms of the current JPA Agreement. He also reviewed the list of institutional/governance items and suggested keeping the item for determining Calleguas' role in transferring water from the Las Virgenes system to Oak Park Water Service on behalf of Triunfo. He also suggested keeping the item for determining a future policy for expansion of the recycled water system and determining whether it should be a JPA or individual agency policy. Director Peterson expressed a potential concern with the assumption that Oak Park Water Service would be the only water agency to receive advanced treated water because Calleguas has other member agencies.

Administering Agent/General Manager David Pedersen presented the proposed list of remaining issues:

1. How will costs be shared for Las Virgenes MWD-only facilities?
2. Will the JPA finance the project jointly or will each partner finance their own share?
3. What will Calleguas' role be in transferring water from the Las Virgenes system to Oak Park Water Service on behalf of Triunfo?
4. What will be the future policy for expansion of the recycled water system and should this be a JPA or individual partner policy?

A discussion ensued regarding Las Virgenes' current efforts for an interconnection with Calleguas' system on Lindero Canyon Road, which may require a three-party agreement and discussion of terms; consideration of whether this would be considered a wastewater project to address regulatory requirements or a water supply augmentation project; consideration of Calleguas assessing a wheeling charge; the possibility of Las Virgenes directly delivering water to Oak Pak Water Service; and working collaboratively with Calleguas.

Administering Agent/General Manager David Pedersen suggested that the JPA consider a future policy to discourage the sale of recycled water outside of the

JPA's service area boundary because the JPA would have less water available to treat through the Pure Water Project. He noted that staff would be bringing a status report to the Board on the recycled water project proposed for the Woodland Hills Country Club because this project has greatly reduced in scope.

A discussion ensued regarding sharing the costs and financing of the project jointly; seeking grants as the JPA; concerns with conditions for indirect potable reuse; the possibility that recycled water pipeline projects might not be subsidized in the future; and using the JPA's wells for a continuous supply during dry years.

Don Patterson, Director of Finance and Administration, noted that financing options include grants, loans, and bond financing. He also noted that staff held preliminary discussions regarding State Revolving Funds and suggested that it would be advantageous for the JPA to apply for the financing as opposed to the two member agencies applying separately.

Administering Agent/General Manager David Pedersen stated that staff would incorporate the Board's feedback on the four remaining issues, and return to the Board at a future regular or special meeting with data and costs to assist the Board in making decisions to move forward.

5. LAS VIRGENES - TRIUNFO WASHINGTON D.C. TRIP

Administering Agent/General Manager David Pedersen reviewed the handouts that were distributed, including the preliminary itinerary, Pure Water Project brochure, Pure Water Project handout, and maps showing the JPA boundaries and Congressional Districts boundaries.

A discussion ensued regarding compliance with the Brown Act during the Washington D.C. lobbying portion of the trip and providing a synopsis to the Board following the lobbying trip.

Director Paule requested that the brochure include the amount of potable water that would be produced through the project and suggested the inclusion of a pie chart. Administering Agent/General Manager David Pedersen noted that this information was included in the separate handout. He also stated that this information could be added to future versions of the brochure.

6. ADJOURNMENT

Seeing no further business to come before the Board, the meeting was duly adjourned at **7:28 p.m.**

James Wall, Chair

ATTEST:

Glen Peterson, Vice Chair

April 3, 2017 JPA Board Meeting

TO: Board of Directors

FROM: Facilities & Operations

Subject : Infrastructure Investment Plan: Fiscal Years 2017-18 through 2020-21

SUMMARY:

The Infrastructure Investment Plan (IIP) is a planning document used to identify, prioritize and establish preliminary budgets for facility improvement and replacement projects over a multi-year planning period.

The IIP incorporates proposed projects from a number of sources including the recently completed Sanitation and Recycled Water Master Plan Updates, recommendations from specific facility studies, regulatory requirements and facility condition assessments.

The IIP anticipates a total of \$38,035,638 in JPA capital improvement projects over the four-year period. LVMWD's share of the total would be \$26,855,649. Triunfo Sanitation District's share of the JPA projects would be \$11,179,989.

RECOMMENDATION(S):

Receive and file the Infrastructure Investment Plan for Fiscal Years 2017-18 through 2020-21.

FISCAL IMPACT:

No

ITEM BUDGETED:

No

FINANCIAL IMPACT:

The IIP is a planning document and does not appropriate funds. Appropriations for proposed projects for Fiscal Year 2017-18 will be included in the draft JPA Budget.

DISCUSSION:

The IIP covers a four-year planning period and uses the recently completed Sanitation and Recycled Water Master Plan Updates, specific facility plans, known regulatory requirements

and condition assessments to identify proposed capital projects and programs. A significant focus of this IIP is on replacement and rehabilitation of aging facilities serving the sanitation and recycled water systems.

In addition to the general reliability improvement program initiated last year for Tapia, potential sanitation projects are proposed for the plant to achieve summer season compliance with the TMDL for Malibu Creek.

For the recycled water system, the most significant effort will be the continued work on the Pure Water Project Las Virgenes-Triunfo.

Following is a summary of major projects included in the IIP:

Tapia Water Reclamation Facility:

- Programmable Logic Controller Upgrades (Page 3-5)
- Tapia Electrical Instrumentation Upgrades (Page 3-7)
- Tapia Duct Bank Infrastructure Upgrade (Page 3-10)
- Summer Season 2013 TMDL Compliance (Page 3-11)
- Process Air Improvements (Page 3-15)
- Tapia Lighting Efficiency Upgrade (Page 3-16)
- Tapia Water Reclamation Facility Reliability Improvements (Page 3-23)
- Primary Tank Nos. 4 and 5 Rehabilitation (Page 3-25)
- Sluice Gate and Drive Replacement (Page 3-27)
- Grit and Skimmings Pipeline Replacement (Page 3-28)

Rancho Las Virgenes Composting Facility:

- Raw Sludge Wet Well Mixing (Page 3-2)
- Rancho Las Virgenes Digester Cleaning (Page 3-4)
- Rancho Amendment Bin and Conveyance Modification Project (Page 3-9)
- Rancho Reliability Improvements (Page 3-21)

Recycled Water System:

- Lost Hills Overpass Recycled Water Main Relocation (Page 3-3)
- Pure Water Project Las Virgenes-Triunfo (Page 3-6)
- Miscellaneous Recycled Water Extensions (Page 3-8)
- Recycled Water Tank Coating (3-12)

The attached tables identify programs that have been added or removed as part of the IIP update. At the JPA Board meeting, staff will provide a presentation on the various proposed projects as well as an overview of funding strategies needed to implement the IIP.

GOALS:

Ensure Effective Utilization of the Public's Assets and Money

Prepared by: Doug Anders, Administrative Services Coordinator

ATTACHMENTS:

Infrastructure Investment Report - Fiscal Year 2017-18 to Fiscal Year 2020-21
Table of Programs Added or Removed

LVMWD REPORT # _____

4232 LAS VIRGENES ROAD
CALABASAS, CALIFORNIA 91302-1994
TELEPHONE: (818) 251-2100
LOS ANGELES COUNTY, CALIFORNIA

**LAS VIRGENES – TRIUNFO JOINT POWERS AUTHORITY
INFRASTRUCTURE INVESTMENT PLAN (IIP)**

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Section 1

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Las Virgenes - Triunfo Joint Powers Authority
Infrastructure Investment Plan
FY 2017/18 - FY 2020/21

Overview

The Capital Improvement Plan or Infrastructure Investment Plan (Plan) is a planning document used to identify, prioritize and establish baseline expenditures for facility improvements or replacement projects which ensure the Las Virgenes - Triunfo Joint Powers Authority can consistently meet the needs of the public, both for now and into the future.

This Plan covers a four (4) year planning horizon and includes the results of the Sanitation and Recycled Water Master planning documents completed during fiscal year 2013-2014.

The information provided in this Plan is intended to inform the reader of current and proposed capital improvement projects, their status and potential costs. Reports are included that sort projects and costs by priority and by location. Detailed project descriptions, sorted in numerical order, are found in Section 3.

The Infrastructure Investment Plan has been prepared and reviewed by staff to identify the candidate projects for future funding consideration and accomplishment. The Plan incorporates facility needs identified by a number of sources. These include: integration of new facility improvements identified in master planning documents; implementation of actions recommended in major studies; the facilities or programs necessary to meet regulatory compliance requirements; and, maintenance, repair, or replacement of component systems to continue normal operations.

The Plan places the prospective projects into various program years to organize them over the five-year period. Because of the complexity of facility planning, either deferral or speeding up of projects may occur. These changes are dealt with in the Annual Budget and are amended in the next year's Plan. Receipt of the Infrastructure Investment Plan by the JPA Board of Directors is recognized as one of the key planning steps necessary to formulate an overall Financial Plan and Budget for the JPA.

Assumptions

Significant drivers influencing the development of the Infrastructure Investment Plan ("Plan") include: 1) regulatory and policy issues affecting JPA operations; 2) master plan recommended facility replacement and repair; and 3) internally developed programs to improve service delivery and efficiency. Some examples include:

- Projects related to proposed regulatory standards for Malibu Creek and their impact to the Tapia Water Reclamation Facility ("Tapia") are included in this plan (10619 Summer Season 2013 TMDL Compliance).
- Significant effort will continue towards indirect potable reuse using the Las Virgenes Reservoir (10587 - Pure Water Project).
- Repair and replacement projects for JPA facilities will be scheduled for long term protection of agencies' investment and to improve operational efficiencies.

Summary

This year's Plan follows the previous trend on placing emphasis on "replacement-funded" projects for Recycled Water and Sanitation facilities. The proposed expenditures reflect the replacement of maturing district infrastructure and the need to replace, upgrade or refurbish existing systems to continue to provide high quality, reliable service. Exceptions to this trend are the pro-rata portions of projects that are attributed to new development or new users that include associated connection fee funding.

Major projects and programs outlined in this Plan are summarized below.

Recycled Water (RW) System

- Lost Hills Overpass Recycled Water Main Relocation (10540)
- Pure Water Project (10587)
- Miscellaneous RW Extension (10602)
- Recycled Water Tank Coating (10621)

Tapia Water Reclamation Facility

- Programmable Logic Controller Upgrades (10567)
- Tapia Electrical Instrumentation Upgrades (10597)
- Tapia Water Reclamation Facility Reliability Improvements (70007)
- Tapia Duct Bank Infrastructure Upgrade (10611)
- Summer Season 2013 TMDL Compliance (10619)
- Process Air Improvements (10626)
- Tapia Lighting Efficiency Upgrade (60023)
- Primary Tanks 4-5 Rehabilitation (70009)
- Sluice Gate and Drive Replacement (70010)
- Grit and Skimmings Pipeline Replacement (70012)

Rancho/Farm

- Raw Sludge Wet Well Mixing (10537)
- Rancho Las Virgenes Digester Cleaning (10565)
- Rancho Amendment Bin and Conveyance Modification Project (10608)
- Rancho Reliability Improvements (70002)

Administrative Programs

- SCADA System Communication upgrades (10520).

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Infrastructure Investment Plan
Fiscal Year 2017-18-- Fiscal Year 2020-21

Expenditures by Fund

	FY17/18	FY18/19	FY19/20	FY 20/21	Four-Year Total
Sanitation Construction	\$375,000	\$498,400	\$350,000	\$350,000	\$1,573,400
Sanitation Replacement	\$9,684,335	\$5,294,708	\$7,438,442	\$8,773,000	\$31,190,485
RW Conservation	\$686,400	\$656,400	\$656,400	\$525,000	\$2,524,200
RW Replacement	\$718,054	\$71,500	\$221,500	\$1,736,500	\$2,747,554
Total Costs	\$11,463,789	\$6,521,008	\$8,666,342	\$11,384,500	\$38,035,638

Infrastructure Investment Plan
Fiscal Year 2017/18 - Fiscal Year 2020/21

Las Virgenes - Triunfo Joint Powers Authority Cost Sharing

	FY 17/18	FY 18/19	FY 19/20	FY 20/21	Four-Year Total
Sanitation Construction	\$264,750	\$351,870	\$247,100	\$247,100	\$1,110,820
Sanitation Replacement	\$6,837,140	\$3,738,064	\$5,251,540	\$6,193,738	\$22,020,482
RW Conservation	\$484,598	\$463,418	\$463,418	\$370,650	\$1,782,085
RW Replacement	\$509,434	\$50,479	\$156,379	\$1,225,969	\$1,942,261
LVMWD Share	\$8,095,923	\$4,603,831	\$6,118,437	\$8,037,457	\$26,855,649
	FY17/18	FY18/19	FY19/20	FY20/21	Four-Year Total
Sanitation Construction	\$110,250	\$146,530	\$102,900	\$102,900	\$462,580
Sanitation Replacement	\$2,847,194	\$1,556,644	\$2,186,902	\$2,579,262	\$9,170,002
RW Conservation	\$201,802	\$192,982	\$192,982	\$154,350	\$742,115
RW Replacement	\$208,620	\$21,021	\$65,121	\$510,531	\$805,293
TSD Share	\$3,367,866	\$1,917,176	\$2,547,905	\$3,347,043	\$11,179,989
TOTAL COSTS	\$11,463,789	\$6,521,008	\$8,666,342	\$11,384,500	\$38,035,638

Infrastructure Investment Plan
Fiscal Year 2017/18 - Fiscal Year 2020/21

Expenditures by Priority

	FY17/18	FY18/19	FY19/20	FY20/21	Four-Year Total
Priority 1	\$3,072,691	\$2,410,127	\$4,738,997	\$3,970,000	\$14,191,815
Priority 2	\$4,027,178	\$1,970,561	\$644,345	\$1,423,500	\$8,065,584
Priority 3	\$4,363,920	\$2,140,320	\$3,283,000	\$5,991,000	\$15,778,240
TOTAL ALL PROJECTS	\$11,463,789	\$6,521,008	\$8,666,342	\$11,384,500	\$38,035,638

Priority 1: Essential project. Required by law or regulation; by disaster response; or by emergency or hazardous situation.

Priority 2: Necessary project. Required to maintain service reliability; safety; cost related efficiency or matching funds; water quality; current demand.

Priority 3: Desirable or Routine Project. Routine improvement; no direct cost benefit; cosmetic; or future demand.

Infrastructure Investment Plan
Fiscal Year 2017/18 - Fiscal Year 2020/21

Expenditures by Location

	FY17/18	FY18/19	FY19/20	FY20/21	Four-Year Total
ADMINISTRATIVE	\$0	\$67,361	\$43,845	\$0	\$111,206
RANCHO/FARM	\$2,024,715	\$2,302,447	\$1,455,997	\$1,319,000	\$7,102,159
RECYCLED WATER	\$2,633,454	\$1,952,900	\$2,102,900	\$3,486,500	\$10,175,754
TAPIA	\$6,805,620	\$2,198,300	\$5,063,600	\$6,579,000	\$20,646,520
TOTAL ALL PROJECTS	\$11,463,789	\$6,521,008	\$8,666,342	\$11,384,500	\$38,035,638

Section 2

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Infrastructure Investment Plan
Fiscal Year 2016/17 - Fiscal Year 2020/21

Projects by Priority

Priority	Project Number	Title	FY17/18	FY18/19	FY19/20	FY20/21	Four-Year Total
1	10565	Rancho Las Virgenes Digester	822,691	260,127	768,997		1,851,815
1	10587	Pure Water Project Las Virgenes -	1,850,000	1,750,000	1,750,000	1,750,000	7,100,000
1	10619	Summer Season 2013 TMDL	400,000	400,000	2,220,000	2,220,000	5,240,000
		SUB-TOTAL PRIORITY 1	\$3,072,691	\$2,410,127	\$4,738,997	\$3,970,000	\$14,191,815
2	10520	SCADA System Communication		67,361	43,845		111,206
2	10537	Raw Sludge Wet Well Mixing	107,628				107,628
2	10540	Lost Hills Overpass Recycled Water	622,054				622,054
2	10567	Programmable Logic Controller	332,850	376,700	52,800		762,350
2	10602	Miscellaneous RW Extension	131,400	131,400	131,400		394,200
2	10608	Rancho Amendment Bin and	937,396				937,396
2	10611	Tapia Duct Bank Infrastructure	184,750				184,750
2	10621	Recycled Water Tank Coating	30,000	71,500	71,500	71,500	244,500
2	10622	Capri Tract w/o Lindero RW					
2	60031	New RAS Wet Well and Pumps				1,220,000	1,220,000
2	70002	Rancho Reliability Improvements:	132,000				132,000
2	70003	Rancho Reliability Improvements:		132,000	132,000	132,000	396,000
2	70009	Tapia: Primary Tanks No. 4-5	790,000				790,000
2	70010	Tapia Sluice Gate and Drive	556,600				556,600
2	70011	Tapia Sluice Gate and Drive		556,600	212,800		769,400
2	70012	Tapia Grit and Skimmings Pipeline	202,500				202,500
2	99926	Rancho Las Virgenes Sludge		635,000			635,000
		SUB-TOTAL PRIORITY 2	\$4,027,178	\$1,970,561	\$644,345	\$1,423,500	\$8,065,584
3	10597	Tapia Electrical and Instrumentation	66,000				66,000
3	10623	Hillcrest & Oak Park North					
3	10626	Process Air Improvements	3,671,000				3,671,000
3	60023	Tapia Lighting Efficiency Upgrade	469,920				469,920
3	60030	Grit Chamber Mixing System				133,000	133,000
3	60032	Pavement Restoration Tapia				432,000	432,000
3	60033	Pavement Restoration Rancho		533,320			533,320
3	70007	Tapia Water Reclamation Facility	132,000				132,000
3	70008	Tapia Water Reclamation Facility		132,000	132,000	132,000	396,000
3	80748	Rancho: Replace Agitators			555,000	555,000	1,110,000
3	99911	Rancho Las Virgenes: FOG Receiving	25,000	742,000			767,000
3	99967	Tapia Automated Filter Wash down		143,000			143,000

