AGENDA FOR A REGULAR MEETING OF THE BOARD OF DIRECTORS OF THE VALLECITOS WATER DISTRICT WEDNESDAY, MARCH 15, 2017, AT 5:00 P.M. AT THE DISTRICT OFFICE 201 VALLECITOS DE ORO, SAN MARCOS, CALIFORNIA

CALL TO ORDER - PRESIDENT ELITHARP

PLEDGE OF ALLEGIANCE

ROLL CALL

In the case of an emergency, items may be added to the Agenda by a majority vote of the Board of Directors. An emergency is defined as a work stoppage; a crippling disaster; or other activity which severely imperils public health, safety, or both. Also, items which arise after the posting of the Agenda may be added by a two-thirds vote of the Board of Directors.

ADOPT AGENDA FOR THE REGULAR MEETING OF MARCH 15, 2017

PUBLIC COMMENT

Persons wishing to address a matter not on the Agenda may be heard at this time; however, no action will be taken until the matter is placed on a future agenda in accordance with Board policy. Public comments are limited to three minutes. A Request to Speak form is required to be submitted to the Executive Secretary prior to the start of the meeting, if possible. Public comment should start by stating name, address and topic. The Board is not permitted during this time to enter into a dialogue with the speaker.

NOTICE TO THE PUBLIC

All matters listed under the Consent Calendar will be voted upon by one motion. There will be no separate discussion of these items, unless a Board member or member of the public requests that a particular item(s) be removed from the Consent Calendar, in which case it will be considered separately under Action Items.

CONSENT CALENDAR

- 1.1 APPROVAL OF MINUTES (pp. 5-17)
 - A. CLOSED SESSION BOARD MEETING FEBRUARY 15, 2017
 - B. REGULAR BOARD MEETING FEBRUARY 15, 2017
 - C. FINANCE/INVESTMENT COMMITTEE MEETING FEBRUARY 22, 2017

Approved minutes become a permanent public record of the District.

Recommendation: Approve Minutes

1.2 WARRANT LIST THROUGH MARCH 15, 2017 – \$3,458,686.66 (pp. 18-23)

Recommendation: Approve Warrant List

- 1.3 FINANCIAL REPORTS (pp. 24-34)
 - A. WATER METER COUNT FEBRUARY 28, 2017
 - B. WATER PRODUCTION/SALES REPORT 2016/2017
 - C. WATER REVENUE AND EXPENSE REPORT FEBRUARY 28, 2017
 - D. SEWER REVENUE AND EXPENSE REPORT FEBRUARY 28, 2017
 - E. RESERVE FUNDS ACTIVITY FEBRUARY 28, 2017
 - F. INVESTMENT REPORT FEBRUARY 28, 2017
- 1.4 WINTER 2017 BETWEEN THE PIPES VALLECITOS WATER DISTRICT QUARTERLY NEWSLETTER (pp. 35-38)

Recommendation: Approve Winter 2017 Between the Pipes Newsletter

*****END OF CONSENT CALENDAR*****

ACTION ITEMS

2.1 PUMP ZONE CHARGES (pp. 39-44)

Surcharges are intended to recover the cost of electricity used to pump water to higher pressure zones.

Recommendation: Direction on the Board's preferred methodology for:

- 1) Pump charge allocation
- 2) When surcharges should become effective
- 3) Should there be a phased implementation for the revised surcharges
- 2.2 CHANGE ORDER REQUEST FOR MEADOWLARK WATER RECLAMATION FACILITY (MRF) TERTIARY MEDIA FILTER REPLACEMENT (pp. 45-48)

District Ordinance No. 146 requires Board approval for change orders exceeding 10% of the contract value.

Recommendation: Approve construction change order

2.3 2017 COST OF SERVICE AND RATE STRUCTURE STUDY REVIEW AND UPDATE (pp. 49-67)

Board consensus was to proceed with a water rate structure tiered by customer classes according to meter size.

Recommendation: For discussion only

2.4 RESOLUTION CONCURRING IN NOMINATION TO THE EXECUTIVE COMMITTEE OF THE ASSOCIATION OF CALIFORNIA WATER AGENCIES/JOINT POWERS INSURANCE AUTHORITY (ACWA/JPIA) (pp. 68-72)

San Bernardino Valley Water Conservation District is requesting Vallecitos Water District concur in the nomination of Melody McDonald to the Executive Committee of the ACWA/JPIA.

Recommendation: Request Board direction

*****END OF ACTION ITEMS*****

REPORTS

- 3.1 GENERAL MANAGER
- 3.2 DISTRICT LEGAL COUNSEL
- 3.3 SAN DIEGO COUNTY WATER AUTHORITY
- 3.4 ENCINA WASTEWATER AUTHORITY
 - Capital Improvement Committee
 - Policy and Finance Committee
- 3.5 STANDING COMMITTEES
- 3.6 DIRECTORS REPORTS ON MEETINGS/CONFERENCES/SEMINARS ATTENDED

*****END OF REPORTS*****

OTHER BUSINESS

4.1 MEETINGS (pp. 73-74)

SDNEDC North County Economic Summit

April 12, 2017 - CSU San Marcos

WEF Headwaters Tour

April 27-28, 2017 – begins/ends at Sacramento International Airport

*****END OF OTHER BUSINESS*****

5.1 DIRECTORS COMMENTS/FUTURE AGENDA ITEMS

*****END OF DIRECTORS COMMENTS/FUTURE AGENDA ITEMS*****

6.1 ADJOURNMENT

*****END OF AGENDA****

If you have any disability which would require accommodation in order to enable you to participate in this meeting, please call the Executive Secretary at 760.744.0460 ext. 264 at least 48 hours prior to the meeting.

Audio and video recordings of all Board meetings are available to the public at the District website www.vwd.org

AFFIDAVIT OF POSTING

·	ne Vallecitos Water District, hereby certify that I outside display case at the District office, 201
Vallecitos de Oro, San Marcos, California by	•
	Diane Posvar

MINUTES OF A CLOSED SESSION MEETING OF THE BOARD OF DIRECTORS OF THE VALLECITOS WATER DISTRICT TUESDAY, FEBRUARY 15, 2017, AT 4:30 PM AT THE DISTRICT OFFICE, 201 VALLECITOS DE ORO, SAN MARCOS, CALIFORNIA

President Elitharp called the Closed Session meeting to order at the hour of 4:37 p.m.

Director Hernandez led the pledge of allegiance.

Present: Director Elitharp

Director Evans
Director Hernandez
Director Martin

Director Sannella (arrived at 4:45 p.m.)

Staff Present: General Manager Pruim

Legal Counsel Scott

Executive Secretary Posvar

ADOPT AGENDA FOR THE CLOSED SESSION MEETING OF FEBRUARY 15, 2017

17-02-10 MOTION WAS MADE by Director Hernandez, seconded by Director Evans, and carried unanimously to adopt the agenda for the Closed Session Meeting of February 15, 2017.

PUBLIC COMMENT

None.

CLOSED SESSION

<u>CLOSED SESSION PURSUANT TO GOVERNMENT CODE SECTION 54957 – GENERAL MANAGER</u>

17-02-11 MOTION WAS MADE by Director Hernandez, seconded by Director Evans, and carried unanimously, with Director Sannella absent, to move into Closed Session pursuant to Government Code Section 54957.

REPORT AFTER CLOSED SESSION

The Board reconvened to Open Session at the hour of 4:50 p.m. The Board, in Closed Session, directed staff to bring back a cost of living adjustment to the General Manager's employment agreement at a future meeting.

ADJOURNMENT

There being no further business to discuss, President Elitharp adjourned the Closed Session Meeting of the Board of Directors at the hour of 4:51 p.m.

A Regular Meeting of the Vallecitos Water District Board of Directors has been scheduled for Wednesday, February 15, 2017, at 5:00 p.m. at the District office, 201 Vallecitos de Oro, San Marcos, California.

Craig Elitharp, President

Board of Directors Vallecitos Water District

ATTEST:

Glenn Pruim, Secretary Board of Directors Vallecitos Water District

MINUTES OF A REGULAR MEETING OF THE BOARD OF DIRECTORS OF THE VALLECITOS WATER DISTRICT WEDNESDAY, FEBRUARY 15, 2017, AT 5:00 PM AT THE DISTRICT OFFICE, 201 VALLECITOS DE ORO, SAN MARCOS, CALIFORNIA

President Elitharp called the Regular meeting to order at the hour of 5:00 p.m.

Director Martin led the pledge of allegiance.

Present: Director Elitharp

Director Evans
Director Hernandez
Director Martin
Director Sannella

Staff Present: General Manager Pruim

Assistant General Manager Scaglione

Legal Counsel Scott District Engineer Gumpel Finance Manager Fusco

Operations & Maintenance Manager Pedrazzi Development Services Senior Engineer Scholl

Accounting Supervisor Owen

Public Information/Conservation Supervisor Robbins

Financial Analyst Arthur Executive Secretary Posvar

Others Present: Mike Steinlicht, General Manager, Encina Wastewater Authority

James Kearns, Budget Manager, Encina Wastewater Authority

Joe Spence, Encina Wastewater Authority

Scott Goldman, Principal, RMC Water and Environment

Nathan Chase, RMC Water and Environment

Ken Weinberg, Retired, San Diego County Water Authority

ADOPT AGENDA FOR THE REGULAR MEETING OF FEBRUARY 15, 2017

17-02-12 MOTION WAS MADE by Director Sannella, seconded by Director

Hernandez, and carried unanimously, to adopt the agenda for the Regular

Board Meeting of February 15, 2017.

PRESENTATIONS

President Elitharp presented Ivan Murguia, Wastewater Treatment Plant Operator II, with his Certificate of Competence for Grade IV Wastewater Treatment Plant Operator from the State Water Resources Control Board.

President Elitharp presented David Joiner, Electrical/Instrumentation Technician, with his Certificate of Completion for Programmable Logic Controller II Certificate.

Mike Steinlicht, General Manager for Encina Wastewater Authority (EWA), introduced Scott Goldman, Principal, RMC Water and Environment, who along with Nathan Chase also of RMC and Ken Weinberg, retired from the San Diego County Water Authority, provided a presentation to update the Board on EWA's Water Pollution Control Facility (EWPCF) Water Reuse Feasibility Study which included the following:

- Project Feasibility Requirements
- EWPCF Projected Flows
- Available EWPCF Effluent in 2040
- EWPCF 2040 Projected NPR + IPR/DPR
- Projected Wastewater Flow (from North San Diego Water Reuse Coalition)
- Potential Recycled Water Demand (from NSDWRC)
- Regional Context for Reuse Project
- EWA Options for Reuse
- Portfolio of Options 2040 Flows
- Screening Criteria for Potable Reuse Options
- Screening Criteria, Weighting, and Scoring
- Options Ranking
- Preferred Options for Further Analysis
- Stakeholder Outreach
- Water Reuse Project Considerations for EWA and Partnering Water Purveyor(s)
- Timeline of Stakeholder Activities

General discussion and question/answer took place.

Mr. Steinlicht introduced Joe Spence and James Kearns who provided a presentation on EWA's FY2018 Proposed Capital Program Budget detailing the following:

- Budget Process
- FY2018 Budget Summary
- EWA Operating Expenses
- Capital Program
- Capital Expense Categories
- EWA Capital Expenses
- Looking Forward
- FY2018 2023 Projects Overall Cost Summary
- CIP Budget Summary by Process Area
- FY2018 Projects Overall Cost Summary
- Summary of Capital Expenses

General discussion and question/answer took place.

PUBLIC COMMENT

Mike Hunsaker, member of the public, addressed the Board expressing his concerns regarding the amount of wastewater treatment the District has, the developer deferred fee payment plan, the public's ability to participate in the rate process, the amount of solid waste there is and the possibility of the Oroville Dam failing. He thanked the Board.