Infrastructure Investment Plan
Fiscal Year 2016/17 - Fiscal Year 2020/21

Projects by Priority

Priority	Project Number	Title	FY17/18	FY18/19	FY19/20	FY20/21	Four-Year Total
3	99972	Primary Effluent Equalization		490,000	2,446,000	2,442,000	5,378,000
3	99975	A/B Bus Electrical Modification		100,000			100,000
3	99978	Ovation Upgrade				632,000	632,000
3	99981	Agoura Road Extension Phase II			150,000	1,665,000	1,815,000
		SUB-TOTAL PRIORITY 3	\$4,363,920	\$2,140,320	\$3,283,000	\$5,991,000	\$15,778,240
TOTAL ALL PROJECTS			\$11,463,789	\$6,521,008	\$8,666,342	\$11,384,500	\$38,035,638

Infrastructure Investment Plan
Fiscal Year 2017/18 - Fiscal Year 2020/21

Projects by Location

Project Number	Title	FY17/18	FY18/19	FY19/20	FY20/21	Four-year total
ADMINISTRATIVE						
10520	SCADA System Communication	0	67,361	43,845	0	111,206
SUB-TOTAL ADMINISTRATIVE		\$0	\$67,361	\$43,845	\$0	\$111,206
RANCHO/FARM						
10537	Raw Sludge Wet Well Mixing	107,628	0	0	0	107,628
10565	Rancho Las Virgenes Digester Cleaning	822,691	260,127	768,997	0	1,851,815
10608	Rancho Amendment Bin and	937,396	0	0	0	937,396
60033	Pavement Restoration Rancho	0	533,320	0	0	533,320
70002	Rancho Reliability Improvements: FY 17	132,000	0	0	0	132,000
70003	Rancho Reliability Improvements: FY 18	0	132,000	132,000	132,000	396,000
80748	Rancho: Replace Agitators	0	0	555,000	555,000	1,110,000
99911	Rancho Las Virgenes: FOG Receiving	25,000	742,000	0	0	767,000
99926	Rancho Las Virgenes Sludge Thickening	0	635,000	0	0	635,000
99978	Ovation Upgrade	0	0	0	632,000	632,000
SUB-TOTAL RANCHO/FARM		\$2,024,715	\$2,302,447	\$1,455,997	\$1,319,000	\$7,102,159
RECYCLED WATER						
10540	Lost Hills Overpass Recycled Water	622,054	0	0	0	622,054
10587	Pure Water Project Las Virgenes -	1,850,000	1,750,000	1,750,000	1,750,000	7,100,000
10602	Miscellaneous RW Extension	131,400	131,400	131,400	0	394,200
10621	Recycled Water Tank Coating	30,000	71,500	71,500	71,500	244,500
10622	Capri Tract w/o Lindero RW	0	0	0	0	0
10623	Hillcrest & Oak Park North Apartments	0	0	0	0	0
99981	Agoura Road Extension Phase II	0	0	150,000	1,665,000	1,815,000
SUB-TOTAL RECYCLED WATER		\$2,633,454	\$1,952,900	\$2,102,900	\$3,486,500	\$10,175,754
TAPIA						
10567	Programmable Logic Controller	332,850	376,700	52,800	0	762,350
10597	Tapia Electrical and Instrumentation	66,000	0	0	0	66,000
10611	Tapia Duct Bank Infrastructure Upgrade	184,750	0	0	0	184,750
10619	Summer Season 2013 TMDL	400,000	400,000	2,220,000	2,220,000	5,240,000
10626	Process Air Improvements	3,671,000	0	0	0	3,671,000
60023	Tapia Lighting Efficiency Upgrade	469,920	0	0	0	469,920
60030	Grit Chamber Mixing System	0	0	0	133,000	133,000

Infrastructure Investment Plan
Fiscal Year 2017/18 - Fiscal Year 2020/21

Projects by Location

Project Number	Title	FY17/18	FY18/19	FY19/20	FY20/21	Four-year total
60031	New RAS Wet Well and Pumps	0	0	0	1,220,000	1,220,000
60032	Pavement Restoration Tapia	0	0	0	432,000	432,000
70007	Tapia Water Reclamation Facility	132,000	0	0	0	132,000
70008	Tapia Water Reclamation Facility	0	132,000	132,000	132,000	396,000
70009	Tapia: Primary Tanks No. 4-5	790,000	0	0	0	790,000
70010	Tapia Sluice Gate and Drive	556,600	0	0	0	556,600
70011	Tapia Sluice Gate and Drive	0	556,600	212,800	0	769,400
70012	Tapia Grit and Skimmings Pipeline	202,500	0	0	0	202,500
99967	Tapia Automated Filter Wash down	0	143,000	0	0	143,000
99972	Primary Effluent Equalization	0	490,000	2,446,000	2,442,000	5,378,000
99975	A/B Bus Electrical Modification	0	100,000	0	0	100,000
SUB-TOTAL TAPIA		\$6,805,620	\$2,198,300	\$5,063,600	\$6,579,000	\$20,646,520
TOTAL ALL PROJECTS		\$11,463,789	\$6,521,008	\$8,666,342	\$11,384,500	\$38,035,638

Section 3

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SCADA System Communication Upgrades

99906

Job Number: 10520 Project Manager: Schlageter FY Originated: FY12-13	Priority: 2 Category: Business Improvements Program: No
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Scope of Work

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.

Project Justification

The existing system is now limited in speed, bandwidth and flexibility. The system is also past its peak communication bandwidth and expected life-span. Upgrading will dramatically increase the bandwidth of the system allowing the use of security cameras, voice over IP (VOIP) phone and certain types of smart sensors.

The upgrades will reduce dependency on telephone company equipment and will help reduce time spent coordinating repairs with outside vendors.

The project is anticipated to be re-bid once a revised bid package is developed.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees	\$6,239		\$22,607			\$28,846		
Contracts/Equipment								
District Labor			\$1,213			\$1,213		
G & A Allocations			\$2,388			\$2,388		
TOTALS	\$6,239		\$26,208			\$32,447	\$93,100	\$60,653

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design						
Bidding		\$437	\$285		\$722	
Construction		\$50,700	\$33,000		\$83,700	
Labor and G&A Expense		\$16,224	\$10,560		\$26,784	
TOTALS	\$0	\$67,361	\$43,845	\$0	\$111,206	\$143,653

APPROPRIATION REQUEST: \$0

Cost Estimate Basis: Estimate is based on the initial bid results received and includes contingency for added sites.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction		RW Conservation	LVMWD
				71%
P/W Replacement	Sanitation Replacement		RW Replacement	TSD
	100.0%			29%

Raw Sludge Wet Well Mixing Improvements

99905

Job Number: 10537 Project Manager: Adams FY Originated: FY12-13	Priority: 2 Category: Facility Improvements Program: No
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Scope of Work

Replace the existing centrifugal mixing pump with a pump that is more appropriate for sludge mixing. Additionally other appurtenances including piping and valve modifications will be included to improve recirculation.

Project Justification

The existing centrifugal mixing pump is not able to convey enough flow to properly mix the raw sludge in the wet wells which results in the settlement of heavier solids to the bottom of the tank. The collection of settled solids reduces tank capacity and increases costs for maintenance.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees				\$14,517	\$31,866	\$46,383		
Contracts/Equipment				\$15,978	\$130,653	\$146,631		
District Labor				\$1,224	\$30,000	\$31,224		
G & A Allocations				\$940	\$11,809	\$12,749		
TOTALS				\$32,659	\$204,328	\$236,987	\$148,000	-\$88,987

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design						
Bidding						
Construction	\$81,536				\$81,536	
Labor and G&A Expense	\$26,092				\$26,092	
TOTALS	\$107,628	\$0	\$0	\$0	\$107,628	\$344,614

APPROPRIATION REQUEST: \$196,614

Cost Estimate Basis: Engineer's Estimate

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Lost Hills Overpass Recycled Water Main Relocation

99926

Job Number: 10540 Project Manager: Zhao FY Originated: FY13-14	Priority: 2 Category: Facility Improvements Program: No
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Scope of Work

Relocate the existing 10" recycled water pipeline in the Lost Hills overpass to the new overpass that will be under construction beginning May, 2015.

Project Justification

The existing line must be relocated due to the demolition of the existing Lost Hills overpass. The existing 10" line runs through the overpass.

The ongoing construction project has experienced significant delays. The estimated payment to the city will be in FY 17-18.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees		\$38,412	\$29,776	\$9,095	\$2,480	\$79,763		
Contracts/Equipment			\$857			\$857		
District Labor		\$4,273	\$5,151	\$4,635	\$120	\$14,179		
G & A Allocations		\$6,558	\$8,887	\$4,962	\$64	\$20,472		
TOTALS		\$49,243	\$44,671	\$18,692	\$2,664	\$115,270	\$852,433	\$737,163

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design						
Bidding						
Construction	\$471,253				\$471,253	
Labor and G&A Expense	\$150,801				\$150,801	
TOTALS	\$622,054	\$0	\$0	\$0	\$622,054	\$737,324

APPROPRIATION REQUEST: \$0

Cost Estimate Basis: Construction costs include services during construction (15% of construction amount) and construction management from Parsons Corporation & Change Order No. 1 of \$121,918 approved by the JPA Board on 4/26/16.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
0.0%				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
		100.0%		29%

Rancho Las Virgenes Digester Cleaning and Repair

99934

Job Number: 10565 Project Manager: Adams FY Originated: FY13-14	Priority: 1 Category: Facility Improvements Program: No
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Scope of Work

To clean out and make all necessary repairs to existing digesters # 1 and #2. The full scope of repairs is unknown at this time but could include coatings ,concrete patching, pipe and valve repairs, removal of the steam lances, and repairs to hatches and seals.

Project Justification

The digesters have not been taken off line for cleaning in their 20 years of service. It is recommended that digesters are cleaned every 10 years. With the completion of the third digester project in 2015, there will be enough digester capacity for the existing digesters to be cleaned and repaired.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees				\$75	\$56,056	\$56,131		
Contracts/Equipment				\$159,431	\$37,521	\$196,952		
District Labor				\$1,577	\$864	\$2,441		
G & A Allocations				\$1,144	\$347	\$1,491		
TOTALS				\$162,227	\$94,788	\$257,015	\$318,000	\$60,985

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design	\$53,694				\$53,694	
Bidding	\$150	\$150	\$150		\$450	
Construction	\$692,655	\$196,952	\$692,655		\$1,582,262	
Labor and G&A Expense	\$76,192	\$63,025	\$76,192		\$215,409	
TOTALS	\$822,691	\$260,127	\$768,997	\$0	\$1,851,815	\$2,108,830

APPROPRIATION REQUEST: \$761,706

Cost Estimate Basis: Staff estimate. Will be revised following a determination of the condition of the digesters after cleaning and recommended repairs, if necessary.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Programmable Logic Controller Upgrades

99936

<p>Job Number: 10567 Project Manager: Schlageter FY Originated: FY13-14</p>	<p>Priority: 2 Category: Facility Improvements Program: No</p>
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Scope of Work

This project replaces programmable logic controllers (PLC's) with newer PLCs 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.

Project Justification

The PLC's at Tapia and centrate treatment have become obsolete and need to be replaced with new PLC's and ancillary equipment.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS							\$226,000	\$226,000

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning	\$0				\$0	
Land Acquisition	\$0				\$0	
Design	\$0				\$0	
Bidding	\$2,850	\$500			\$3,350	
Construction	\$250,000	\$285,000	\$40,000		\$575,000	
Labor and G&A Expense	\$80,000	\$91,200	\$12,800		\$184,000	
TOTALS	\$332,850	\$376,700	\$52,800	\$0	\$762,350	\$762,350

APPROPRIATION REQUEST: \$106,850

Cost Estimate Basis: Estimate based on MSO Proposal.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Pure Water Project Las Virgenes - Triunfo

99961

<p>Job Number: 10587 Project Manager: Lippman FY Originated: FY14-15</p>	<p>Priority: 1 Category: Facility Improvements Program: No</p>
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Scope of Work

On August 1, 2016 the JPA Board selected indirect potable reuse using Las Virgenes Reservoir as the preferred scenario for the Basis of Design Report. This CIP will fund preliminary studies, outreach, CEQA analysis, preliminary design and final design.

Project Justification

The JPA desires to maximize beneficial reuse of recycled water while avoiding costly treatment upgrades to comply with new TMDL water quality limits. On June 2, 2014 the Board adopted guiding principles creating a framework for the next steps in developing seasonal storage.

[Note: This is a continuation of IIP - 10393]

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees			\$174,716	\$525,782	\$143,272	\$843,770		
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS			\$174,716	\$525,782	\$143,272	\$843,770	\$2,271,644	\$1,427,874

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning	\$1,750,000				\$1,750,000	
Land Acquisition	\$100,000				\$100,000	
Design		\$1,750,000	\$1,750,000		\$3,500,000	
Bidding				\$1,750,000	?	
Construction						
Labor and G&A Expense						
TOTALS	\$1,850,000	\$1,750,000	\$1,750,000	\$1,750,000	\$7,100,000	\$7,943,770

APPROPRIATION REQUEST: \$422,126

Cost Estimate Basis: Planning includes regulatory permitting, predesign, agreements, CEQA and funding efforts. Planning is estimated at 5% of construction cost, design at 5% of construction cost and bidding at 1% of construction cost. The construction cost is estimated at \$70M based on scenario No. 4 (TPR) with reduced nine costs from

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction		RW Conservation	LVMWD
		20.0%	30.0%	71%
P/W Replacement	Sanitation Replacement		RW Replacement	TSD
		50.0%		29%

Tapia Electrical and Instrumentation Upgrades

99950

<p>Job Number: 10597 Project Manager: Korkosz FY Originated: FY13-14</p>	<p>Priority: 3 Category: Facility Improvements Program: No</p>
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Scope of Work

Replace obsolete and malfunctioning mechanical protective relays for generators with new solid state controls. The controls will provide better generator protection and troubleshooting capabilities (generators 1 & 2). Generator vendor will be selected through RFP process.

Project Justification

The JPA's Tapia Water Reclamation facility represents a significant investment that is necessary for ongoing sewage treatment.

Treatment plant equipment and appurtenances are inspected and evaluated on an ongoing basis to determine the most cost effective repair/replace maintenance schedules.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS							\$167,810	\$167,810

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design						
Bidding						
Construction	\$50,000				\$50,000	
Labor and G&A Expense	\$16,000				\$16,000	
TOTALS	\$66,000	\$0	\$0	\$0	\$66,000	\$66,000

APPROPRIATION REQUEST: \$0

Cost Estimate Basis: Staff estimate.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
		100.0%		29%

Miscellaneous RW Extension

99979

Job Number: 10602 Project Manager: Schlageter FY Originated: FY 15-16	Priority: 2 Category: Capacity/Supply Program: Yes
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Scope of Work

Funding to develop miscellaneous recycled water system extensions.

the FY 16-17 budget provides funding for the 6-inch recycled water main extension from Hedgewall Drive to Yerba Buena Elementary School (1260 LF) and 4-inch service to the City of Westlake Village Canyon Oaks Park (640 LF) as a component to the Calleguas Intertie Project.

Project Justification

Converting existing potable water irrigation to irrigation with recycled water reduces imported water demand, reduces creek discharge and increases beneficial reuse.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees				\$6,921		\$6,921		
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS				\$6,921		\$6,921	\$106,000	\$99,079

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design	\$5,000	\$5,000	\$5,000		\$15,000	
Bidding	\$1,000	\$1,000	\$1,000		\$3,000	
Construction	\$95,000	\$95,000	\$95,000		\$285,000	
Labor and G&A Expense	\$30,400	\$30,400	\$30,400		\$91,200	
TOTALS	\$131,400	\$131,400	\$131,400	\$0	\$394,200	\$401,121

APPROPRIATION REQUEST: \$32,321

Cost Estimate Basis: Staff estimate. Potential grant funded by prop 84 IRWM with 50% matching funds. Estimate based on 2014 RW Master Plan cost per LF of pipeline (6"=\$220/LF. 4"=190/LF reduced to \$120/LF) due to lack of paving for service run.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation	100.0%	LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
				29%

Rancho Amendment Bin and Conveyance Modification Project

60000

<p>Job Number: 10608 Project Manager: Adams FY Originated: FY 16-17</p>	<p>Priority: 2 Category: Facility Improvements Program: No</p>
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Scope of Work

The project consists of installing a new smaller amendment bin and modification to the conveyor system to simplify the amendment conveyance process.

[REDUCES 10574]

Project Justification

The existing amendment bin has reached the end of its life expectancy. The existing bin is highly corroded and requires significant rehabilitation or replacement. The cost to rehabilitate the existing bin exceeds the cost to replace it with a smaller bin with a more simplified process that will reduce future maintenance costs and provide a new service life.

The cost of construction will be in FY 2017-2018. The total construction cost has increased to \$844K due to the preliminary design defining the entire scope beyond a rough order of magnitude.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees					\$102,693	\$102,693		
Contracts/Equipment								
District Labor					\$7,600	\$7,600		
G & A Allocations					\$900	\$900		
TOTALS					\$111,193	\$111,193	\$776,500	\$665,307

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design						
Bidding	\$150				\$150	
Construction	\$844,366				\$844,366	
Labor and G&A Expense	\$92,880				\$92,880	
TOTALS	\$937,396	\$0	\$0	\$0	\$937,396	\$1,048,589

APPROPRIATION REQUEST: \$272,089

Cost Estimate Basis: Based on engineering estimate and estimate from bin and conveyor manufacturers.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Tapia Duct Bank Infrastructure Upgrade

60006

Job Number: 10611 Project Manager: Korkosz FY Originated: FY 16-17	Priority: 2 Category: Facility Improvement Program: No
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Scope of Work

Add new duct bank from the front gate to the chemical building with several intercept points along the way.

Project Justification

Inability to provide wiring and communication paths to various areas of the plant without disrupting the current system.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS							\$66,000	\$66,000

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning	\$6,000				\$6,000	
Land Acquisition						
Design	\$12,500				\$12,500	
Bidding	\$1,250				\$1,250	
Construction	\$125,000				\$125,000	
Labor and G&A Expense	\$40,000				\$40,000	
TOTALS	\$184,750	\$0	\$0	\$0	\$184,750	\$184,750

APPROPRIATION REQUEST: \$118,750

Cost Estimate Basis: Staff estimate.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Summer Season 2013 TMDL Compliance

60048

<p>Job Number: 10619 Project Manager: Lippman FY Originated: FY 16-17</p>	<p>Priority: 1 Category: Regulatory Compliance Program: No</p>
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Scope of Work

In February 2017 the SWRCB adopted the Implementation Plan for the 2013 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 Justification

The RWQCB is planning to approve an implementation plan for the EPA established 2013 Malibu Creek and Lagoon TMDL for Sedimentation and Nutrients to Address Benthic Community Impairments by May 2016.

The TMDL set summer season limit of 1 mg/L total nitrogen and 0.1 mg/L total phosphorus. The RWQCB has indicated that flow augmentation discharges will be required to meet this limit.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees Contracts/Equipment District Labor G & A Allocations								
TOTALS							\$200,000	\$200,000

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design	\$400,000				\$400,000	
Bidding		\$400,000			\$400,000	
Construction			\$2,000,000	\$2,000,000	\$4,000,000	
Labor and G&A Expense			\$220,000	\$220,000	\$440,000	
TOTALS	\$400,000	\$400,000	\$2,220,000	\$2,220,000	\$5,240,000	\$5,240,000

APPROPRIATION REQUEST: \$200,000

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction		RW Conservation	LVMWD
				71%
P/W Replacement	Sanitation Replacement		RW Replacement	TSD
	100.0%			29%

Recycled Water Tank Coating Evaluation and Repair

60050

<p>Job Number: 10621 Project Manager: Olinger FY Originated: FY 16-17</p>	<p>Priority: 2 Category: Facility Improvement Program: No</p>
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Scope of Work

The project consists of evaluating the coatings of three (3) steel tanks (Indian Hills, Parkway, Cordillera), that have been identified as needing possible rehabilitation based upon the annual diver's inspection report. The project would include review of the applicable inspection reports and videos and update the "Coating Evaluations and Proposed Rehabilitation Activities" report that was last prepared in June 2002 with recommended rehabilitation.

Project Justification

Proactive maintenance of the tank coatings reduces corrosion, extending the life expectancy of the tanks.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS							\$30,000	\$30,000

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning	\$30,000				\$30,000	
Land Acquisition						
Design		\$5,000	\$5,000	\$5,000	\$15,000	
Bidding		\$500	\$500	\$500	\$1,500	
Construction		\$50,000	\$50,000	\$50,000	\$150,000	
Labor and G&A Expense		\$16,000	\$16,000	\$16,000	\$48,000	
TOTALS	\$30,000	\$71,500	\$71,500	\$71,500	\$244,500	\$244,500

APPROPRIATION REQUEST: \$0

Cost Estimate Basis: Construction estimates to be updated based on the recommendations of the rehabilitation identified in the report.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
		100.0%		29%

Capri Tract w/o Lindero RW

Job Number: 10622 Project Manager: TSD FY Originated: FY 15-16	Priority: 2 Category: Facility Improvements Program: No
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Scope of Work

Extension will serve the common landscape area of the Hillcrest and Oak Park North Apartments services area.

Project Justification

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS							\$431,000	\$431,000

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design						
Bidding						
Construction						
Labor and G&A Expense						
TOTALS	\$0	\$0	\$0	\$0	\$0	\$0

APPROPRIATION REQUEST: \$0

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation	100.0%	LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
				29%

Hillcrest & Oak Park North Apartments

Job Number: 10623 Project Manager: TSD FY Originated: FY 15-16	Priority: 3 Category: Facility Improvements Program: No
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Scope of Work

This extension will serve the common landscape area of Hillcrest and Oak Park North Apartments service area.

Project Justification

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS							\$300,000	\$300,000

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design						
Bidding						
Construction						
Labor and G&A Expense						
TOTALS	\$0	\$0	\$0	\$0	\$0	\$0

APPROPRIATION REQUEST: \$0

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation	100.0%	LVMWD 71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD 29%

Process Air Improvements

99910

<p>Job Number: 10626 Project Manager: Dingman FY Originated: FY12-13</p>	<p>Priority: 3 Category: Facility Improvements Program: No</p>
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Scope of Work

Replaces process air blowers and aeration diffusers with new "full floor" retrievable diffusers and three new more efficient blowers. Structural and mechanical modifications for the installation of the blowers and diffusers are included in the scope of this work.

Project Justification

The Tapia Process Air Study was completed in 2012 and showed that an annual energy savings \$184,000 could be achieved by implementing these improvements.

Additionally, aging infrastructure will be replaced and plant reliability will improve with the implementation of this program.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees					\$34,143	\$34,143		
Contracts/Equipment								
District Labor					\$4,444	\$4,444		
G & A Allocations					\$2,238	\$2,238		
TOTALS					\$40,825	\$40,825	\$1,797,400	\$1,756,575

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning	\$135,000				\$135,000	
Land Acquisition	\$0				\$0	
Design	\$290,000				\$290,000	
Bidding	\$27,000				\$27,000	
Construction	\$2,900,000				\$2,900,000	
Labor and G&A Expense	\$319,000				\$319,000	
TOTALS	\$3,671,000	\$0	\$0	\$0	\$3,671,000	\$3,711,825

APPROPRIATION REQUEST: \$1,914,425

Cost Estimate Basis: 2011 Tapia Air Study (adjusted for inflation)

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction		RW Conservation	LVMWD
				71%
P/W Replacement	Sanitation Replacement		RW Replacement	TSD
	100.0%			29%

Tapia Lighting Efficiency Upgrade

Job Number: 60023 Project Manager: Zhao FY Originated: FY 16-17	Priority: 3 Category: Facility Improvement Program: No
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Scope of Work

Replace internal and external lights at Tapia.

Project Justification

Take advantage of energy incentives, and energy savings.

Estimated incentives of \$25,000. Estimated annual electrical and maintenance savings of \$53,000. Simple pay back of 6.2 years.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design						
Bidding						
Construction	\$356,000				\$356,000	
Labor and G&A Expense	\$113,920				\$113,920	
TOTALS	\$469,920	\$0	\$0	\$0	\$469,920	\$469,920

APPROPRIATION REQUEST: \$469,920

Cost Estimate Basis: The Energy Network preliminary estimate in December 2015. Zero design cost estimate assumes NJPA awarded contract.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Grit Chamber Mixing System Replacement

Job Number: 60030 Project Manager: Dingman FY Originated: FY 16-17	Priority: 3 Category: Facility Improvement Program: No
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Scope of Work

Replace grit chamber mixing system with a more efficient mixing system.

Project Justification

The grit chamber uses a jet mixing system to keep light solids in suspension while heavier, inert solids settle out. There are "Blind Spots" where the grit and sludge accumulate with this system.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design						
Bidding				\$1,000	\$1,000	
Construction				\$100,000	\$100,000	
Labor and G&A Expense				\$32,000	\$32,000	
TOTALS	\$0	\$0	\$0	\$133,000	\$133,000	\$133,000

APPROPRIATION REQUEST: \$0

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

New RAS Wet Well and Pumps

Job Number: 60031 Project Manager: Dingman FY Originated: FY 16-17	Priority: 2 Category: Facility Improvement Program: No
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Scope of Work

Replace RAS wet well and pumps to increase pumping capacity and reliability.

Project Justification

The return activated sludge (RAS) rate has significant effect upon the BNR efficiency. If the RAS rate is increased, efficiency will improve.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design				\$100,000	\$100,000	
Bidding				\$10,000	\$10,000	
Construction				\$1,000,000	\$1,000,000	
Labor and G&A Expense				\$110,000	\$110,000	
TOTALS	\$0	\$0	\$0	\$1,220,000	\$1,220,000	\$1,220,000

APPROPRIATION REQUEST: \$0

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Pavement Restoration Tapia

Job Number: 60032 Project Manager: Dingman FY Originated: FY 16-17	Priority: 3 Category: Facility Improvement Program: No
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Scope of Work

Pavement restoration/slurry seal at Tapia.

Project Justification

To keep the pavement at Tapia in good repair.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design						
Bidding				\$3,000	\$3,000	
Construction				\$325,000	\$325,000	
Labor and G&A Expense				\$104,000	\$104,000	
TOTALS	\$0	\$0	\$0	\$432,000	\$432,000	\$432,000

APPROPRIATION REQUEST: \$0

Cost Estimate Basis: Staff estimate.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Pavement Restoration Rancho

Job Number: 60033 Project Manager: Dingman FY Originated: FY 16-17	Priority: 3 Category: Facility Improvement Program: No
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Scope of Work

Pavement restoration/slurry seal at Rancho.

Project Justification

To keep the pavement at Rancho in good repair.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design						
Bidding		\$4,000			\$4,000	
Construction		\$401,000			\$401,000	
Labor and G&A Expense		\$128,320			\$128,320	
TOTALS	\$0	\$533,320	\$0	\$0	\$533,320	\$533,320

APPROPRIATION REQUEST: \$0

Cost Estimate Basis: Staff estimate.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Rancho Reliability Improvements: FY 17-18

Job Number: 70002 Project Manager: Adams FY Originated: FY 16-17	Priority: 2 Category: Facility Improvement Program: Yes
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Scope of Work

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

Project Justification

Providing reliability and regulatory compliance requires systematic replacement or rehabilitation of facilities and equipment.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design						
Bidding						
Construction	\$100,000				\$100,000	
Labor and G&A Expense	\$32,000				\$32,000	
TOTALS	\$132,000	\$0	\$0	\$0	\$132,000	\$132,000

APPROPRIATION REQUEST: \$132,000

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Rancho Reliability Improvements: FY 18-19 through FY 20-21

Job Number: 70003 Project Manager: Adams FY Originated: FY 17-18	Priority: 2 Category: Facility Improvement Program: Yes
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Scope of Work

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

Project Justification

Providing reliability and regulatory compliance requires systematic replacement or rehabilitation of facilities and equipment.

Reference: 10601; 70002

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design						
Bidding						
Construction		\$100,000	\$100,000	\$100,000	\$300,000	
Labor and G&A Expense		\$32,000	\$32,000	\$32,000	\$96,000	
TOTALS	\$0	\$132,000	\$132,000	\$132,000	\$396,000	\$396,000

APPROPRIATION REQUEST: \$0

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Tapia Water Reclamation Facility Reliability Improvements: FY17-18

Job Number: 70007 Project Manager: Dingman FY Originated: FY 16-17	Priority: 3 Category: Facility Improvement Program: Yes
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Scope of Work

Based on an analysis of break history, facility age, pipe material, location, and other distribution system indicators, this project will fund specific repair and/or replacement projects.

Project Justification

Rehabilitation of existing infrastructure to maintain reliable service. PR stations have reached their end of useful life.

Multiple year programs to maintain reliable service within system.

Related: FY 16/17 - #10600; FY 18/19 thru FY 20/21 #70008

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design						
Bidding						
Construction	\$100,000				\$100,000	
Labor and G&A Expense	\$32,000				\$32,000	
TOTALS	\$132,000	\$0	\$0	\$0	\$132,000	\$132,000

APPROPRIATION REQUEST: \$132,000

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Tapia Water Reclamation Facility Reliability Improvements: FY18-19 Thru FY20-21

Job Number: 70008 Project Manager: Dingman FY Originated: FY 16-17	Priority: 3 Category: Facility Improvement Program: Yes
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Scope of Work

Based on an analysis of break history, facility age, pipe material, location, and other distribution system indicators, this project will fund specific repair and/or replacement projects.

Project Justification

Rehabilitation of existing infrastructure to maintain reliable service. PR stations have reached their end of useful life.

Multiple year programs to maintain reliable service within system.

Related: FY 16/17 - #10600; FY 17/18 #70007

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design						
Bidding						
Construction		\$100,000	\$100,000	\$100,000	\$300,000	
Labor and G&A Expense		\$32,000	\$32,000	\$32,000	\$96,000	
TOTALS	\$0	\$132,000	\$132,000	\$132,000	\$396,000	\$396,000

APPROPRIATION REQUEST: \$0

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Tapia: Primary Tanks No. 4-5 Rehabilitation

Job Number: 70009 Project Manager: Olinger FY Originated: FY 16-17	Priority: 2 Category: Facility Improvement Program: Yes
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Scope of Work

Concrete repair and the installation of a protective coating in the tanks. This project also includes the replacement of existing aluminum launders with stainless steel launders and new stainless steel inlet diffusers.

Project Justification

Tanks are 40 years old and the concrete is degrading. Launders are delaminating and need replacement.

Tank No. 1 was completed in FY 2014-2015 under job number 10512. This project is to complete the remaining four (4) tanks.

Related: #10607

The final two tanks, No. 4 and 5, are scheduled to be completed in FY 17/18.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design	\$10,000				\$10,000	
Bidding	\$3,000				\$3,000	
Construction	\$700,000				\$700,000	
Labor and G&A Expense	\$77,000				\$77,000	
TOTALS	\$790,000	\$0	\$0	\$0	\$790,000	\$790,000

APPROPRIATION REQUEST: \$790,000

Cost Estimate Basis: Based on actual costs for tanks #2 and #3 rehabilitation.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Tapia Sluice Gate and Drive Replacement - FY 17-18

Job Number: 70010 Project Manager: Olinger FY Originated: FY 16-17	Priority: 2 Category: Business Improvements Program: Yes
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Scope of Work

Replace existing gates in the tanks and channels at Tapia as well as drive mechanisms for flights and chains.

Replace ten (1) RAS gates in FY 17-18 and Ten (10) RAS gates in FY 18-19.

Project Justification

Many of the gates that separate channels and tanks are worn and do not work properly. The drives for the sludge collection system are over 30 years old. These items have reached their useful life and are in need of replacement.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design						
Bidding	\$1,600				\$1,600	
Construction	\$500,000				\$500,000	
Labor and G&A Expense	\$55,000				\$55,000	
TOTALS	\$556,600	\$0	\$0	\$0	\$556,600	\$556,600

APPROPRIATION REQUEST: \$556,600

Cost Estimate Basis: Based on manufacture's cost of \$16,000 per gate plus materials and labor for installation.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Tapia Sluice Gate and Drive Replacement - FY 18-19 - FY 19-20

Job Number: 70011 Project Manager: Olinger FY Originated: FY 16-17	Priority: 2 Category: Facility Improvements Program: No
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Scope of Work

Replace existing gates in the tanks and channels at Tapia as well as drive mechanisms for flights and chains.

Replace ten (10) RAS gates in FY 18-19.

Project Justification

Many of the gates that separate channels and tanks are worn and do not work properly. The drives for the sludge collection system are over 30 years old. These items have reached their useful life and are in need of replacement.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design						
Bidding		\$1,600	\$1,600		\$3,200	
Construction		\$500,000	\$160,000		\$660,000	
Labor and G&A Expense		\$55,000	\$51,200		\$106,200	
TOTALS	\$0	\$556,600	\$212,800	\$0	\$769,400	\$769,400

APPROPRIATION REQUEST: \$0

Cost Estimate Basis: Based on manufacture's cost of \$16,000 per gate plus materials and labor for installation.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Tapia Grit and Skimmings Pipeline Replacement

Job Number: 70012 Project Manager: Dingman FY Originated: FY 16-17	Priority: 2 Category: Facility Improvements Program: No
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Scope of Work

Replace approximately 230 feet of grit piping and "Y" grit valves as well as approximately 200 feet of primary skimming pipe. Pipe diameters vary from 4" to 8".

Project Justification

The existing pipes are worn and are developing leaks.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design	\$3,000				\$3,000	
Bidding	\$1,500				\$1,500	
Construction	\$150,000				\$150,000	
Labor and G&A Expense	\$48,000				\$48,000	
TOTALS	\$202,500	\$0	\$0	\$0	\$202,500	\$202,500

APPROPRIATION REQUEST: \$202,500

Cost Estimate Basis:

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Rancho: Replace Agitators

Job Number: 80748 Project Manager: Dingman FY Originated: FY10-11	Priority: 3 Category: Capacity/Supply Program: No
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Scope of Work

Purchase new compost agitators to replace the existing ones.

Project Justification

The existing agitators are approaching the end of their service life will need to be replaced. The original agitators had a seven year life as they were placed in service in 1994 and replaced in 2001-2002.