CONSENT CALENDAR

President Elitharp stated he received a request to speak on Item 1.1. Director Martin requested Item 1.3 be pulled from the Consent Calendar for discussion.

17-02-13 MOTION WAS MADE by Director Martin, seconded by Director Sannella, and carried unanimously, to approve Item 1.2 of the Consent Calendar as presented.

1.1 Approval of Minutes

- A. Finance/Investment Committee Meeting January 24, 2017
- B. Board Workshop Meeting February 1, 2017
- C. Regular Board Meeting February 1, 2017

Mike Hunsaker, member of the public addressed the Board stating that since there were two very long meetings of great importance, he checked the video archives to review what he and others said during those meetings. He found that as of last night, for about five weeks a lot of the archived video/audio has been "pending." He was informed there was an issue of whether or not there was a problem with the synchronization of the audio with the video and asked how much longer it would be before this problem was corrected. He has some potential discrepancies about the minutes he would like to discuss, but has no means of double checking exactly what he said. He'd like to have the minutes carried through until the videos and audio are available on the public website.

Executive Secretary Posvar responded to Mr. Hunsaker's concern, stating that the minutes are not posted on the District's website until they are approved by the Board. For example, the minutes included in today's Board agenda packet will be posted after they are approved. As for the archived videos, Director Sannella verified that they are up to date with the exception of the Board workshop which took place on February 13.

Director Martin stated that Item 1.1 C, section 1.3 of the minutes of the February 1, 2017 Regular Board meeting should be corrected to state that he had received a donation in the form of a check from Rancho Coronado, not Rachel Coronado.

- MOTION WAS MADE by Director Martin, seconded by Director Sannella, and carried unanimously, to approve Items 1.1 and 1.3 of the Consent Calendar with the amendment to the February 1, 2017 minutes as discussed.
- 1.2 Warrant List through February 15, 2017 \$1,701,240.20
- 1.3 Financial Reports
 - A. Water Meter Count January 31, 2017
 - B. Water Production/Sales Report 2016/2017
 - C. Water Revenue and Expense Report January 31, 2017
 - D. Sewer Revenue and Expense Report January 31, 2017
 - E. Reserve Funds Activity January 31, 2017
 - F. Quarterly Investment Report

ACTION ITEMS

RESCINDING DROUGHT LEVEL 1

Public Information/Conservation Supervisor Robbins stated that on January 26, 2017, the San Diego County Water Authority (SDCWA) declared the drought over in San Diego County. Neither the SDCWA nor Vallecitos are experiencing supply shortages due to drought. The District met its mandatory savings target after the state imposed emergency regulations in 2015, and in May 2016, when the state updated its emergency regulation to a water supply "stress test" methodology that took actual levels of local supply reliability into account, the District showed sufficient supplies to avoid shortages even if it experiences three more dry years.

He further stated that as of February 1, 2017, the Sierra Nevada snowpack was 177% of the historic average, the largest amount in more than two decades. There is no need at this time to demand reductions from the District's customers; however, District Ordinance No. 198 includes mandatory water use restrictions such as watering between the hours of 10:00 a.m. and 6:00 p.m., and restaurants only serving water upon request.

Staff recommended the Board rescind the Drought Level 1 – Drought Watch that asks for voluntary water conservation.

General discussion took place regarding how to announce the District's rescission of Drought Level 1 – Drought Watch via press release, District newsletter, and social media as well as the need for emphasis on the importance of the permanent mandatory water use restrictions.

17-02-15 MOTION WAS MADE by Director Sannella, seconded by Director Hernandez, and carried unanimously, to rescind Drought Level I – Drought Watch as recommended by staff.

WATER RATE STRUCTURE DEVELOPMENT UPDATE

Assistant General Manager Scaglione provided a presentation to update the Board on the progress of the water rate structure development which included:

- Cost Considerations
- Demand Projection Graph
- Demand Projection Table
- Demand by Source of Supply
- Determining Customer Classification Meter Size vs. Customer Type
- Allocating Tiers to Customer Classes
- Tier Limits
- Alternative Tier Limits
- Tier Limit Comparison
- Cost Allocation
- Revenue Offsets
- Peaking Factors and Allocation
- Capital Replacement
- Allocating Capital Costs to User Charges (RTS and Commodity)
- Distribution of Costs
- Cost of Service and Rate Structure Study Time Line

General discussion took place regarding unbilled water during which Director Sannella suggested a review of District facilities such as sinks and toilets to identify inefficiencies in regard to unbillable water that is lost compared to the cost of upgrading facilities. Director Martin requested data on the District's cost to replace fire hydrants that have been hit or damaged and the District's cost recovery ratio, to which staff responded.

Assistant General Manager Scaglione asked for the Board's direction to proceed with determining customer classification by the current method, meter size, as it appears to be the most homogeneous grouping.

General discussion/question and answer took place. Consensus to move forward by tiers by meter size was given.

Assistant General Manager Scaglione asked for the Board's direction in determining tier limits. The consensus of the Board was to direct staff to proceed with staff's recommendation of splitting the desal between Tiers 2 and 3, with the Tier 1 limit capturing OMWD water, and the Tier 2 Limit equal to the average maximum demand.

Assistant General Manager Scaglione anticipates the Draft Cost of Service and Rate Structure Study will be complete and ready to present to the Board on April 19.

General discussion took place.

Mike Hunsaker, member of the public addressed the Board stating that over the years he has observed the District, he has found staff to be much more accurate than the County as far as water projections. It looks fairly reasonable provided that we have a reasonable amount of development. There may be an issue with Tier 1 if you are charging anyone for water that is below cost. He thinks it's important to note to the public that there is a reason why the water is costing much more than in a wet year. We pay for reliability. We have fixed contracts and pay fixed costs which help a lot in drought years and cost quite a bit in wet years. He suggested the use of graphs to illustrate minimum average use and maximum average use more easily. He complimented staff on using 2016 figures. He thanked the Board.