The existing agitators will be approaching the end of their service life. An aggressive maintenance schedule has doubled the service life of these agitators.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design						
Bidding						
Construction			\$500,000	\$500,000	\$1,000,000	
Labor and G&A Expense			\$55,000	\$55,000	\$110,000	
TOTALS	\$0	\$0	\$555,000	\$555,000	\$1,110,000	\$1,110,000

APPROPRIATION REQUEST: \$0

Cost Estimate Basis: Staff estimate based on previous purchases.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
0.0%	0.0%	0.0%		71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
0.0%	100.0%	0.0%		29%

Rancho Las Virgenes: FOG Receiving Facilities

Job Number: 99911 Project Manager: Dingman FY Originated: FY12-13	Priority: 3 Category: Facility Improvements Program: No
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Scope of Work

To conduct a study to determine the market for local high strength wastes (food waste, fats, oils, and grease (FOG)) that can be fed into the third digester. After completion of the study, the installation of facilities for receiving and conveying fats, oils, and grease (FOG) and food waste into the newly constructed third digester.

Project Justification

The FOG introduced into the new digester is expected to increase the amount of gas generated and to reduce the amount of sludge produced while reducing odor potential. The gas can be used to create energy through co-generation facilities.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning	\$25,000	\$10,000			\$35,000	
Land Acquisition		\$0			\$0	
Design		\$60,000			\$60,000	
Bidding		\$6,000			\$6,000	
Construction		\$600,000			\$600,000	
Labor and G&A Expense		\$66,000			\$66,000	
TOTALS	\$25,000	\$742,000	\$0	\$0	\$767,000	\$767,000

APPROPRIATION REQUEST: \$25,000

Cost Estimate Basis: 2014 Sanitation Master plan with additional staff estimates

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
	20.0%			71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	80.0%			29%

Rancho Las Virgenes Sludge Thickening

Job Number: 99926 Project Manager: Dingman FY Originated: FY13-14	Priority: 2 Category: Facility Improvements Program: No
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Scope of Work

Installation of a thickening centrifuge or rotary drum at Rancho to increase the solids percentage of raw sludge before it is fed to the digesters.

Project Justification

This project will thicken the sludge before it is fed to the digesters which would provide an increase in capacity.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning		\$25,000			\$25,000	
Land Acquisition						
Design		\$50,000			\$50,000	
Bidding		\$5,000			\$5,000	
Construction		\$500,000			\$500,000	
Labor and G&A Expense		\$55,000			\$55,000	
TOTALS	\$0	\$635,000	\$0	\$0	\$635,000	\$635,000

APPROPRIATION REQUEST: \$0

Cost Estimate Basis: 2014 Sanitation Master Plan

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Tapia Automated Filter Wash down

Job Number: 99967 Project Manager: Dingman FY Originated: FY15-16	Priority: 3 Category: Facility Improvements Program: No
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Scope of Work

This project provides piping, solenoids, wash down sprayers and SCADA control integration to allow for automatic backwashing of the 12 tertiary filters at Tapia.

Project Justification

Automating the backwashing of filters will allow for this activity to occur at night when flows are low. Currently, the filters are backwashed during the day and cause a higher peak flow due to the waste wash water being pumped into the influent sewer.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design		\$10,000			\$10,000	
Bidding		\$1,000			\$1,000	
Construction		\$100,000			\$100,000	
Labor and G&A Expense		\$32,000			\$32,000	
TOTALS	\$0	\$143,000	\$0	\$0	\$143,000	\$143,000

APPROPRIATION REQUEST: \$0

Cost Estimate Basis: Staff estimate.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Primary Effluent Equalization

Job Number: 99972 Project Manager: Dingman FY Originated: FY 15-16	Priority: 3 Category: Facility Improvements Program: No
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Scope of Work

Design and construct 1.25 million gallons of primary effluent equalization storage. The storage will be located at the "bone yard."

Project Justification

Primary effluent equalization will dampen peak flows into Tapia allowing greater control over hydraulic loading of the plant processes improving performance and reliability.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning		\$50,000			\$50,000	
Land Acquisition						
Design		\$440,000			\$440,000	
Bidding			\$4,000		\$4,000	
Construction			\$2,200,000	\$2,200,000	\$4,400,000	
Labor and G&A Expense			\$242,000	\$242,000	\$484,000	
TOTALS	\$0	\$490,000	\$2,446,000	\$2,442,000	\$5,378,000	\$5,378,000

APPROPRIATION REQUEST: \$0

Cost Estimate Basis: Hazen-Sawyer 2015 Report.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

A/B Bus Electrical Modification

Job Number: 99975 Project Manager: Korkosz FY Originated: FY 15-16	Priority: 3 Category: Business Improvements Program: No
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Scope of Work

Study the feasibility of reconfiguring the Tapia electrical switch gear and then hire electrical team to make the modifications.

Construction cost estimates will be developed following the completion of the feasibility study.

Project Justification

The main electrical switch gear at Tapia operates on two power phases (Wye / Delta). The two phases aren't compatible and inhibit staff's ability to shut off power at the plant for repairs.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design		\$100,000			\$100,000	
Bidding						
Construction						
Labor and G&A Expense						
TOTALS	\$0	\$100,000	\$0	\$0	\$100,000	\$100,000

APPROPRIATION REQUEST: \$0

Cost Estimate Basis: Staff estimate for study only. Construction cost estimate will be developed following the completion of the feasibility study.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Ovation Upgrade

Job Number: 99978 Project Manager: Miller FY Originated: FY 15-16	Priority: 3 Category: Business Improvements Program: No
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Scope of Work

Future upgrade of Rancho control system.

Project Justification

The current control system is nearing the end of its useful life.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design				\$5,000	\$5,000	
Bidding						
Construction				\$475,000	\$475,000	
Labor and G&A Expense				\$152,000	\$152,000	
TOTALS	\$0	\$0	\$0	\$632,000	\$632,000	\$632,000

APPROPRIATION REQUEST: \$0

Cost Estimate Basis: Staff estimate.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
	100.0%			29%

Agoura Road Extension Phase II

Job Number: 99981 Project Manager: Schlageter FY Originated: FY 15-16	Priority: 3 Category: Delivery Reliability Program: No
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Scope of Work

The project consists of continuation of the 8" recycled water main gap closure identified in the 2007 Recycled Water Master Plan. The project will complete the closure from where the first phase of the project ended as part of the City's Agoura Road widening project.

Project Justification

The project will close a system gap and provide system redundancy, improve reliability, and serve future development.

The project should be considered & coordinated with the City of Agoura Hills to time the project with future paving and street improvement projects.

Expenditures & Appropriations - Inception to Date & Anticipated (unaudited)

	Prior Yrs.	FY13-14	FY 14-15	FY 15-16	FY 16-17	Inception to Date	Approved Approp.	Carryover (deficit)
Design Effort/Fees								
Contracts/Equipment								
District Labor								
G & A Allocations								
TOTALS								

Proposed Project Expenditures

	FY 17-18	FY 18-19	FY 19-20	FY 20-21	4-Year Total	Total Project (projected)
Planning						
Land Acquisition						
Design			\$150,000		\$150,000	
Bidding						
Construction				\$1,500,000	\$1,500,000	
Labor and G&A Expense				\$165,000	\$165,000	
TOTALS	\$0	\$0	\$150,000	\$1,665,000	\$1,815,000	\$1,815,000

APPROPRIATION REQUEST: \$0

Cost Estimate Basis: Estimate is based on 1st phase bid results.

Fund:	% of Project Allocated by			JPA Partner:
P/W Construction	Sanitation Construction	RW Conservation		LVMWD
				71%
P/W Replacement	Sanitation Replacement	RW Replacement		TSD
		100.0%		29%

Section 4

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Planning Guidelines for Project Costs

All estimated costs for a project will be based on the estimated construction cost of the work.

To estimate Construction Costs use:

- Previous project work of similar scope and complexity
- Previous estimates for work updated and inflated by 3% compounded for each year since the estimate was prepared
- Project costs shown in the current Master Plan
- Means Estimating Guides (available in Engineering)
- Project costs shown in recent Water System Design Reports for pipelines, tanks, pump stations and the like
- Use 15% for contingency costs

To estimate Planning Costs use:

- Preliminary Design Report - 5% of Construction Cost
- Environmental Reports
 - \$10-20,000 for Neg Dec's/MND's
 - \$150,000 - 350,000 for full EIR's (depending on complexity)

Land Acquisition Costs

- Rural land use \$5,000/acre
- Urbanized land use \$50,000/acre
- For fees use 10% of acquisition cost

Design Costs

- Use 10% of Construction Cost (Assume consultants bill at \$125/hr)
- For very complex projects with numerous staff reviews use 15%

Bidding Costs

- Use 1% of Construction Cost

Other Costs related to construction

- Surveillance/inspection and administration use 6%
- Testing and other laboratory work use 2%
- District furnished equipment use vendor catalogs/pricing
- Construction Management Costs use 10% (private consultant)
- Operation and Maintenance Manual Preparation use 2%

District Labor and G&A Guidelines:

<u>Construction Cost</u>	<u>Labor</u> (as % of Construction)	<u>G&A</u> (as % of Construction)
< \$500K	12%	20%
\$500K - \$5M	4%	7%
> \$5M	2%	4%

Priority and Justification Criteria

Priority:

This identifies projects with a vocabulary of timeliness and need sensitivity. The higher priorities reflect projects that are typically driven by external needs or regulations rather than district needs. The overall CIP Program is achieved by a blend of projects in all Priorities consistent with fund availability.

1. **Essential Projects**
 - Required by law, regulation, or court mandate to be accomplished immediately.
 - Disaster recovery work needed to restore service
 - Emergency repairs to maintain/restore service reliability, or to resolve or correct a hazardous situation.
2. **Necessary Projects**
 - High need for scheduled repair, replacement, or upgrade to maintain or improve service reliability
 - Safety improvement to protect life or property
 - Improvement to protect facilities, equipment and structures
 - Cost related efficiency improvements
 - Conservation of resources
 - Water quality improvements - no regulatory requirement
 - Matching funding available (like grants)
 - Current demand related improvements
3. **Desirable or Deferrable Projects**
 - Routine improvements or repairs to systems
 - No direct cost benefit
 - Cosmetic improvements
 - Future demand related improvements

Justification Categories

The intent here was to group projects with similar reasons for being done or outcomes for ease of analysis of how Capital funds are being invested over time. It provides another index to analyze how the district is investing in facilities for the short and long-range future. The key question answered by this index is "Why is this project being done?"

1. **Safety**
2. **Water Quality**
3. **Delivery reliability**
4. **Regulatory Requirements**
5. **System Supply or Demand**
6. **Business Improvements (i.e., how we enhance our business practices)**
7. **Facility Improvements (i.e., upgrades and enhancements in general)**

Roles and Responsibilities for Project Managers

- A. Project Planning**
 - 1. Review current CIP for continuation of existing projects
 - 2. Review current CIP for projects programmed for next fiscal year
 - 3. Update status and data for existing projects on Project Sheets
 - 4. Review Master Plan or other studies and reports for new projects
 - 5. Review operational problems which need correction with CIP project work
 - 6. Brainstorm with users to identify CIP requirements
 - 7. Review various permits issued to operate facilities for new or added CIP project requirements
 - 8. Review regulatory requirements for new CIP project needs to meet compliance needs
 - 9. Consider 'wish list' needs for CIP projects

- B. Project Development**
 - 1. Prepare CIP Project Sheet
 - 2. Write/verify Project Scope
 - 3. Write Justification for Project
 - 4. Compute Project Costs
 - 5. Determine Program Year(s) for Project

- C. 5-Year CIP Program Preparation**
 - 1. Verify project scope, justification, costs, program year
 - 2. Provide answers and feedback as necessary
 - 3. Participate in planning meetings

- D. CIP Program Execution**
 - 1. Serve as single point of contact for project - assume ownership
 - 2. Establish schedule for work
 - 3. Establish significant milestones for work
 - 4. Establish budget for work
 - 5. Track/approve monthly invoices and costs of work on project
 - 6. Monitor progress of work, resolve issues, and keep project moving
 - 7. Provide quarterly status reports (consider costs, schedule, problems, slippages, etc.)
 - 8. Prepare necessary Board packages for review/approval of budget changes or other authorizations
 - 9. Provide quarterly cash flow projections
 - 10. Prepare project completion documents

Table 1 - Projects Removed from 2017/18 – 2010/21 IIP Update

Project	Status
10559 – Manhole Rehabilitation	Deferred/Deleted
10560 – Rancho: Rehabilitate Existing Centrate Line	Deferred/Deleted
10564 - Centrate Equalization Tank	Completed
10579 – Security Upgrades (JPA)	Completed
10588 – Woodland Hills Golf Course RW	Deferred/Deleted
10607 - Tapia: Primary Tanks No. 2 - 5 Rehabilitation	Completed
10617 - Flow Meter Replacement - JPA Meters	Forecasted Completion
10624 - Tapia Chemical Building Roof Replacement	Completed
60024 - Rancho Lighting Efficiency Upgrade	Deferred/Deleted
60045 - Alice Stelle Recycled Water Main Extension Project	Deferred/Deleted

Table 2 - Projects Added to 2017/18 – 2010/21 IIP Update

Project	Status
70009 – Tapia Primary Tanks No. 4-5 Rehabilitation	Proposed
70010 - Tapia Sluice Gate and Drive Replacement – FY 17/18	Proposed
70012 – Tapia Grit and Skimmings Pipeline Replacement	Proposed

April 3, 2017 JPA Board Meeting

TO: JPA Board of Directors

FROM: Facilities & Operations

**Subject : Rancho Las Virgenes Raw Sludge Wet Well Recirculation Modifications:
Reject All Bids**

SUMMARY:

On February 6, 2017, the Board authorized a call for bids for the Rancho Las Virgenes Raw Sludge Wet Well Recirculation Modifications Project. The project consists of replacing an existing centrifugal pump with a new positive displacement pump; installing a new in-line grinder, flowmeters, modulating plug valve for the discharge line into each well, and piping/fittings at the new grinder/isolation valve; and associated electrical/instrumentation work. The recirculating pump will restore redundancy to the digester pump system, assist in maintaining proper sludge solids suspension within the wet wells, and control the concentration of the sludge sent to the digesters.

A mandatory pre-bid job walk was held on February 23, 2017. Eight bids were submitted and publically opened on March 16, 2017. The apparent low bid was submitted by Pyramid Building & Engineering, Inc., in the amount of \$352,500. During the pre-bid period, staff released Addendum No. 1, excluding controls integration and programming from the scope of work as the software used by the JPA is proprietary. It was decided this portion of the work would be better managed if the JPA contracted for integration and programming directly. Despite all bidders acknowledging receipt of the addendum, each bidder included a cost for the control integration and programming work.

The low bid was significantly higher than the Engineer's Estimate of \$202,429. As a result, staff recommends rejecting all bids to allow the specifications to be revised such that integration and programming can be removed from the contract documents, and the bid schedule can be broken into more clearly defined portions of work to eliminate uncertainty. In addition, the in-line grinder will be listed as a bid option to allow staff the option of performing the installation in-house at a cost savings.

The revisions should provide more clarity and reduce uncertainty associated with the work. As a result, staff recommends that the Board rejects all bids and authorize revisions of the plans and specifications, followed by issuance of a new Call for Bids.

RECOMMENDATION(S):

Reject all bids for the Rancho Las Virgenes Raw Sludge Wet Well Recirculation Modifications Project and authorize a new Call for Bids based on a revised bid package.

FISCAL IMPACT:

No

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

There is no financial impact associated with the rejection of bids and issuance of a new Call for Bids.

DISCUSSION:

The following is a summary of the bids received:

Pyramid Building & Engineering, Inc.	\$352,500
Environmental Construction, Inc.	\$473,029
A. Bated General Contractors, Inc.	\$429,000
Spiess Construction Co., Inc.	\$403,000
Tharsos, Inc.	\$447,310
Mehta Mechinal Company, Inc.	\$434,000
Pacific Hydrotech Corp	\$417,800
Blois Construction, Inc.	\$499,900

Prepared by: Jared Q. Adams, P.E., Associate Engineer

ATTACHMENTS:

Bid Summary

RANCHO LAS VIRGENES RAW SLUDGE WET WELL RECIRCULATION MODIFICATIONS PROJECT: BID SUMMARY																							
Owner: Las Virgenes Municipal Water District																							
Bid Opening: 3/16/2017																							
Item #	Description	Quantity	Unit of Measure	Design Engineer Total	Estimate	Pyramid Building & Engineering, Inc.		Environmental Construction, Inc.		A. Bakes General Contractors, Inc.		Spless Construction Co, Inc.		Tharsons, Inc.		Mehta Mechanical Company, Inc.		Pacific Hydrotech Corp		Blois Construction, Inc.			
						Bidder #1	#2	#3	#4	#5	#6	#7	#8	#9	#10	#11	#12	#13	#14	#15	#16	#17	#18
						Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total	Unit Price	Item Total
1	MOBILIZATION & KICK-OFF MEETING	1	LS	\$2,000.00		\$21,500.00	\$21,500.00	\$30,000.00	\$30,000.00	\$20,000.00	\$20,000.00	\$19,400.00	\$19,400.00	\$22,280.00	\$22,280.00	\$20,000.00	\$20,000.00	\$41,800.00	\$41,800.00	\$20,000.00	\$20,000.00	\$41,800.00	\$41,800.00
2	MECHANICAL SITE DEMOLITION	1	LS	\$4,940.00		\$8,000.00	\$8,000.00	\$16,550.00	\$16,550.00	\$20,000.00	\$20,000.00	\$12,500.00	\$12,500.00	\$34,907.00	\$34,907.00	\$17,000.00	\$17,000.00	\$11,000.00	\$11,000.00	\$11,000.00	\$11,000.00	\$11,000.00	\$11,000.00
3	MECHANICAL EQUIPMENT & MATERIAL	1	LS	\$83,543.00		\$154,000.00	\$154,000.00	\$220,759.00	\$220,759.00	\$156,000.00	\$156,000.00	\$146,300.00	\$146,300.00	\$137,821.00	\$137,821.00	\$122,000.00	\$122,000.00	\$199,400.00	\$199,400.00	\$199,400.00	\$199,400.00	\$199,400.00	\$199,400.00
3A	IN LINE GRINDER (INCL. CONTROL PANEL AND INSTALLATION)	1	LS	\$19,500.00		\$51,000.00	\$51,000.00	\$42,500.00	\$42,500.00	\$34,000.00	\$34,000.00	\$47,200.00	\$47,200.00	\$34,267.00	\$34,267.00	\$39,000.00	\$39,000.00	\$4,600.00	\$4,600.00	\$4,600.00	\$4,600.00	\$4,600.00	\$4,600.00
4	MECHANICAL EQUIPMENT INSTALLATION	1	LS	\$15,000.00		\$22,000.00	\$22,000.00	\$32,100.00	\$32,100.00	\$74,000.00	\$74,000.00	\$53,600.00	\$53,600.00	\$101,551.00	\$101,551.00	\$112,000.00	\$112,000.00	\$33,500.00	\$33,500.00	\$33,500.00	\$33,500.00	\$33,500.00	\$33,500.00
5	ELECTRICAL EQUIPMENT & MATERIAL	1	LS	\$12,850.00		\$25,500.00	\$25,500.00	\$32,120.00	\$32,120.00	\$31,000.00	\$31,000.00	\$37,800.00	\$37,800.00	\$36,664.00	\$36,664.00	\$38,000.00	\$38,000.00	\$39,900.00	\$39,900.00	\$39,900.00	\$39,900.00	\$39,900.00	\$39,900.00
6	ELECTRICAL EQUIPMENT & MATERIAL INSTALLATION	1	LS	\$5,000.00		\$24,500.00	\$24,500.00	\$55,000.00	\$55,000.00	\$52,000.00	\$52,000.00	\$46,200.00	\$46,200.00	\$45,664.00	\$45,664.00	\$49,000.00	\$49,000.00	\$50,500.00	\$50,500.00	\$50,500.00	\$50,500.00	\$50,500.00	\$50,500.00
7	CONTROLS INTEGRATION & INSTALLATION	1	LS	\$5,760.00		\$46,000.00	\$46,000.00	\$44,000.00	\$44,000.00	\$42,000.00	\$42,000.00	\$40,000.00	\$40,000.00	\$34,156.00	\$34,156.00	\$37,000.00	\$37,000.00	\$37,000.00	\$37,000.00	\$37,000.00	\$37,000.00	\$37,000.00	\$37,000.00
	Overhead & Profit, Tax, Contingency			\$43,156.00																			
	Bid Total			\$202,429.00		\$352,500.00	\$352,500.00	\$473,029.00	\$473,029.00	\$429,000.00	\$429,000.00	\$403,000.00	\$403,000.00	\$447,310.00	\$447,310.00	\$434,000.00	\$434,000.00	\$417,800.00	\$417,800.00	\$417,800.00	\$417,800.00	\$417,800.00	\$417,800.00
																							\$499,500.00

April 3, 2017 JPA Board Meeting

TO: JPA Board of Directors

FROM: Facilities & Operations

Subject : Agreements Associated with Triunfo Sanitation District's Acquisition of Recycled Water System Facilities in Ventura County from Calleguas Municipal Water District

SUMMARY:

In 1992 and 1994, Calleguas Municipal Water District (CMWD), Triunfo Sanitation District (TSD) and Las Virgenes Municipal Water District (LVMWD), as Administering Agent of the Las Virgenes-Triunfo Joint Powers Authority (JPA), entered into two agreements for the purchase, sale, transmission and distribution of recycled water for the Oak Park/North Ranch and Lake Sherwood recycled water system facilities, including certain rights for CMWD to construct, own and operate the facilities. TSD is in the process of acquiring the recycled water system facilities from CMWD and will own and operate the facilities upon completion of the transaction.

The following three agreements need to be executed by CMWD, TSD and LVMWD, as Administering Agent of the JPA, to facilitate the sale/acquisition process:

1. *Agreement Terminating Agreement Regarding Purchase of Wholesale Reclaimed Water.* This agreement terminates the 1992 and 1994 agreements.
2. *Assignment & Assumption of Obligations under Memorandum of Understanding.* A MOU was executed between the three agencies in 1997 related to operations and the roles of the respective agencies for the management of the Oak Park/North Ranch and Lake Sherwood recycled water system facilities. The Assignment & Assumption Agreement assigns CMWD's responsibilities to TSD. A future MOU between TSD and LVMWD, acting as Administering Agent of the JPA, will be developed and executed to "modernize" the MOU by reflecting current operations.
3. *Consent:* This Consent allows CMWD to insert the effective date of the agreements upon closing after execution by TSD and LVMWD, acting as Administering Agent of the JPA.

RECOMMENDATION(S):

Authorize the Administrating Agent/General Manager to execute the *Agreement Terminating Agreement Regarding Purchase of Wholesale Reclaimed Water, Assignment & Assumption of Obligations under Memorandum of Understanding, and Consent* to facilitate Triunfo Sanitation District's acquisition of the Oak Park/North Ranch and Lake Sherwood

recycled water system facilities in Ventura County from Calleguas Municipal Water District.

FISCAL IMPACT:

No

ITEM BUDGETED:

No

FINANCIAL IMPACT:

There is no financial impact to the JPA from these agreements.

Prepared by: David R. Lippman, Director of Facilities and Operations

ATTACHMENTS:

Agreement Terminating Agreement Regarding Purchase of Wholesale Reclaimed Water
Assignment & Assumption of Obligations under Memorandum of Understanding
Consent

**AGREEMENT TERMINATING AGREEMENT REGARDING PURCHASE OF
WHOLESALE RECLAIMED WATER**

THIS AGREEMENT (the "Termination Agreement") is entered into as of _____, 2017 (the "Effective Date") by and among CALLEGUAS MUNICIPAL WATER DISTRICT ("CALLEGUAS"), TRIUNFO SANITATION DISTRICT, a public agency in the State of California formed pursuant to California Health and Safety Code Section 4700 et seq., ("TSD"), and LAS VIRGENES MUNICIPAL WATER DISTRICT ("LVMWD") with reference to the following facts:

RECITALS

WHEREAS, CALLEGUAS, TSD, and LVMWD are parties to the *Agreement Regarding Purchase of Wholesale Reclaimed Water* dated September 28, 1992, as amended by the *Amendment to Agreement Regarding Purchase of Wholesale Reclaimed Water* dated October 18, 1994 (collectively the "Reclaimed Water Agreement") a copy of which is attached hereto as Exhibit A; and

WHEREAS, the Reclaimed Water Agreement established terms for the sale, delivery, and use of reclaimed water for the Oak Park/North Ranch area within the CALLEGUAS service area, and also provided for the conveyance to CALLEGUAS of the Lake Sherwood reclaimed water facilities (as defined therein) and for CALLEGUAS's right to construct, own and operate the Oak Park wholesale facilities (as defined therein); and

WHEREAS, pursuant to an *Agreement for Transfer of Recycled Water Facilities*, TSD is acquiring from CALLEGUAS, as of the Effective Date of this Agreement, all of CALLEGUAS's rights in certain recycled water facilities including the Oak Park/North Ranch and Lake Sherwood recycled water facilities (the "TSD Purchase"); and

WHEREAS, pursuant to the TSD Purchase, Calleguas, TSD and LVMWD desire to terminate the Reclaimed Water Agreement;

NOW, THEREFORE, in consideration of the above recitals and the covenants and agreements set forth herein, and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, it is agreed:

1. Termination of Agreement. As of the Effective Date, the Reclaimed Water Agreement, and all rights and obligations of the parties thereunder, is terminated and of no further force or effect. Notwithstanding the foregoing, each party shall remain liable under the Reclaimed Water Agreement for any amounts accrued and payable by such party thereunder with respect to any period up to the Effective Date. The parties acknowledge and agree that this termination of the Reclaimed Water Agreement does not void or otherwise terminate transfers of property or money and deliveries of water that took place pursuant to the Reclaimed Water Agreement prior to the Effective Date.

2. Mutual Release. Except for the obligations of the parties under this Termination Agreement, CALLEGUAS and TSD hereby release and forever discharge each other and all of their respective managers, employees, agents, successors and assigns, from any claim, loss, expense, damage, liability, or obligation whatsoever, whether known or unknown, relating to or arising from the Reclaimed Water Agreement. CALLEGUAS and TSD acknowledge that they are aware of the meaning and legal effect of California Civil Code Section 1542, which provides:

“A General Release does not extend to claims which the creditor does not know or suspect to exist in his or her favor at the time of executing the Release, which if known by him or her must have materially affected his or her settlement with the debtor.”

To the fullest extent permitted by applicable law, CALLEGUAS and TSD waive the benefits of California Civil Code Section 1542 and all other statutes and judicial decisions of similar effect with regard to the discharge and release of claims contained in this Section.

3. Binding on Joint Venture. This Termination Agreement is executed by LVMWD in its separate capacity as a signatory to the Reclaimed Water Agreement, and as Administering Agent of the Joint Venture formed by LVMWD and TSD as defined in the Reclaimed Water Agreement.

4. Effective Date. The parties acknowledge and agree that the Effective Date of this Agreement corresponds to the closing of the TSD Purchase and is a condition to the TSD Purchase.

5. Miscellaneous.

(a) Counterparts. This Termination Agreement may be executed in any number of counterparts (including by facsimile or other electronic transmission), each of which will be deemed an original, but such counterparts together will constitute one and the same instrument.

(b) Applicable Law. This Termination Agreement shall be governed by and construed in accordance with the laws of the State of California. To the fullest extent permitted by law, any legal action arising from this Termination Agreement shall be brought in the appropriate forum in Ventura County, California, which the parties agree will be the sole venue for all such actions.

(c) Attorneys' Fees. In the event that any dispute between the Parties arising under this Termination Agreement results in litigation or arbitration, the prevailing Party in such dispute shall be entitled to recover from the other Party all reasonable fees, costs and expenses (including attorney's fees) incurred in such action.

(d) Authorization. Each party represents and warrants to the other that the execution and performance of this Termination Agreement (1) is within its powers, (2) has been duly authorized by all necessary actions on its behalf and all necessary consents or approvals have been obtained and are in full force and effect; and (3) binds said party and its respective officers,

directors, agents, employees, successors, assigns, and any others who may claim through it under this Termination Agreement.

(e) Recitals. All Recitals set forth above are intended to be and hereby are specifically made a part of this Termination Agreement.

(f) Construction. The parties acknowledge and agree that (i) each party is of equal bargaining strength, (ii) each party has actively participated in the negotiation of this Termination Agreement, and (iii) each party has consulted with such party's own, independent counsel, and such other professional advisors as such party has deemed appropriate, relative to any and all matters contemplated under this Termination Agreement.

(g) Amendment. This Termination Agreement may only be modified or amended in writing signed by each party.

(h) Severability. If any provision in this Termination Agreement is held by any court of competent jurisdiction to be invalid, illegal, void, or unenforceable, such portion shall be deemed severed from this Termination Agreement, and the remaining provisions shall nevertheless continue in full force and effect.

(i) Fees and Other Expenses. Except as otherwise specifically provided in this Agreement, each Party shall pay its own fees and expenses in connection with the negotiation and consummation of this Agreement.

(j) Joint Drafting. This Agreement has been jointly negotiated and drafted. The language of this Agreement shall be construed as a whole according to its fair meaning and not strictly for or against any Party. Each party acknowledges that they have been represented by independent legal counsel in connection with this Agreement.

(k) Further Assurances. Each of the parties hereto covenants and agrees, at its own expense, to take such further actions and execute and deliver such further instruments as may be reasonably required to consummate this Termination Agreement.

(Signature Page Follows)

IN WITNESS WHEREOF, the parties have executed this Termination Agreement as of the Effective Date in Ventura County, California.

Dated: _____, 2017

CALLEGUAS MUNICIPAL WATER DISTRICT

By: _____

Its: _____

Dated: _____, 2017

TRIUNFO SANITATION DISTRICT

By: _____

Its: _____

Dated: _____, 2017

LAS VIRGENES MUNICIPAL WATER DISTRICT

By: _____

Its: _____

Exhibit A

Copy of Reclaimed Water Agreement

(See Attached)

AMENDMENT TO AGREEMENT REGARDING PURCHASE OF
WHOLESALE RECLAIMED WATER AMONG CALLEGUAS MUNICIPAL
WATER DISTRICT, TRIUNFO SANITATION DISTRICT AND
LAS VIRGENES MUNICIPAL WATER DISTRICT

THIS AMENDMENT is entered into this 18th day of October, 1994 by and between CALLEGUAS MUNICIPAL WATER DISTRICT, hereinafter referred to as "Calleguas;" TRIUNFO SANITATION DISTRICT, hereinafter referred to as "Triunfo," AND LAS VIRGENES MUNICIPAL WATER DISTRICT, hereinafter referred to as "LVMWD."

RECITALS

A. The parties have entered into an agreement dated September 28, 1992 (hereinafter referred to as the "Agreement") for the purpose of the sale, transmission and distribution of reclaimed water for the Oak Park/North Ranch Area within the Calleguas Service Area. Said Agreement also provides for the repayment of certain planning and design costs and expenses relating to the construction of the Oak Park/North Ranch Reclaimed Water Distribution Project. The Agreement dated September 28, 1992, by and between the parties, is attached hereto as **Exhibit A** and is incorporated herein by this reference.

B. The parties ~~now~~ wish to provide for the sale and transfer of the Lake Sherwood Reclaimed Water Line (hereinafter referred to as the "Lake Sherwood Line"), and to accomplish said sale and transfer by an Amendment to the Agreement.

AGREEMENT

NOW, THEREFORE, it is agreed as follows:

1. The parties agree and have determined that it is in the best interest of the parties involved and the general welfare of the constituents of said parties, to provide for the transfer of the Lake Sherwood Line, more specifically described in **Exhibit B** attached hereto and incorporated herein by this reference, from Triunfo to Calleguas. Triunfo agrees to sell, convey or transfer to Calleguas, and Calleguas agrees to purchase from Triunfo, the Lake Sherwood Line pursuant to the terms and conditions set forth herein.

2. The sales price for the Lake Sherwood Line shall be Two Million Four Hundred Fifty-Five Thousand Seven Hundred Forty-Four

Dollars and Nineteen Cents (\$2,455,744.19). The parties agree that the payment by Calleguas to Triunfo shall be made within thirty-five (35) days from the date of the approval of this Amendment by the respective Boards of the parties and conditioned upon Triunfo being able to transfer title of the Lake Sherwood Line to Calleguas.

3. For purposes of facilitating the transfer of the Lake Sherwood Line, the parties agree that within five (5) days of the execution of this Amendment, the parties shall open an escrow at the law offices of Arnold, Back, Mayfield, Mathews, Wojkowski & Zirbel (hereinafter referred to as "Escrow Holder"), Located at 100 North Westlake Boulevard, Suite 201, Westlake Village, California. Said escrow shall provide for a closing date thirty (30) days from the date of the opening of escrow. The Escrow Holder shall be authorized to close said escrow after the following terms and conditions have been met:

a. Calleguas shall deliver to Escrow Holder:

(i) a check in the sum of Two Million Four Hundred Fifty-Five Thousand Seven Hundred Forty-Four Dollars and Nineteen Cents (\$2,455,744.19) made payable to the Triunfo Sanitation District; and

(ii) documentation satisfactory to Escrow Holder showing approval of said Amendment by the Board of Directors of Calleguas.

b. Triunfo shall deliver to Escrow Holder:

(i) a bill of sale and such other appropriate documents of conveyance and transfer of the Lake Sherwood Line, to Calleguas;

(ii) all documentation necessary to transfer to Calleguas the real property and/or easements relating to the Lake Sherwood Line, and Triunfo warrants that the Lake Sherwood Line is located within public right-of-way for which the necessary Encroachment permits have been obtained or within private right of way for which there are easements and/or deeds. Triunfo will hold Calleguas free and harmless from any liability relating to any claims that the placement of the Lake Sherwood Line is not within the right-of-way which has been legally obtained.

(iii) all plans, working drawings, specifications or any other relevant engineering documents relating to the Lake Sherwood Line.

(iv) documentation satisfactory to Escrow Holder showing approval of said Amendment by the Board of Directors of

Triunfo.

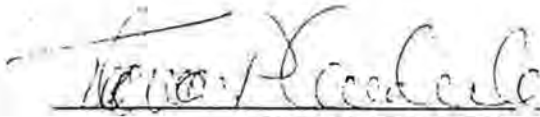
c. LVMWD shall deliver to Escrow Holder: documentation satisfactory to Escrow Holder showing approval of said Amendment by the Board of Directors of LVMWD.

4. The parties agree that Calleguas will buy reclaimed water from Triunfo, for delivery through the Lake Sherwood Line, upon the same terms and conditions as set forth in the Agreement.


5. This is the complete and total agreement between the parties; there are no outside oral or written agreements or understandings. This agreement may be amended by a mutual agreement between the parties in writing.