SAN MARCOS BOYS AND GIRLS CLUB ANNUAL AUCTION

General Manager Pruim stated this item was placed on the agenda for the Board's consideration of District support for the 2017 Boys and Girls Club annual auction on Saturday, April 29, 2017.

General discussion took place regarding whether or not to purchase a table at the event. In previous years it has been difficult to fill a table of ten attendees. Director Martin suggested if staff bring a spouse/significant other to the event, staff does not have to pay for their guest's ticket as allowable by law. Legal Counsel Scott stated Board members are required by law to pay for their spouse/significant other's attendance to the event.

17-02-16 MOTION WAS MADE by Director Martin, seconded by Director Hernandez, and carried 4-1, with Director Evans voting no, to tentatively approve the purchase of a table of ten only if attendance to fill the table is confirmed and no per diem is authorized.

<u>REPORTS</u>

GENERAL MANAGER

General Manager Pruim reported the following:

- The District completed lead testing within the San Marcos School District. The
 results of the testing have been forwarded to the School District so that they may
 take appropriate actions if necessary.
- The officials at Lake Oroville are trying to draw down the lake level as much as possible prior to the predicted storms.
- Due to the lack of a quorum and any urgent agenda items, he is cancelling the March 1 Regular Board meeting.

DISTRICT LEGAL COUNSEL

Legal Counsel Scott reported on a local 218 case, Plantier vs. Ramona Municipal Water District. The case involves a challenge to the method the district uses to calculate sewer fees. The first phase relates to whether the Plaintiff properly challenged the fee and exhausted his remedies before filing suit. The case is pending before the Court of Appeals and is receiving state-wide attention.

SAN DIEGO COUNTY WATER AUTHORITY

Director Evans stated the next Board meeting is scheduled on February 23.

ENCINA WASTEWATER AUTHORITY

Director Hernandez reported on his attendance to the Capital Improvement Committee meeting this morning at which capital improvement projects (digesters, regenerative thermal oxidizer) were reviewed, a potential contract for assessment of capital was discussed, and the meeting time was moved from 7:30 a.m. to 8:00 a.m.

President Elitharp reported on his attendance to the Policy and Finance Committee meeting on February 27 at which the Committee established meeting dates for 2017 and heard a report on the CalPERS discount rate reduction.

STANDING COMMITTEES

None.

DIRECTORS REPORTS ON TRAVEL/CONFERENCES/SEMINARS ATTENDED

Directors Evans, Hernandez, Elitharp and Martin reported on their attendance to the Urban Water Institute's Spring Water Conference.

Director Sannella reported on his attendance to the San Diego North Economic Development Council Investor meeting on February 9.

OTHER BUSINESS

None.

DIRECTORS COMMENTS/FUTURE AGENDA ITEMS

Director Martin commented there might be a need to reschedule the cancelled March 1 Board meeting. General Manager Pruim will determine if there are any pressing items that cannot wait until the March 15 Board meeting.

Director Hernandez would like to schedule a time for the Board to tour the South Lake area. Legal Counsel Scott cautioned a tour such as this would be subject to the Brown Act if more than two Directors attend the tour at the same time and recommended the Board tour the South Lake facilities in groups of two, two and one.

<u>ADJOURNMENT</u>

There being no further business to discuss, President Elitharp adjourned the Regular Meeting of the Board of Directors at the hour of 8:17 p.m.

A Regular Meeting of the Vallecitos Water District Board of Directors has been scheduled for Wednesday, March 15, 2017, at 5:00 p.m. at the District office, 201 Vallecitos de Oro, San Marcos, California.

Craig Elitharp, President Board of Directors Vallecitos Water District

ATTEST:

Glenn Pruim, Secretary Board of Directors Vallecitos Water District

MINUTES OF A MEETING OF THE FINANCE/INVESTMENT COMMITTEE OF THE VALLECITOS WATER DISTRICT WEDNESDAY, FEBRUARY 22, 2017 AT 5:00 P.M. AT THE DISTRICT OFFICE, 201 VALLECITOS DE ORO, SAN MARCOS, CALIFORNIA

Director Martin called the meeting to order at the hour of 5:00 p.m.

Present: Director Martin

Director Sannella

General Manager Pruim

Assistant General Manager Scaglione

Finance Manager Fusco Accounting Supervisor Owen

Financial Analyst Arthur

Administrative Secretary Johnson

Others Present: Director Elitharp

Director Evans

ITEM FOR DISCUSSION

BUDGET AND RATE STUDY UPDATE

General Manager Pruim stated topics for discussion at this meeting would include water and wastewater reserves to provide more clarity, updates on the budget and rate development processes, as well as unbilled water.

Finance Manager Fusco discussed in detail the water and wastewater reserves graph that was previously presented at the last Finance/Investment Committee meeting and Board workshop, demonstrating how the graph correlates to figures from the Reserve Report which is included monthly in the Board agenda packets. He presented graphs illustrating trends in capacity and replacement reserves. Data from FY 07/08 through FY 15/16 indicates the following:

- Water capacity reserves have been trending downward since FY09/10, primarily due to several large projects and debt funding.
- Water replacement reserves are close to what was budgeted.
- Wastewater capacity reserves have been trending downward.
- Wastewater replacement reserves have been trending downward; however, they are better than what was budgeted.

General discussion and question/answer took place.

Finance Manager Fusco provided information on salary and benefit data for FY11/12 through FY15/16, the current FY16/17 budget, and projections for the year end FY16/17. Currently, salaries are projected to be approximately \$771,000 below what was budgeted mainly due to having 3.75 fewer employees and employees out on medical leave and modified work schedules. Director Sannella requested further information on this.

General discussion took place.

Finance Manager Fusco distributed copies of a budget worksheet showing revenues and operating expenses by department, actual FY15/16 budget, estimated FY16/17 budget and projections for its year end, estimated FY17/18 budget, and budget-to-budget comparisons. He explained how the worksheet is utilized in the budget process. At the next Committee meeting, actual numbers will be populated in the worksheet for discussion.