APPROVED AS TO FORM

CALLEGUAS MUNICIPAL WATER DISTRICT



Legal Counsel
CMWD


By 

"Calleguas"

TRIUNFO SANITATION DISTRICT




Legal Counsel
Triunfo

By 

"Triunfo"

LAS VIRGENES MUNICIPAL WATER DISTRICT



Legal Counsel
LVMWD

By 

"LVMWD"

Contract No. T92-16
AGREEMENT
REGARDING
PURCHASE OF WHOLESALE RECLAIMED WATER
AMONG
CALLEGUAS MUNICIPAL WATER DISTRICT,
TRIUNFO COUNTY SANITATION DISTRICT, AND
LAS VIRGENES MUNICIPAL WATER DISTRICT

This Agreement is made this 28th day of September, 1992 by and among Calleguas Municipal Water District, hereinafter referred to as "Calleguas", Triunfo County Sanitation District, hereinafter referred to as "Triunfo", and Las Virgenes Municipal Water District, hereinafter referred to as "LVMWD"

RECITALS

WHEREAS, Calleguas, as a member public agency of the Metropolitan Water District of Southern California ("Metropolitan"), is the sole wholesale purchaser and supplier within its service area of water developed, stored, and distributed by Metropolitan;

WHEREAS, Triunfo is authorized under Division 5, Part 3 of the California Health and Safety Code, commencing with Section 4700, to collect, treat and dispose of sewage and its by-products as well as distribute water for domestic and municipal purposes;

WHEREAS, LVMWD is authorized under the Municipal Water District Law of 1911 to develop and distribute water for domestic and municipal purposes as well as to collect, treat and dispose of sewage and its by-products;

WHEREAS, LVMWD as a member public agency of Metropolitan, is the sole purveyor within its service area of water developed, stored and distributed by Metropolitan;

WHEREAS, Triunfo and LVMWD have entered into a Joint Powers Agreement as authorized under Title 1, Division 7 of the California Government Code commencing with Section 6500 for the purpose of forming a Joint Venture ("Joint Venture") to transport and treat sewage, and disposing of its by-products through the use of jointly owned and operated facilities within their combined service areas;

WHEREAS, Joint Venture has obtained approval to distribute reclaimed water originating at the Tapia Water Reclamation Facility from the California Regional Water Quality Control Board - Los Angeles Region, pursuant to Order No. 87-86 ("Order") and any additional orders supplementary or amendatory thereof, attached for reference as Exhibit "A";

WHEREAS, Triunfo and LVMWD are empowered to enter into separate contracts necessary to carry out their purposes and to cooperate with other entities in regard to production and distribution of reclaimed water.

EXHIBIT "A"

AGREEMENT

NOW, THEREFORE, in consideration of the conditions set forth below, IT IS AGREED AS FOLLOWS:

1. This agreement shall cover the purchase, sale, transmission, and distribution of reclaimed water for the Oak Park/North Ranch Reclaimed Water Distribution Project and shall cover those areas shown on Exhibit "B" ("Project Service Area").
2. Joint Venture will be responsible for the design, construction, operation and maintenance for all facilities necessary to convey reclaimed water to the Project service area boundary of Calleguas.
3. Triunfo agrees to sell to Calleguas and Calleguas agrees to buy from Triunfo, reclaimed water in variable quantities up to and including all of Triunfo's entitlement with the Joint Venture to reclaimed water produced from the sewage originating within the Project portion of Triunfo's service area. Triunfo and Calleguas have reviewed the anticipated demands of the Project, and subject to any conditions or terms contained herein, Triunfo warrants its entitlement from the Joint Venture is adequate to meet those discussed and all anticipated demands on an annual basis.
4. There is a firm source of reclaimed water adequate on an annual basis to provide for the Project Service Area as well as the combined demands of all other projects and uses currently served by the Joint Venture.
5. All parties acknowledge that from time to time during certain peak demand periods, the quantity of reclaimed water available from the Tapia Water Reclamation Facility may not be adequate to meet the demands for reclaimed water by all projects and uses currently served by the Joint Venture; Triunfo, Las Virgenes Municipal Water District and the Joint Venture, shall be under no obligation to provide water from any supplemental sources to meet said demands.
6. The price per acre foot for the sale and purchase of the reclaimed water shall be the then current prevailing wholesale reclaimed water rate the Joint Venture charges to its participants plus a surcharge to be determined from time to time solely by Triunfo of not less than a total of ten (\$10) per acre foot nor more than five percent (5) of the Joint Venture wholesale rate per acre foot to pay for Triunfo's administrative, management, technical and related costs associated with its obligations under this agreement.
7. Triunfo and LVMWD acknowledge that Calleguas is under no obligation to purchase a minimum amount of reclaimed water and that no penalties will be incurred by Calleguas for not purchasing minimum amounts of reclaimed water.

8. Reclaimed water conveyance facilities within the Calleguas service area will be financed, designed, constructed, operated and maintained by Calleguas for wholesale delivery to its purveyors within the Project Service Area. Calleguas will negotiate separate agreements with its purveyors on a case by case basis for ultimate wholesale reclaimed water connection and service.
9. Calleguas acknowledges Triunfo and LVMWD have expended funds on planning and design for wholesale and retail delivery of reclaimed water with the Project area. Triunfo and LVMWD agree to have Calleguas take over sole responsibility for the delivery of wholesale reclaimed water within the Project Service Area.
10. Calleguas will reimburse Triunfo and LVMWD for all payments, documented via copies of invoices and canceled checks, made to third parties such as, but not limited to, planners, environmental consultants, engineers, geologists, appraisers, attorneys, landowners, etc., for their services or rights granted as the rights or services were related to the facilities needed for wholesale delivery of reclaimed water within the service area of Calleguas. As of July 1, 1992, these costs are estimated to be one million dollars (\$1,000,000), as shown in Exhibit "C". Calleguas acknowledges work is continuing on this project and additional expenses will be incurred by Triunfo and LVMWD up to the date of transfer of responsibility which expenses will be beneficial to the wholesale portions of the project within the Calleguas service area. It is the intent of the parties such additional costs will be included in the reimbursement to be paid from Calleguas to Triunfo and LVMWD.
11. Triunfo, acting on behalf of Joint Venture, has entered into an agreement with the Rancho Simi Recreation and Park District for the purpose of acquiring easements for portions of the Project wholesale facilities. Work on other easements is in progress with Pardee Construction Company and the Metropolitan Water Company. Triunfo agrees to acquire the easements and transfer its rights and obligations under those agreements to Calleguas at which time reimbursement of project payments as described in item 10 will be made.
12. Triunfo, LVMWD, Calleguas and Metropolitan have entered into an agreement providing for Metropolitan's financial support for the wholesale portion of Project. Triunfo and LVMWD agree to relinquish their interest in said agreement upon transfer of project responsibility to Calleguas which will occur upon reimbursement by Calleguas to Triunfo and LVMWD as described in item 10.

13. Delivery of reclaimed water to Calleguas will be from Joint Venture facilities commonly known as the Western Reclaimed Water System. The Joint Venture warrants sufficient minimum hydraulic grades will be maintained in the Western Reclaimed Water System under normal day to day operation, at the point of connection at the boundary of the Calleguas service area, to allow for adequate system delivery.
14. The Joint Venture warrants the quality of reclaimed water from the Tapia Water Reclamation Facility meets or exceeds all current federal, state, county and Joint Venture established standards as displayed in Exhibit "D". The Joint Venture agrees to defend, indemnify and hold harmless Calleguas, its Board of Directors and employees in the event any action or claim is made against Calleguas because the reclaimed water fails to meet the established standards set forth in Exhibit B. D. In the event a claim or action is brought against Calleguas relative to the sale, usage or distribution of reclaimed water within Calleguas' service area which has been purchased from Triunfo, Triunfo's obligation to defend, indemnify and hold harmless Calleguas, shall be discharged by Triunfo evidencing the reclaimed water has met the established standards set forth in Exhibit "D".
15. Calleguas warrants it is familiar with industry standards for the transmission storage, and distribution of reclaimed water. Calleguas agrees to defend, indemnify, and hold harmless Triunfo, its Board of Directors and employees as well as LVMWD, its Board of Directors and employees from any claim arising out of Calleguas' activities related to wholesaling reclaimed water to its purveyors.
16. Calleguas warrants it is familiar with applicable state statutes and regulations regarding permitted uses and monitoring those uses of reclaimed water and agrees to enforce said status and regulations with its purveyors in a manner that will not jeopardize Order and report its actions to Joint Venture as may be required to protect the Joint Venture's Order.
17. Calleguas agrees to adopt, as soon as practicable, a resolution covering at least the Project portion of its service area requiring maximum reclaimed water use by all of its purveyors to the extent such use is reasonable and reclaimed water is made available by Calleguas.
18. All parties acknowledge and agree the Project is not supported by Triunfo and/or LVMWD property taxes in any way, direct or indirect, and therefore the transfer of responsibility for the wholesale portion of the Project from Triunfo and LVMWD to Calleguas is not intended to involve the adjustment of the property taxes of any of the parties under the provisions of the California Revenue Code.

IN WITNESS WHEREOF, the parties hereto have executed this agreement on the day and year first above written.

APPROVED AS TO FORM:

CALLEGUAS MUNICIPAL WATER DISTRICT

By: Thomas A. DeSola
Legal Counsel

By: Donald R. Endall
General Manager

ATTEST:

TRIUNFO COUNTY SANITATION DISTRICT

By: Sherrill Smith
Sherrill Smith, CPS,
Clerk of the Board

By: Ronald Stark
Ronald Stark, Chairman

APPROVED AS TO FORM:

LAS VIRGENES MUNICIPAL WATER DISTRICT

By: Wayne K. Lemieux
Wayne K. Lemieux
District Counsel

By: Glen Peterson
Glen Peterson
President

ATTEST:

By: Harold V. Helsley
Harold V. Helsley
Secretary

State of California
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, LOS ANGELES REGION

ORDER NO. 87-86

WATER RECLAMATION REQUIREMENTS
FOR

LAS VIRGENES MUNICIPAL WATER DISTRICT
(Tapia Water Reclamation Facility)
(File No. 64-104)

The California Regional Water Quality Control Board, Los Angeles Region, finds:

1. Las Virgenes Municipal Water District (hereinafter referred to as "Reclaimer") operates Tapia Water Reclamation Facility, 731 Malibu Road, Calabasas, California, with a design flow of 8.0 million gallons per day, and reclaims up to 6.5 million gallons per day of municipal wastewater for commercial landscape irrigations, parks, school yard, green belt areas, golf course, and agricultural and pasture irrigation, compaction and dust control on construction projects under waste discharge requirements contained in Orders No. 74-381, 76-64, 76-126, and 77-54 (File 64-104) adopted by this Board on November 13, 1974, April 26, 1976, August 23, 1976, and February 28, 1977, respectively. The maximum discharge is approximately 1.6 million gallon per day during winter period and increases to 6.5 million gallons per day in the summer month.
2. A review of the current requirements has been conducted by Board staff in accordance with California Administration Code, Title 23, Chapter 3, Subchapter 9, Article 2, Section 2232.2.
3. The treated wastewater may also be discharged to Malibu Creek under separate waste discharge requirements and National Pollution Discharge Elimination System permit (NPDES Permit No. CA0056014) adopted by this Board.
4. The areas of reclaimed water uses are located within the Malibu Creek Hydrologic Subarea.
5. The Board adopted a Revised Water Quality Control Plan for Los Angeles River Basin on November 27, 1978. The Plan contains water quality objectives for ground water in Malibu Creek Hydrologic Subarea. The requirements contained in this Order, as they are met, will be in conformance with the goals of the Water Quality Control Plan.
6. Ground water in Malibu Creek Hydrologic Subarea is

beneficially used for agricultural supply.

7. Section 13523 of the California Water Code provides that a regional board, after consulting with and receiving the recommendations of the State Department of Health Services and after any necessary hearing, shall, if it determines such action to be necessary to protect the public health, safety, or welfare, prescribe water reclamation requirements for water which is used or proposed to be used as reclaimed water. Section 13523 further provides that such requirements shall include, or be in conformance with, the statewide reclamation criteria.
8. The use of reclaimed water for impoundments or for irrigation could affect the public health, safety, or welfare; requirements for such use are therefore necessary in accordance with Section 13523 of the Water Code.
9. This project involves an existing facility and as such is exempt from the provisions of the California Environmental Quality Act in accordance with California Administrative Code, Title 14, Chapter 3, Section 15301.

The Board has notified the Reclaimer and interested agencies and persons of its intent to prescribe water reclamation requirements for this direct beneficial use and has provided them with an opportunity to submit their written views and recommendations.

The Board in a public meeting heard and considered all comments pertaining to the direct beneficial use and to the tentative water reclamation requirements.

IT IS HEREBY ORDERED, that Las Virgenes Municipal Water District, shall comply with the following:

A. Reclaimed Water Limitations

1. Reclaimed water shall be limited to treated municipal wastewater only, as proposed.
2. Reclaimed water shall not contain constituents in excess of the following limits:

<u>Constituent</u>	<u>Unit</u>	<u>Maximum Limitations</u>
Total dissolved solids	mg/l	1000
Chloride	mg/l	175
Sulfate	mg/l	325

Boron mg/l 1.5

3. The pH of reclaimed water shall at all times be within the range 6.0 to 9.0.
4. Reclaimed water shall not contain trace constituents or other substances in concentrations exceeding the limits contained in the current edition of the California Department of Health Services Drinking Water Standards.
5. Radioactivity shall not exceed the limits specified in Title 22, Chapter 15, Article 5, Sections 64441 and 64443, California Administrative Code, or subsequent revisions.
6. Reclaimed water shall not cause the nitrogen content in the receiving ground water to exceed the objectives in the Water Quality Control Plan.
7. Reclaimed water, used as agricultural supply, shall not contain concentrations of chemical constituents in amounts that adversely affect such beneficial use.

B. Specifications for Use of Reclaimed Water

1. Reclaimed water used for the compaction and for the irrigation of golf courses, cemeteries, freeway landscapes, and landscapes in other areas where the public has similar access or exposure shall be at all times an adequately disinfected, oxidized wastewater.

The wastewater shall be considered adequately disinfected if the median number of coliform organisms in the effluent does not exceed 23 per 100 milliliters, as determined from the bacteriological results of the last 7 days for which analyses have been completed, and the number of coliform organisms does not exceed 240 per 100 milliliters in any two consecutive samples.

Oxidized wastewater means wastewater in which the organic matter has been stabilized, is nonputrescible, and contains dissolved oxygen.

Disinfected wastewater means wastewater in which the pathogenic organisms have been destroyed by chemical, physical or biological means.

2. Reclaimed water used for the irrigation of parks,

playgrounds, schoolyard, and other areas where the public has similar access or exposure shall be at all times an adequately disinfected, oxidized, coagulated, clarified, filtered wastewater or a wastewater treated by a sequence of unit processes that will assure an equivalent degree of treatment and reliability.

The wastewater shall be considered adequately disinfected if the median number of coliform organisms in the effluent does not exceed 2.2 per 100 milliliters, as determined from the bacteriological results of the last 7 days for which analyses have been completed, and the number of coliform organisms does not exceed 23 per 100 milliliters in any sample.

A coagulated wastewater means an oxidized wastewater in which colloidal and finely divided suspended matter have been destabilized and agglomerated by the addition of suitable floc-forming chemicals or by an equally effective method.

A filtered wastewater means an oxidized, coagulated, clarified wastewater which has been passed through natural undisturbed soils or filter media, such as sand or diatomaceous earth, so that the turbidity as determined by an approved laboratory method does not exceed an average operating turbidity of 2 turbidity units and does not exceed 5 turbidity units more than 5 percent of the time during any 24-hour period.

3. Reclaimed water used as a source of supply in a nonrestricted recreational impoundment shall be at all times an adequately disinfected, oxidized, coagulated, clarified, filtered wastewater.

The wastewater shall be considered adequately disinfected if at some location in the treatment process the median number of coliform organisms does not exceed 2.2 per 100 milliliters and the number of coliform organisms does not exceed 23 per 100 milliliters in more than one sample within any 30-day period. The median value shall be determined from the bacteriological results of the last 7 days for which analyses have been completed.

4. Reclaimed water used as a source of supply in a restricted recreational impoundment shall be at all times an adequately disinfected, oxidized wastewater.

The wastewater shall be considered adequately disinfected if at some location in the treatment process the median number of coliform organisms does not exceed 2.2 per 100 milliliters, as determined from the bacteriological results of the last 7 days for which analyses have been completed.

5. Reclaimed water used as a source of supply in a landscape impoundment shall be at all times an adequately disinfected, oxidized wastewater.

The wastewater shall be considered adequately disinfected if at some location in the treatment process the median number of coliform organisms does not exceed 23 per 100 milliliters, as determined from the bacteriological results of the last 7 days for which analyses have been completed.

6. Reclaimed water shall not be directly used for uses other than those enumerated above until requirements for these uses have been established by this Board in accordance with Section 13523 of the California Water Code, unless the Board waives such requirements or finds that the above cited standards are applicable to these uses.
7. Reclaimed water uses shall meet the requirements specified in the "Guidelines for Use of Reclaimed Water" issued by the State Department of Health Services.
8. Reclaimed water used for irrigation shall be retained on the areas of use and shall not be allowed to escape as surface flow except as provided for in a National Pollutant Discharge Elimination System Permit.

For the purpose of this requirement, however, minor amounts of irrigation return water from peripheral areas shall not be considered a violation of this Order provided the discharge meets the requirements contained in a National Pollutant Discharge Elimination System Permit issued to the Las Virgenes Municipal Water District (Tapia Water Reclamation Facility).

9. Reclaimed water shall be applied at such a rate and volume as not to exceed vegetative demand and soil moisture conditions. Special precautions must be taken to prevent clogging of spray nozzles, to prevent overwatering and to exclude the production of runoff.

Pipelines shall be maintained so as to prevent leaks.

10. Reclaimed water used for irrigation shall not be allowed to run off into recreational lakes unless it meets the criteria for such lakes.

C. General Requirements

1. The discharge or use of raw or inadequately treated sewage at any time is prohibited.
2. Reclaimed water shall not be used for irrigation during periods of extended rainfall and/or runoff.
3. Standby or emergency power facilities and/or sufficient capacity shall be provided for reclaimed water storage during rainfall or in the event of plant upsets or outages, and at times when spray irrigation cannot be practiced.
4. Reclaimed water use or disposal shall not result in earth movement in geologically unstable areas.
5. Adequate facilities shall be provided to protect the sewage treatment and reclamation facilities from damage by storm flows and runoff.
6. Adequate freeboard shall be maintained in reclaimed water storage pond to ensure that direct rainfall will not cause overtopping.
7. Neither treatment of waste nor any reclaimed water use or disposal shall cause pollution or nuisance.
8. Water reclamation and reuse or disposal shall not result in problems due to breeding of mosquitoes, gnats, midges, or other pests.
9. Reclaimed water use or disposal shall not impart tastes, odors, color, foaming, or other objectionable characteristics to receiving ground waters.
10. Reclaimed water use or disposal which could affect receiving ground waters shall not contain any substance in concentrations toxic to human, animal, or plant life.
11. Odors of sewage origin shall not cause a nuisance.

D. Provisions

1. A copy of these requirements shall be maintained at the reclamation facility so as to be available at all times to operating personnel.
2. In the event of any change in name, ownership, or control of these waste treatment and reclamation facilities, the Reclaimer shall notify this Board of such change and shall notify the succeeding owner or operator of the existence of this Order by letter, copy of which shall be forwarded to the Board.
3. In accordance with Section 13522.5 of the Water Code, the Reclaimer shall file a report of any material change or proposed change in character, location or volume of the reclaimed water or its use.
4. The Reclaimer shall file with the Board technical reports on self monitoring work performed according to the detailed specifications contained in the Monitoring and Reporting Programs, as directed by the Executive Officer.
5. The Reclaimer shall notify this Board by telephone within 24 hours of any violations of reclaimed water use conditions or any adverse conditions as a result of the use of reclaimed water from this facility; written confirmation shall follow within one week.
6. The Reclaimer shall notify Board staff by telephone immediately of any confirmed coliform counts that could cause a violation of the 7-day median limit, including the date(s) thereof. This information shall be confirmed in the next monitoring report; in addition, for any actual coliform limit violations that occurred, the report shall also include the reasons for the high coliform results, the steps being taken to correct the problem (including dates thereof), and the steps being taken to prevent a recurrence.
7. These requirements do not exempt the Reclaimer from compliance with any other laws, regulations, or ordinances which may be applicable; they do not legalize this reclamation facility, and they leave unaffected any further restraint on the use of reclaimed water at this site which may be contained on other statutes or required by other agencies.

8. The Reclaimer shall be responsible to insure that all users of reclaimed water comply with the specifications and requirements for such use.
9. This Order does not alleviate the responsibility of the Reclaimer to obtain other necessary local, state, and federal permits to construct facilities necessary for compliance with this Order; nor does this Order prevent imposition of additional standards, requirements, or conditions by any other regulatory agency. Expansion of this facility from its current capacity shall be contingent upon issuance of all necessary permits, including a conditional use permit.
10. Supervisors and operators of this publicly owned wastewater treatment plant shall possess a certificate of appropriate grade as specified in California Administrative Code, Title 23, Chapter 3, Subchapter 14, Section 2455 and 2460.
11. The Reclaimer shall provide to each user of reclaimed water from Tapia Water Reclamation Facility a copy of these requirements, to be maintained at the user's facility as to be available at all times to operating personnel.
12. For any extension of the reclaimed water system, the Reclaimer shall submit a report detailing the extension for the approval of the Executive Officer. Following construction, as built drawings shall be submitted to the Executive Officer for approval prior to use of reclaimed water.
13. The Reclaimer shall submit to the Board within 60 days of the adoption of this Order, a fail-safe procedure for approval by the Executive Officer.
14. Orders Nos. 74-38I, 76-64, 76-126, and 77-54 adopted by this Board on November 18, 1974, April 26, 1976, August 23, 1976, and February 28, 1977, are hereby rescinded.

Las Virgenes Municipal Water District, Tapia
Water Reclamation Facility

File No. 64-104

I, Robert P. Ghirelli, Executive Officer, do hereby certify that the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, Los Angeles Region, on June 22, 1987.

Robert P. Ghirelli
ROBERT P. GHIRELLI, D.Env.
Executive Officer

GK/

State of California
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD, LOS ANGELES REGION
MONITORING AND REPORTING PROGRAM NO. 6189
FOR

LAS VIRGENES MUNICIPAL WATER DISTRICT
(Tapia Water Reclamation Facility)
(File No. 64-104)

The Reclaimer shall implement this monitoring program on the effective date of this Order.

Monitoring reports shall be submitted by the dates in the following schedule:

<u>Reporting period</u>	<u>Report Due</u>
January - March	May 15
April - June	August 15
July - September	November 15
October - December	February 15

The first monitoring report under this program shall be submitted by August 15, 1987.

By March 1 of each year, the Reclaimer shall submit an annual report to the board. The report shall contain both tabular and graphical summaries of the monitoring data obtained during the previous year. In addition, the discharger shall discuss the compliance record and the corrective actions taken or planned which may be needed to bring the discharge into full compliance with the Requirements.

Values obtained for the NPDES monitoring report during periods of discharge to surface waters may be reported here in lieu of duplicate testing, if representative. However, non-NPDES self-monitoring reports shall be submitted separately from the NPDES monitoring reports.

Reclaimed Water Monitoring

A sampling station shall be established where representative samples of reclaimed water can be obtained. Reclaimed water samples may be obtained at a single station provided that station is representative of the quality at all discharge points. Each sampling station shall be identified. The following shall constitute the reclaimed water monitoring program:

<u>Constituent</u>	<u>Units</u>	<u>Type of Sample</u>	<u>Minimum Frequency of Analysis</u>
Turbidity ¹	NTU	continuous	-----
Total flow ²	gallon	continuous	-----
Coliform group ³	MPN/100ml	grab	daily
pH	pH units	grab	weekly
Total dissolved solids	mg/l	24-hr composite	monthly
Chloride	mg/l	24-hr composite	monthly
Sulfate	mg/l	24-hr composite	monthly
Arsenic	mg/l	24-hr composite	quarterly
Barium	mg/l	24-hr composite	quarterly
Cadmium	mg/l	24-hr composite	quarterly
Chromium	mg/l	24-hr composite	quarterly
Lead	mg/l	24-hr composite	quarterly
Mercury	mg/l	24-hr composite	quarterly
Selenium	mg/l	24-hr composite	quarterly
Silver	mg/l	24-hr composite	quarterly
Cyanide	mg/l	24-hr composite	quarterly
Nitrate	mg/l	24-hr composite	quarterly
Fluoride	mg/l	24-hr composite	quarterly
Radioactivity	pCi/l	24-hr composite	quarterly
Total identifiable			

¹Required only for applications having a turbidity limit. The average value recorded each day and amount of time that 5 NTU was exceeded each day shall be reported. Turbidity samples may be obtained anywhere in the treatment process subsequent to the filtration procedure.

²Shall report the daily volume of reclaimed water and the monthly volume used at each site.

³Samples shall be obtained at some point in the treatment process at a time when wastewater flow and characteristics are most demanding on the treatment facility and disinfection procedures. The location(s) of the sampling point(s) and any changes thereto must be approved by the Executive Officer, and proposed changes shall not be made until such approval has been granted. If reclaimed water is used for irrigation of golf courses, cemeteries, freeway landscapes, parks, playgrounds, schoolyards, or other areas where the public has similar access or exposure, samples shall be obtained subsequent to the chlorination procedure. Coliform values obtained must meet the strictest requirement specified for all uses during periods of multiple use, unless separate coliform analyses are obtained at each particular point of use.

chlorinated hydrocarbon	mg/l	grab	quarterly
Priority pollutants	ug/l	grab	semiannually

The report due in August or February shall contain the semiannual monitoring data.

General Provisions for Sampling and Analysis

All sampling, sample preservation, and analyses shall be performed in accordance with the latest edition of "Guidelines Establishing Test Procedures for Analysis of Pollutants", promulgated by the United States Environmental Protection Agency.

All chemical, bacteriological, and bioassay analyses shall be conducted at a laboratory certified for such analyses by the State Department of Health or approved by the Executive Officer.

General Provisions for Reporting

For every item where the requirements are not met, the Reclaimer shall submit a statement of the actions undertaken or proposed which will bring the discharge into full compliance with requirements at the earliest time and submit a timetable for correction.

The Reclaimer shall maintain all sampling and analytical results, including strip charts; date, exact place, and time of sampling; dates analyses were performed; analyst's name; analytical techniques used; and results of all analyses. Such records shall be retained for a minimum of three years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Board.

In reporting the monitoring data, the Reclaimer shall arrange the data in tabular form so that the date, the constituents, and the concentrations are readily discernible. The data shall be summarized to demonstrate compliance with Water Reclamation Requirements and, where applicable, shall include results of receiving water observations.

The Reclaimer shall file a report with this Board describing the purposes for which reclaimed water from this facility is used, estimating quantities used for each type of use, depicting on a map or drawing the area(s) of use, and stating the name and address of each user of reclaimed water if other than the Reclaimer. This report shall be updated at least annually, and shall be included with the annual report due March 1st each year.

Each quarterly report shall include a statement that all reclaimed water was used only as specified in the requirements during the quarter.

If no water was delivered for reuse during the quarter, the report shall so state.

Monitoring reports shall be signed by:

- a. In the case of corporations, by a principal executive officer at least of the level of vice-president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which discharge originates;
- b. In the case of a partnership, by a general partner;
- c. In the case of a sole proprietorship, by the proprietor;
- d. In the case of municipal, state or other public facility, by either a principal executive officer, ranking elected official, or other duly authorized employee.

Each report shall contain the following completed declaration:

"I declare under penalty of perjury that the foregoing is true and correct.

Executed on the _____ day of _____ at

(Signature)

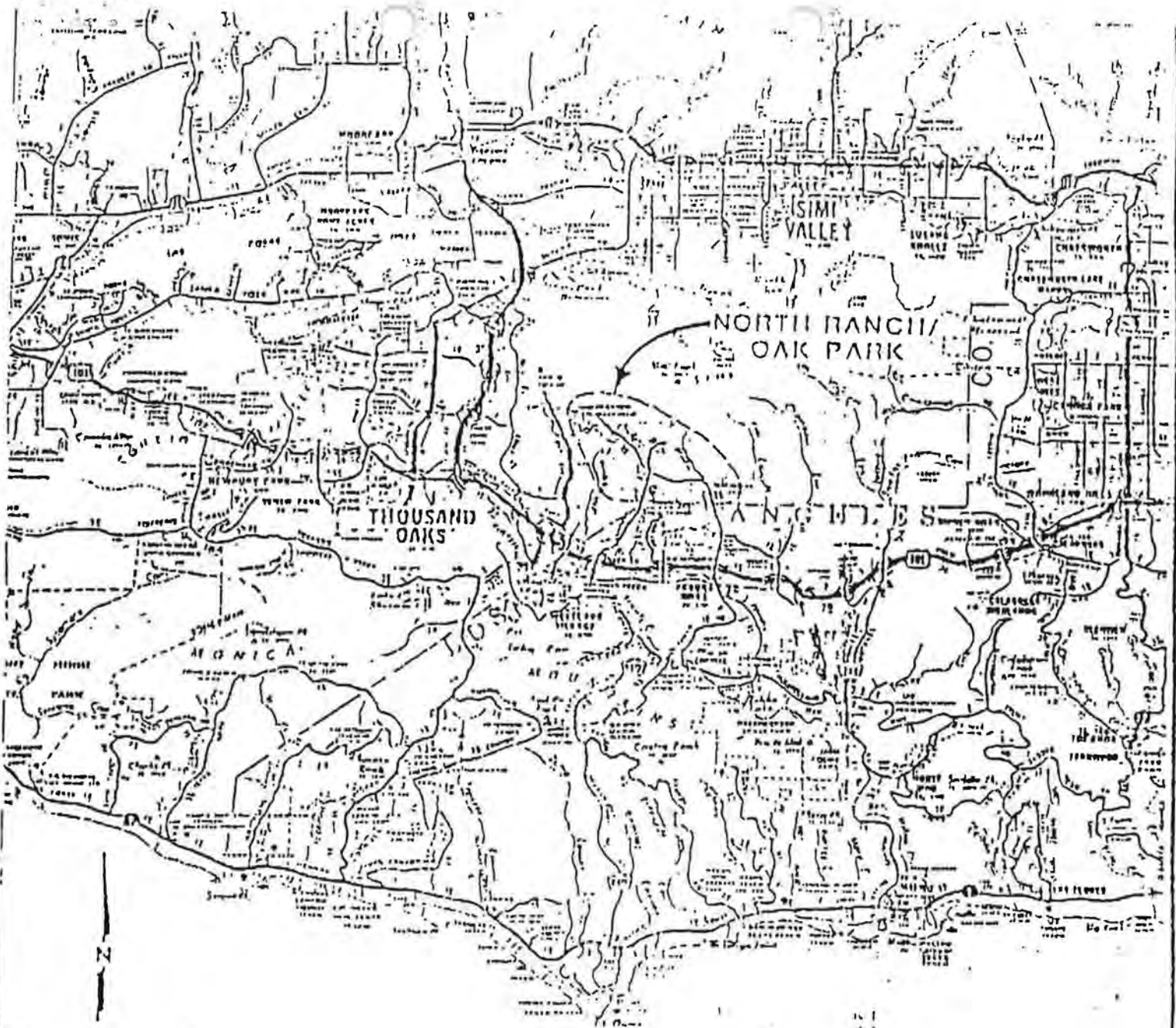
(Title)"

In accordance with Section 60323, Article 7, Title 22, California Administration Code, an engineering report on the entire Las Virgenes Water District reclaimed water system must be prepared and submitted to this Board and the California Department of Health Services (DOHS) within one year of the issuance of these requirements. This report shall follow "DOHS's Guidelines for the Preparation of an Engineering Report on the Production, Distribution and Use of Reclaimed Water."

Ordered by Robert P. Ghinelli
Executive Officer


June 22, 1987
Date

GK/



"PROJECT SERVICE AREA"

EXHIBIT "B"

LVMWD/TGSD JOINT VENTURE	
NORTH RANCH/OAK PARK MASTER PLAN	
VICINITY MAP	
	BOYLE ENGINEERING CORPORATION consulting engineers & architects
V.P. 13-100-01	FIGURE 1

TAPIA WATER RECLAMATION FACILITY
 Reclaimed Water Agricultural Suitability Analysis

AUG 26 1992

Sample Date _____
 Laboratory No. _____

07/1/92

01/16/92

Parameter	Unit	Result	Result	Date	QC Check
Total Dissolved Solids, Potable	mg/l	400	414		
Total Dissolved Solids, Effluent	mg/l	399	958		
pH		6.5	7.0		
Specific Conductivity	µmhos/cm	1340	1510		
Suspended Solids	mg/l	1.4	1.0		
Biochemical Oxygen Demand	mg/l	2.7	1.7		
Ammonia - Nitrogen	mg/l	0.15	0.16		
Nitrate - Nitrogen	mg/l	19.5	20.2		
Total Nitrogen	mg/l	20.7	21.2		
Phosphate - Phosphorus	mg/l	5.3	5.1		
Chloride	mg/l	100	168		
Sulfate	mg/l	297	342		
Boron	mg/l	0.8	0.33		
Fluoride	mg/l	0.4	NA		
Hardness	mg/l	395	NA		
Alkalinity	mg/l	72	86		
Calcium	mg/l	58	84		
Magnesium	mg/l	31	47		
Potassium	mg/l	11	12		
Sodium	mg/l	129	157		
Sodium Absorb. Ratio (S.A.R.)		3.4	3.4		
Modified S.A.R.					
Sodium Equivalence	%	56	52		

1 Monthly Average

2 Concentration not detected at or below Detection Limit of Reporting, 0.8 mg/l

EXHIBIT "D"

EXHIBIT B
DESCRIPTION OF LAKE SHERWOOD RECLAIMED WATER PIPELINE

The Lake Sherwood Line is a mortar lined steel pipeline and associated hardware (valves, blowoffs, air/vac devices, etc.) generally of 16-inch nominal diameter, extending from the Ventura/Los Angeles County boarder generally west under Agoura Road, thence southwest under Westlake Buelvard, thence east under Potrero Road, thence south and generally east under Lake Sherwood Drive, ending just upstream of the meter which serves the Lake Sherwood Country Club.