Assistant General Manager Scaglione provided a presentation on unbilled water as follows:

- Recent Legislation on Water Loss Management
- Objectives of Water Loss Audit
- AWWA's Water Balance
- Water Audit Result Metrics/KPIs
- Rate Structure Change Impacts

General discussion took place during which General Manager Pruim stated the District's three-year average of unbilled water is 5.6%.

Director Martin requested a comparison of how Olivenhain Municipal Water District's tier structure compares to Vallecitos' tier structure. General Manager Pruim explained that each district will be different because sources of water, supplies, costs and debt loads vary for each district. Director Sannella requested information on how the District's debt compares to other districts. Finance Manager Fusco will provide this information at the next Committee meeting.

Assistant General Manager Scaglione provided a presentation on rate structure change impacts during which he presented monthly bill analysis for meters ranging in size from 5/8" to 3". Analysis of multi-family customers will be presented at the next Committee meeting as well as cost of service studies from other districts.

Director Martin requested information on the District's last ten rate increases, including date, amount of increase, percentage of increase, and the effect the purchase of desal water has had.

Letters will be mailed on February 24 to customers affected by the pump zone increase. Directors Martin and Sannella requested information on rate increase complaints by division.

OTHER BUSINESS

Director Martin requested a copy of the current MOU for discussion at the next Committee meeting.

Director Sannella requested a list of recurring contracts or agreements over \$100,000 annually that need to be bid out per the District's purchasing policy. He would like this topic placed on the next Board agenda, if possible, or the one after that.

Director Martin requested information on possible outsourcing of functions in an effort to save money wherever possible.

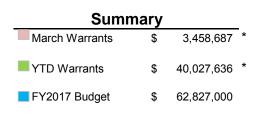
The Committee confirmed it will meet on March 22 and March 29 at 5:00 p.m.

PUBLIC COMMENT

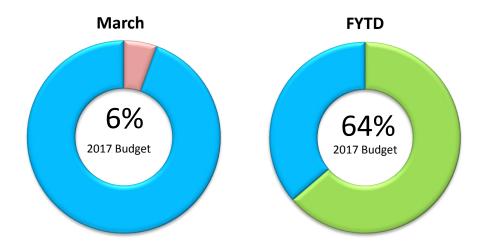
Mike Hunsaker, member of the public, inquired about what he referred to as the "deferred capacity fee payment plan" (there is no such plan; the District changes the due date for the fee and charges the fee that is current on the due date), the water loss average, and tiers for commercial and agricultural (rate structure is by meter size, not customer class), to which staff responded.

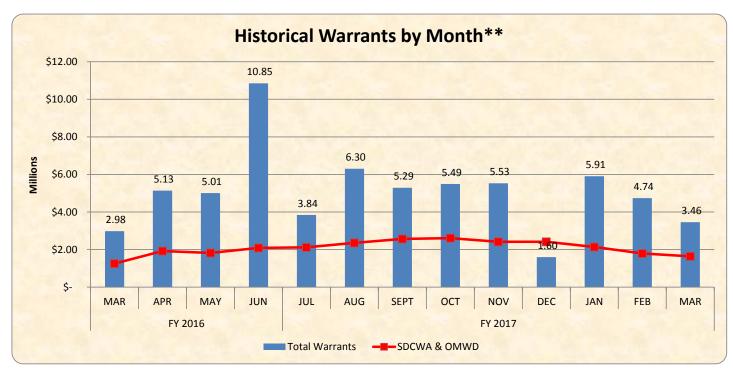
ADJOURNMENT

There being no further business to discuss, the meeting was adjourned at the hour of 6:30 p.m.

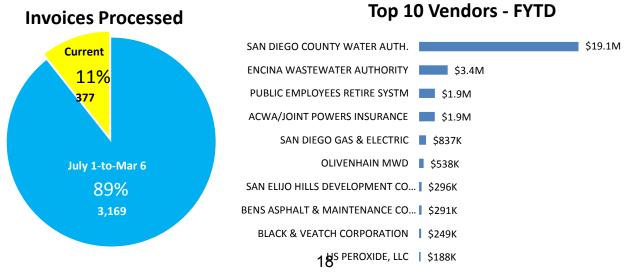


^{*} Excludes Debt Service





^{**} Historical Warrants by Month chart summarizes amounts in the Warrants List for the given month not amounts paid during the month with the exception of SDCWA & OMWD payments.