ASSIGNMENT & ASSUMPTION OF OBLIGATIONS UNDER MEMORANDUM OF UNDERSTANDING

This ASSIGNMENT AND ASSUMPTION (the “Agreement”) is entered into as of _____, 2017 (the “Effective Date”) between TRIUNFO SANITATION DISTRICT, a public agency in the State of California formed pursuant to California Health and Safety Code Section 4700 et seq., (“TSD”), CALLEGUAS MUNICIPAL WATER DISTRICT (“CALLEGUAS”), and LAS VIRGENES MUNICIPAL WATER DISTRICT (“LVMWD”) with reference to the following facts:

RECITALS

WHEREAS, TSD, CALLEGUAS and LVMWD are parties to the *Memorandum of Understanding Operations of the Joint Venture Recycled Water System* dated November 1997, (the “MOU”) a copy of which is attached hereto as Exhibit “A” which clarified certain operational, accounting, and payment responsibilities among the parties in connection with the operation of the Oak Park/North Ranch and Lake Sherwood recycled water facilities; and

WHEREAS, Pursuant to an *Agreement for Transfer of Recycled Water Facilities*, TSD is acquiring from CALLEGUAS, as of the Effective Date of this Agreement, all of CALLEGUAS’s rights in certain recycled water facilities including the Oak Park/North Ranch and Lake Sherwood recycled water facilities (the “TSD Purchase”); and

WHEREAS, pursuant to the TSD Purchase, CALLEGUAS is assigning and delegating to TSD all of CALLEGUAS’s rights and obligations under the MOU; and

WHEREAS, LVMWD desires to consent and agree to the assignment and delegation to TSD of all of CALLEGUAS’s rights and obligations under the MOU;

NOW, THEREFORE, in consideration of the mutual covenants and promises contained herein, and for other good and valuable consideration, the receipt, adequacy, and legal sufficiency of which are hereby acknowledged, the parties hereby agree as follows:

1. Defined Terms. Capitalized terms used herein and not otherwise defined herein will have the meanings ascribed to such terms in the MOU.
2. Assignment. As of the Effective Date, CALLEGUAS hereby assigns, sells, transfers, conveys, and delegates to TSD all of CALLEGUAS’ rights, interest, burdens, duties, obligations, and liabilities under and in connection with the MOU. Notwithstanding the foregoing, (a) CALLEGUAS shall remain liable under the MOU for any amounts accrued and payable by CALLEGUAS thereunder with respect to any period up to the Effective Date, and (b) CALLEGUAS shall remain entitled to, and TSD and LVMWD shall each remain liable to CALLEGUAS for, any amounts accrued and payable to CALLEGUAS by such party thereunder with respect to any period up to the Effective Date.

3. Acceptance and Assumption. TSD hereby accepts the assignment to TSD of all of CALLEGUAS' rights and interest in the MOU as provided in Section 2, above, and TSD hereby assumes and agrees to observe and perform all of the burdens, duties, obligations, liabilities, covenants and agreements of CALLEGUAS arising under or in connection with the MOU, from and after the Effective Date. In connection therewith, TSD covenants and agrees that it (a) approves, ratifies, confirms, and agrees to be bound by all of the terms, covenants, conditions and provisions of the MOU, and (b) will perform at its sole cost and expense all of the duties and obligations imposed on CALLEGUAS by the MOU.

4. Successor Memorandum of Understanding. It is the intention of TSD and LVMWD to enter into an updated MOU to reflect current operations. However, TSD and LVMWD acknowledge and agree that entering into such updated MOU is not a condition to the rights and obligations of the parties pursuant to this Agreement.

5. Indemnity. TSD shall defend, indemnify and hold harmless CALLEGUAS, its directors, officers, employees, agents, representatives, successors and assigns (collectively the "Indemnified Parties") from and against all claims, judgments, causes of action, costs, penalties, damages, losses, liabilities and expenses of any kind (including reasonable attorneys' fees) that may at any time be incurred by the Indemnified Parties, or any of them, arising from or related to any breach, default, non-performance, act, or omission in connection with the MOU.

6. Consent. LVMWD hereby consents to the assignment, delegation, and assumption provided in Sections 2 and 3 of this Agreement.

7. Release. Except for the obligations of the parties under this Agreement, TSD hereby releases and forever discharges CALLEGUAS from all of its burdens, duties, expenses, damages, obligations, liabilities, covenants and agreements arising under the MOU. TSD acknowledges that it is aware of the meaning and legal effect of California Civil Code Section 1542, which provides:

“A General Release does not extend to claims which the creditor does not know or suspect to exist in his or her favor at the time of executing the Release, which if known by him or her must have materially affected his or her settlement with the debtor.”

To the fullest extent permitted by applicable law, TSD waives the benefits of California Civil Code Section 1542 and all other statutes and judicial decisions of similar effect with regard to the discharge and release of claims contained in this Section.

8. Obligations Limited to TSD. This Agreement is executed by LVMWD in its separate capacity as a signatory to the MOU, and as Administering Agent of the Joint Venture formed by LVMWD and TSD as referred to in the MOU solely to provide the consent in Section 6 of this Agreement. No obligation created by this Agreement shall be obligations of LVMWD or the Joint Venture.

9. Further Assurances. Each of the parties hereto covenants and agrees, at its own expense, to execute and deliver, at the request of the other party hereto, such further instruments of transfer and assignment and to take such further action as such other party may reasonably request to more effectively consummate the assignments and assumptions contemplated by this Agreement.

10. Miscellaneous.

(a) Counterparts. This Agreement may be executed in any number of counterparts (including by facsimile or other electronic transmission), each of which will be deemed an original, but such counterparts together will constitute one and the same instrument.

(b) Applicable Law. This Agreement shall be governed by and construed in accordance with the laws of the State of California. To the fullest extent permitted by law, any legal action arising from this Agreement shall be brought in the appropriate forum in Ventura County, California, which the parties agree will be the sole venue for all such actions.

(c) Attorneys' Fees. In the event that any dispute between the Parties arising under this Agreement results in litigation or arbitration, the prevailing Party in such dispute shall be entitled to recover from the other Party all reasonable fees, costs and expenses (including attorney's fees) incurred in such action.

(d) Authorization. Each party represents and warrants to the other that the execution and performance of this Agreement (1) is within its powers, (2) has been duly authorized by all necessary actions on its behalf and all necessary consents or approvals have been obtained and are in full force and effect; and (3) binds said party and its respective officers, directors, agents, employees, successors, assigns, and any others who may claim through it under this Agreement.

(e) Recitals. All Recitals set forth above are intended to be and hereby are specifically made a part of this Agreement.

(f) Construction. The parties acknowledge and agree that (i) each party is of equal bargaining strength, (ii) each party has actively participated in the negotiation of this Agreement, and (iii) each party has consulted with such party's own, independent counsel, and such other professional advisors as such party has deemed appropriate, relative to any and all matters contemplated under this Agreement.

(g) Amendment. This Agreement may only be modified or amended in writing signed by each party.

(h) Severability. If any provision in this Agreement is held by any court of competent jurisdiction to be invalid, illegal, void, or unenforceable, such portion shall be deemed severed from this Agreement, and the remaining provisions shall nevertheless continue in full force and effect.

(i) Fees and Other Expenses. Except as otherwise specifically provided in this Agreement, each Party shall pay its own fees and expenses in connection with the negotiation and consummation of this Agreement.

(j) Joint Drafting. This Agreement has been jointly negotiated and drafted. The language of this Agreement shall be construed as a whole according to its fair meaning and not strictly for or against any Party. Each party acknowledges that they have been represented by independent legal counsel in connection with this Agreement.

IN WITNESS WHEREOF, the parties have executed this Assignment & Assumption of Memorandum of Understanding as of the Effective Date in Ventura County, California.

Dated: _____, 2017

CALLEGUAS MUNICIPAL WATER DISTRICT

By: _____

Its: _____

Dated: _____, 2017

TRIUNFO SANITATION DISTRICT

By: _____

Its: _____

Dated: _____, 2017

LAS VIRGENES MUNICIPAL WATER DISTRICT

By: _____

Its: _____

Exhibit A

Copy of MOU

(See Attached)

**Memorandum of Understanding
Operations of the Joint Venture Recycled Water System
Las Virgenes MWD, Triunfo SD, Calleguas MWD
November 1997**

In effort to maximize the beneficial reuse of water resources, the Joint Venture of Las Virgenes Municipal Water District (LVMWD) and Triunfo Sanitation District (TSD) have joined with Calleguas Municipal Water District (CMWD) to expand use of recycled and other non-potable water through large sections of their service areas. Limitations of supplies and facilities require prudent management of the distribution of this water to insure maximum benefit and availability. To assist in this, the parties have agreed to define the following roles and responsibilities.

It is intended this document should be regularly updated and modified as required to continue to maximize mutual benefit and reliability by agreement of all parties.

Las Virgenes Municipal Water District (LVMWD)

Contact: ~~Lin Scuderi~~ (818) ~~880-4110 ext. 235~~ 251-2238
Roger Huff Fax (818) ~~880-1404~~ 251-2209

1. LVMWD will be responsible to optimize supply of Joint Venture non-potable water to meet anticipated demands throughout the Joint Venture service area. Further, LVMWD will optimize pressure within the associated distribution system in Los Angeles County to supply established TSD/CMWD connections at the Los Angeles/Ventura County Lines at or above minimum pressures. These pressures are to be 107 psi at Agoura Road in Westlake Village and 94 psi at Kanan Road in Agoura Hills. This will include:
 - a. Optimal operation of the reclaimed water pump stations (RWPS) at LVMWD Headquarters (4232 Las Virgenes Road).
 - b. Monitoring water production at the Tapia Water Reclamation Facility, minimizing losses to various discharges and optimizing water delivery.
 - c. Supplementing recycled water supplies with water from the Westlake Wells, consistent with quality constraints.
 - d. Supplementing recycled and well water supplies with potable water added either at the Cordillera Tank or Reservoir No. 2 when non-potable supplies are not available in adequate supply.

2. On a monthly basis LVMWD will determine the relative wastewater flow received from the TSD service area as a percentage of the total flow received at the Tapia

facility (corrected for flows from the Westlake wells). TSD flow will be based on the monitoring of flow stations at the district boundary (La Vienta, Oak Park, and C-4/North Ranch) and calculations consistent with current billing procedures. This percentage will be applied against daily total flows into the Tapia facility to determine recycled water daily volumes available to the TSD and LVMWD areas during the subsequent month. LVMWD will prepare and transmit to TSD via FAX a monthly report that summarizes:

Daily Total Flow to the Tapia Facility during the Previous Month

Daily flows from the Westlake Wells to sewer and/or directly into the reclaimed water system.

The Daily Available Supply (DAS) of non-potable water for each day of the just completed month. The DAS shall be equal to the daily total sewage flow to the Tapia facility (adjusted for loss of solids and reclaimed water used at the Tapia and Rancho Las Virgenes facilities) plus production from the Westlake Wells discharged directly to the reclaimed water system.

Monthly total TSD and Tapia sewage flow for the month to be used to establish the allocation of the DAS.

The daily calculated TSD allocation of the DAS for the just completed month, the actual TSD use, and any differential.

Monthly Total TSD and Tapia sewage flow for the just completed month (to be used for the subsequent month's allocation).

3. On days where potable water is utilized to supplement non-potable supplies, LVMWD will determine if this need was caused by usage in the TSD and/or LVMWD areas exceeding the allocated DAS for each area calculated per Section 2. All parties will be notified of the determination on the following day via fax.

LVMWD/TSD/CMWD MOU

November 1997

Page 3

4. LVMWD and/or TSD (whichever is responsible for additional usage) will be responsible to make operational adjustments within their service area, implement conservation measures, and/or purchase supplemental potable water from LVMWD to compensate for the excess usage. Purchase of supplemental water from LVMWD is implied by use of non-potable water within the applicable service area in excess of the allocations as defined in Section 2. Alternately, either party may compensate for usage above their allocation by using less than their allocation during any six (6) day period immediately following the first day of usage above their allocation, provided it is mutually agreeable to all parties in advance.
5. Potable water purchased from LVMWD shall be billed at the average rate charged to all LVMWD potable water customers during that same month. This rate shall apply to all excess water used as defined in Section 4 within the LVMWD and TSD service areas.
6. LVMWD will maintain and promptly repair facilities to provide optimum system reliability. LVMWD will provide TSD and CMWD prompt notification via telephone when failure and/or maintenance of the system is anticipated to limit the system's ability to deliver water to TSD, consistent with typical seasonal demand and required pressures. In these cases and on request, LVMWD will provide TSD with available options for supply of additional water (if any) and associated pricing. LVMWD will also cooperatively implement available conservation measures, where these will also mitigate temporary short deliveries.

Calleguas Municipal Water District/Triunfo Sanitation District

Contacts:	Calleguas	Operations	(805) 579-7137
		FAX	(805) 526-4953
	Triunfo	Mark Capron	(805) 658-4606
		FAX	(805) 658-4633

1. CMWD will operate the Mae Boyer (Oak Park) Pump Station in a manner to minimize significant change in daily flow patterns. Changes in operational scenarios, which will result in flow and demand variation, are to be promptly (day before or same day) communicated by fax to LVMWD and TSD.

2. CMWD has implemented control via instrumentation at the Mae Boyer site to monitor suction pressure and level of the Joint Venture Indian Hills Reclaimed Water Tank. CMWD will reduce or terminate pumping if these parameters fall below:

Indian Hills Tank Level	6 ft. (Alarm at 10 ft.)
Mae Boyer Suction Pressure	55 psi

3. CMWD will implement real-time monitoring of the flow control/metering station on Agoura Road at the county line in Westlake Village no later than June 30, 1998. Data from this monitoring will be made available to LVMWD via mutually compatible real time telemetry. Data is to include flow rate and system pressure (LVMWD side).

4. CMWD/TSD will establish contingency plans which can be implemented should supplies from LVMWD be interrupted or curtailed. These plans are to be implemented given notice by LVMWD. These plans may include:


- Alternate local supplies (including substituting potable supplies for North Ranch Country Club.
- Conservation Plans coordinated with major customers.
- Monitoring of critical uses.
- Coordination of customer use schedules.



Las Virgenes Municipal Water District



Triunfo Sanitation District



Calleguas Municipal Water District

CONSENT

LAS VIRGENES MUNICIPAL WATER DISTRICT ("LVMWD") hereby consents and agrees as follows:

1. LVMWD has executed the *Assignment & Assumption of Obligations Under Memorandum of Understanding* (the "Assignment") and the *Agreement Terminating Agreement Regarding Purchase of Wholesale Reclaimed Water* (the "Termination Agreement") each of which is being entered into among LVMWD, CALLEGUAS MUNICIPAL WATER DISTRICT ("CALLEGUAS"), and TRIUNFO SANITATION DISTRICT ("TSD") in connection with the proposed transfer of certain recycled water facilities by CALLEGUAS to TSD pursuant to the *Agreement for Transfer of Recycled Water Facilities* between CALLEGUAS and TSD (the "Purchase Agreement").

2. The Assignment and Termination Agreement are to become effective upon Closing the transfer under the Purchase Agreement (as defined therein).

3. LVMWD has delivered to TSD three original signature pages to the Assignment and the Termination Agreement which have been executed by LVMWD (the "LVMWD Signatures"). TSD shall deliver the LVMWD signatures to CALLEGUAS to be held by CALLEGUAS (along with the TSD and CALLEGUAS signatures) in "escrow" pending the Closing.

4. Upon Closing, the Assignment and Termination Agreement shall take effect and CALLEGUAS is authorized to insert the Closing date as the Effective Date on each document and release all signatures from escrow.

Dated: _____, 2017

LAS VIRGENES MUNICIPAL WATER DISTRICT

By: _____

Its: _____

Exhibit A

Copy of MOU

(See Attached)

INFORMATION ONLY

April 3, 2017 JPA Board Meeting

TO: JPA Board of Directors

FROM: Facilities & Operations

Subject : Rancho Las Virgenes Composting Facility: Biofilter Maintenance

The Las Virgenes-Triunfo Joint Powers Authority (JPA) approved funding for this matter in the JPA Budget. On March 14, 2017, the LVMWD Board, as the Administering Agent of the JPA, authorized the General Manager to approve a purchase order to Viramontes Express, in the amount of \$35,058.67, for the supply of new biofilter media and removal of the spent media.

SUMMARY:

The biofilter at the Rancho Las Virgenes Composting Facility requires periodic replacement of the wood chip media to meet air quality permit requirements. The biofiltration process uses the wood chip media as a substrate for organisms, which remove ammonia and volatile organic compounds from the foul air generated by the composting process. The media breaks down over time and needs to be replaced.

On November 1, 2016, a request for quotations for the supply of biofilter media was placed on the District's website. No quotations were received by the November 30th due date, so staff contacted Viramontes Express, who had previously supplied the media. A quotation was received on February 7, 2017, for the supply and staging of biofilter media and removal of the spent media, in the amount of \$35,058.67, including tax.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

Sufficient funds are available in the adopted Fiscal Year 2016-17 JPA Budget, which includes \$100,000 for odor control at the Rancho Las Virgenes Composting Facility.

Prepared by: Brett Dingman, Water Reclamation Manager

INFORMATION ONLY

April 3, 2017 JPA Board Meeting

TO: JPA Board of Directors

FROM: Facilities & Operations

Subject : Rancho Las Virgenes Composting Facility: Contract Award for Amendment Supply

The Las Virgenes-Triunfo Joint Powers Authority (JPA) approved funding for this matter in the JPA Budget. On February 14, 2017, the LVMWD Board, as Administering Agent of the JPA, authorized the General Manager to execute a one-year contract, with three one-year renewal options, to B&B Pallet for the supply of amendment at \$10.60 per cubic yard.

SUMMARY:

On December 2, 2013, the Board awarded a contract to B&B Pallet to supply wood chip amendment for the production of compost and haul away excess compost at the Rancho Las Virgenes Composting Facility. The contract term has expired after execution of two optional one-year renewals.

A request for quotations for the supply of amendment was issued and placed on the District's website on December 19, 2016. The task of hauling away excess compost was removed from the request because operational adjustments have reduced the amount of compost produced and customer demand for compost has increased.

On January 25, 2017, two quotes were received. B&B Pallet provided a price of \$10.60 per cubic yard, and USA Shavings provided a price of \$11.00 per cubic yard. Staff recommended the award of a one-year contract, with three one-year renewal options, to B&B Pallet for the supply of amendment.

FISCAL IMPACT:

Yes

ITEM BUDGETED:

Yes

FINANCIAL IMPACT:

The annual cost of amendment is approximately \$195,000. Sufficient funding is available in

the adopted Fiscal Year 2016-17 JPA Budget for the purchase of amendment. The costs for amendment purchases are allocated 70.6% to LVMWD and 29.4% to Triunfo Sanitation District.

Prepared by: Brett Dingman, Water Reclamation Manager