PAYEE	DESCRIPTION	CHECK#	AMOUNT
CHECKS			
ACWA/Joint Powers Insurance	Worker's Compensation Quarter Ending 12-31-16	110138	43,597.62
Home Depot Credit Services	Hardware Supplies	110139	597.87
Sam Mountney	Deposit Refund Prj 20171-244	110140	1,798.15
Union Bank FKA First Bank Card	Meetings & Travel Jan	110141	2,846.94
Union Bank FKA First Bank Card	Meetings & Travel Jan	110142	978.39
Union Bank FKA First Bank Card	Meetings & Travel Jan	110143	4,744.12
Union Bank FKA First Bank Card	Meetings & Travel Jan	110144	904.94
Verizon Wireless	IPad & Cell Phone Svc Jan	110145	1,724.07
Garnishments	Payroll Garnishments 110146 through	110149	-
ACWA/Joint Powers Insurance	Group Insurance March	110150	188,454.03
Adobe Lock & Safe	Lock Replacement Water Ops Bathroom Door	110151	320.98
AH Water Inc.	Carbon Scrubber Rental Mar	110152	1,573.15
Airgas USA LLC	Cylinder Rental	110153	92.41
J.C. Ehrlich Co Inc.	Plant Maintenance Feb	110154	263.00
American Backflow Specialties Inc.	Meter Calibration	110155	164.58
Aqua-Metric Sales Co	Meters 71, Meter Registers 40	110156	20,882.88
Richard Arballo	Water Quality Workshop 2-2-17	110157	50.44
AT&T	Phones Svc Jan	110158	2,108.29
AT&T	Phone Svc SCADA Feb	110159	218.65
Bearcom	Annual Svc District Repeater Radio	110160	495.00
Black & Veatch Corporation	Water & Sewer Master Plan Prj 20141-3, Recycled Water Plan Prj 20141-712	110161	23,942.38
Boncor Water Systems	Soft Water Svc & Drinking Water Svc Feb	110162	1,645.00
Bonsall Petroleum Constr Inc.	Svc Call Fuel Island	110163	56.25
California Special Dist Assn.	Meeting 2-16-17, Hernandez, Martin, Sannella	110164	60.00
City of Carlsbad	Quarterly Sewer Svc Oct - Dec	110165	6,674.40
City of San Marcos	Right of Way Permit	110166	50.00
Jeffrey Colwell	Video Production Prj 20171-28	110167	428.75
Core Logic Information Solutions Inc.	Real Quest Annual Svc Fee For Engineering Maps, Engineering Map Svc Jan	110168	600.00
Corodata Media Storage Inc.	Back Up Storage Tape Jan	110169	156.50
County of San Diego	Inspection Svcs Prj 20161-4	110170	1,295.60
Craig Elitharp	Urban Water Institute Conference 2-8-17	110171	264.53
Daniel Prieto	Laser Fiche Conference 2-7-17	110172	197.44
Diamond Environmental Services	Portable Restroom MRF	110173	273.53
Diane L. Jones	Sewer Easement Prj 90003	110174	6,600.00
Eurofins Eaton Analytical Inc.	Algae Id Analysis Mahr	110175	210.00
Ford of Escondido	Ford F-550 Prj 20171-18	110176	37,542.43
Harrington Industrial	Injection System Parts MRF	110177	712.21
Harrison Power Equipment	Service Veh 225	110178	203.54
Health Dimensions	Wellness Fair Set Up	110179	150.00
Hortencia Ochoa	Credit Balance Refund	110180	462.20
Huntington & Associates, Inc.	Pump Control Valve Repair Pump Station 3	110181	4,862.60
Infosend Inc.	Support Fee, Postage & Printing Jan	110182	3,764.53
Jeff Katz	Building B Locker Room Prj 20161-5	110183	330.17
JCI Jones Chemicals Inc.	Chlorine San Marray Laterrates Bri 71004 Chloring Tarah Farmanian Bri 20161 2	110184	1,944.35
Kennedy/Jenks Consultants	San Marcos Interceptor Prj 71004, Chlorine Tank Expansion Prj 20161-2	110185	68,960.46
Law Offices of Jeffrey G Scott Lawnmowers Plus Inc.	Legal Svcs Jan	110186	15,239.50
Lloyd Pest Control	Hardware Supplies Pest Control Jan	110187 110188	276.65 764.00
Major League Pest	Bee Hive Removals 2	110188	240.00
Manpower Temp Services	Customer Service Rep Week Ending 2-5-17	110189	832.49
Hal Martin	Urban Water Institute Conference 2-8-17	110190	162.13
Matheson Tri-Gas Inc.	Cylinder Rental	110191	50.54
North County Auto Parts	Fleet Supplies Jan	110192	918.06
One Source Distributors LLC	Analog Card	110193	1,775.87
Ostari Inc.	IT Support Jan	110194	3,037.50
Pacific Pipeline Supply	Valves 3, Repair Kits 2, Hi Line Trailer Supplies Prj 20161-42	110196	2,333.64
Panoramic Development LLC	Deposit Refund Prj 20171-248	110197	470.02
Parkhouse Tire Inc.	Tires 6 Veh 231, Fleet Restocking Tires 8	110198	3,283.61
Pencco, Inc.	Sulfend RT 19	110199	6,629.39
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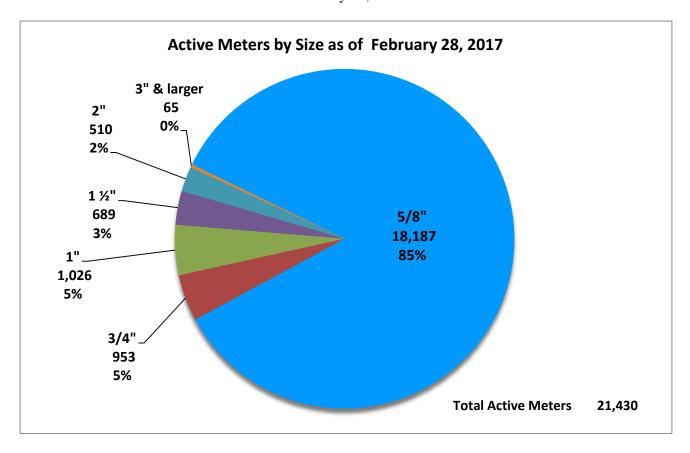
PAYEE	DESCRIPTION	СНЕ	ECK#	AMOUNT
Polydyne Inc.	Clarifloc	11	10200	15,479.15
Readdle Inc.	Fluix Subscription Jul 17- Feb 18	11	10201	534.10
Rincon Del Diablo MWD	Calendars & Contest Forms Prj 20171-29	11	10202	3,976.56
Rose Auto Body	Collison Damage Repair Veh 234	11	10203	1,645.29
Rusty Wallis Inc.	Soft Water Svc Feb	11	10204	225.00
SDG&E	Power Jan	11	10205	72,114.73
Schmidt Fire Protection Co Inc.	Quarterly Sprinkler Inspections		10206	957.00
Southern Counties Lubricants, LLC	Unleaded Gasoline, Diesel Fuel, Oil MRF		10207	28,648.62
Southwest Valve & Equipment	Valve Actuator		10208	1,033.98
Accent Electronics, Inc.	Svc Paging System		10209	712.50
Staples Advantage	Office Supplies		10210	64.32
T.S. Industrial Supply	Paint Stock & Hardware Supplies		10211	1,658.48
Test America Laboratories Inc.	Water Sampling		10212	322.50
Thyssen Krupp Elevator	Elevator Maintenance Feb - Apr Cover For Crane Veh 197		10213	962.71 393.00
Tony's Custom Upholstery			10214	279.00
Underground Service Alert Unisys Corporation	Dig Alert Jan Appel File Management FOM Feb 17 Feb 18		10215 10216	693.30
Univar USA Inc.	Annual File Management EOM Feb 17- Feb 18 Sodium Hypo Liquichlor, Sodium Bisulfite		10210	7,763.42
Vaughan's Indust Repair Inc.	Refurbish Pump 1 Deer Springs Pump Station Prj 20171-8		10217	8,637.40
Tri-City Emergency Medical Group	Medical Sycs		10219	210.00
Xerox Corporation	Copier Lease Dec & Jan		10219	5,134.02
APGN Inc.	Aeration Blower MRF Payment 12 Of 24		10221	4,069.00
Applied Best Practices, LLC	Bond Continuing Disclosure		10222	2,031.00
Black Oxide Service Inc.	Hardware Supplies		10223	225.00
Boot World Inc.	Safety Boots		10224	150.00
Bradley's Pro Clean Inc.	Cleaning Supplies	11	10225	61.63
California Nozzle Specialists Inc.	Hoses 2	11	10226	413.07
Computer Protection Technology Inc.	Back Up Power Supply	11	10227	1,451.93
County of San Diego	Recording Fees	11	10228	43.00
Dion International Trucks LLC	Fleet Supplies	11	10229	329.76
Doane & Hartwig Water Systems Inc.	Chlorine Analyzer Parts & Chlorine Gas Detector MRF	11	10230	2,439.40
Hidden Valley Steel & Scrap, Inc.	Steel Sheet	11	10231	68.11
Electrical Sales Inc.	Solar Panels 3 Coggan Tank		10232	952.96
Ferguson Enterprises, Inc.	Air Valves 5, Hardware Supplies	11	10233	1,453.24
Ford of Escondido	Fleet Supplies		10234	117.94
Grainger Inc.	Safety Shower/Eye Station Mahr, Hardware Supplies		10235	2,947.38
Ken Grody Ford	Transmission Replacement Veh 219		10236	2,657.98
Infinisource	Administrative Svcs Jan		10237	80.00
Infrastructure Engr Corp	Wet Well Room Prj 20171-4		10238	174.85
Laser Cut Concrete Cutting Inc.	Core Drilling Svc		10239	220.00
Pacific Safety Center Plumbers Depot Inc.	Membership Renewal April 17-April 18 Leak Detector Repair		10240 10241	280.00 336.08
S & J Supply Company, Inc.	Brass Inventory		10241	1,567.14
Unifirst Corporation	Uniform Delivery		10242	2,462.38
VAP Enterprises Inc.	Right of Way Acquisitions 3 Prj 71004, Prj 90003 & Prj 20161-26		10243	3,740.00
Visser Construction Inc.	Car Wash Roof Repair		10244	2,134.00
Walters Wholesale Electric	Analyzer Replacement MRF, Hardware Supplies		10246	2,227.58
Waxie Sanitary Supply	Cleaning Supplies		10247	267.94
Garnishments			10251	-
A & Y Asphalt Contractors Inc	Asphalt Main Break Repair 1 Location, Asphalt Svcs 11 Locations	-	10252	52,165.00
ACWA	Conference Sponsorship Prj 20171-27		10253	1,000.00
Applied Indust. Tech.	Hardware Supplies		10254	72.60
Ashkan Seisun	Closed Account Refund		10255	71.88
AT&T	Phone Svc Jan		10256	19.66
Boot Barn	Safety Boots	11	10257	140.60
Boot World Inc	Safety Boots	11	10258	150.00
Brady Sand & Material Inc	Rock & Cold Mix	11	10259	2,619.80
California Native Plant Society	Garden Tour Prj 20171-31	11	10260	250.00
Corie Campbell	Closed Account Refund		10261	128.72
County of San Diego	Inspections Svcs Prj 20161-4 20	11	10262	1,061.00

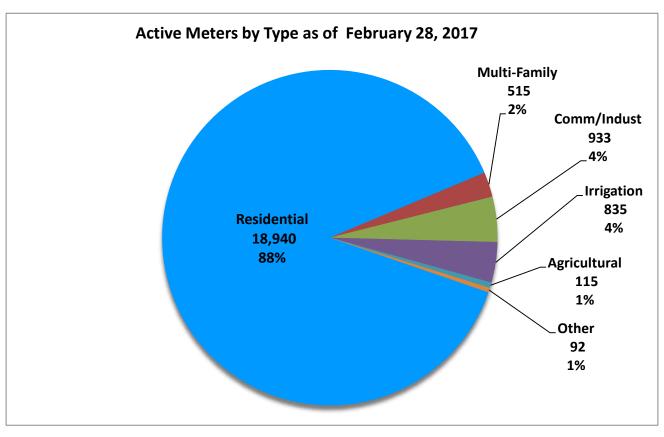
PAYEE	DESCRIPTION	CHECK#	AMOUNT
CSMFO	Membership 2017 J Fusco, W Owen	110263	220.00
CWEA	Membership E Garcia	110264	172.00
Daniel Montano Contreras	Closed Account Refund	110265	70.41
David Schweigeraht	Closed Account Refund	110266	113.53
Day Electric	Inverter Repair Solar Panels	110267	1,600.00
DirecTV Inc	Satellite Svc Feb	110268	156.98
Dudek	North & South Pressure Reducing Stations Prj 20141-7 & Prj 20141-8	110269	1,425.00
EDCO Waste & Recycling Serv	Trash Svc Feb	110270	847.35
ESRI Inc	GIS Server Upgrade & Migration	110271	1,807.00
Flag Mart	Flags 4	110272	303.81
Ford of Escondido	Svc Veh 217, Hardware Supplies Veh 134, Cab Body Mounts Veh 212	110273	529.23
George & Krogh Welding Inc	Steel Pipe Welding, New Truck Setup Prj 20161-30	110274	1,864.66
GMC Electrical, Inc.	Steel Pipe Leak Repair	110275	2,999.48
Haaker Equipment Co.	Hardware Supplies	110276	481.24
Hawthorne Machinery Co.	Skip Loader Rental, Back Hoe Rental Jan & Feb, Repairs Veh 166	110277	12,513.71
Hawthorne Tire Auto Service	Repairs & Alignment Veh 214	110278	1,349.65
James R Hernandez	Urban Water Institute Conference 2-8-17	110279	256.61
Infosend Inc Jenna Nicoll	Postage & Printing, Support Fee Aug, Postage & Printing, Support Fee Feb Closed Account Refund	110280	14,146.67 27.37
Jenna Nicoli Jonathan Richard	Closed Account Refund Closed Account Refund	110281	
JCI Jones Chemicals Inc	Chlorine Chlorine	110282 110283	63.20 3,888.70
Kathryn & Aaron Burleson	Closed Account Refund	110283	39.28
Kellie Brosamer	Closed Account Refund	110284	10.59
Kiwanis Club of Lake San Marcos	Pancake Breakfast Placement Ad Prj 20171-27	110286	100.00
Laura Hord	Closed Account Refund	110287	20.12
Lauren Alden	Closed Account Refund	110288	87.74
Manpower Temp Services	Customer Service Rep Week Ending 2-12, 2-19, 2-26	110289	1,708.79
Hal Martin	CSDA Meeting 2-16-17	110290	30.03
Mike Sannella	SDNEDC Meeting 2-09-17, CSDA Meeting 2-16-17, COWU Meeting 2-21-17	110291	53.91
Milan Ficek	Closed Account Refund	110292	143.55
Mitchell Repair Information Co LLC	Repair Manuals Renewal 2017	110293	2,220.00
North County Auto Parts	Fleet Supplies Feb	110294	2,416.55
Parkhouse Tire Inc	Tires 2 Vactor 183	110295	1,197.87
Pencco, Inc.	Trioxyn & Sulfend RT	110296	16,400.37
Rick Post Welding	Repair Leak - Steel Pipe, Coupling Welding	110297	2,312.50
Provident Savings Bank FSB	Closed Account Refund	110298	10.14
Rainbow Municipal Water District	Refund of Duplicate Payment	110299	1,646.28
Ramzi Hamdan RCP Block & Brick Inc	Closed Account Refund Stackable Block MRF	110300	27.73
Air Quality Compliance Solutions, Inc.	Operator Svc Feb	110301 110302	983.49 175.00
Flat Wheel Auto Body Inc.	Body Damage Repair Veh 244	110302	3,195.07
S & J Supply Company, Inc.	Brass Inventory	110303	549.95
Sea Breeze Janitorial	Janitorial Svcs Feb	110304	553.13
Sean Hogan	Closed Account Refund	110305	87.41
Sherri Miller	Closed Account Refund	110307	75.05
Shred-It US JV LLC	Shredding Svcs Jan - Feb	110308	229.49
Southern Counties Lubricants, LLC	Oil, Diesel Fuel	110309	1,355.19
Southwest Valve & Equipment	Check Valve Parts Pump 3 MRF	110310	3,040.58
Spatial Wave Inc	Mapplet Annual Maintenance March 17 - March 18	110311	4,860.00
Standard Insurance Company	LTD, LIFE, & ADD Mar	110312	5,622.98
Stanley Steemer	Carpet Cleaning Bldg A & B	110313	2,328.00
Staples Advantage	Office Supplies Feb	110314	132.20
Sunbelt Rentals Inc	Man Lift Rental	110315	949.58
Sunita Marcello	Closed Account Refund	110316	7.71
Sylvester Roofing Co Inc	Emergency Roof Repair Bldg A	110317	4,919.00
Thomas S Strathairn	Advertising Prj 20171-27	110318	450.00
Total Resource Mgt Inc	Maximo Support Jan	110319	163.00
Trussell Technologies Inc	Media Study MRF Prj 20121-4	110320	2,028.00
Univar USA Inc	Sodium Bisulfite, Caustic Soda Shipping Feb.	110321	12,055.22
UPS	Shipping Feb 21	110322	118.37

PAYEE	DESCRIPTION	CHECK#	AMOUNT
Varidesk, LLC	Sit/Stand Stations 3	110323	942.82
Vaughan's Indust Repair Inc.	Pump 2 Refurbish Deer Springs Pump Station Prj 20171-8	110324	8,637.40
Victoria Lau	Closed Account Refund	110325	72.38
Xerox Corporation	Copier Lease Jan	110326	4,835.96
Airgas USA LLC	Cylinder Rental	110327	85.46
Carbon Activated Corp.	Tertiary Media MRF Prj 20121-4	110328	42,504.43
CCI	Water Treatment Feb	110329	220.00
Griswold Industries	Claval Flow Curves 76 SCADA	110330	2,385.65
Cook Industrial Supply	Pressure Washer Repair	110331	618.62
County Burner & Machinery Corp	Hardware Supplies	110332	212.08
Electrical Sales Inc	Hardware Supplies	110333	96.11
Ferguson Enterprises, Inc	Copper Tubing, Gaskets	110334	611.49
Fleetpride	Hardware Supplies	110335	280.49
Grainger Inc	Sump Pumps 2, Chlorine Injector Materials, Aeration Blower Parts, Hardware Supplies	110336	5,805.80
Grangetto's Farm Garden Supply	Landscape Supplies	110337	298.90
Harrington Industrial	Hardware Supplies	110338	220.09
Land Surveying Consultants Inc	Moon Nursery Easement Survey	110339	2,510.00
Machilus LLC	Closed Account Refund	110340	150.00
Marcon Products Inc	Hardware Supplies Prj 20171-263	110341	348.98
MCR Technologies Inc	Composite Sampler MRF	110342	6,484.40
Mission Janitorial & Abrasive Supplies	Cleaning Supplies	110343	97.17
Mission Resource Conservation District	Water Use Evaluations Prj 20171-30	110344	31.25
Morton Salt, Inc.	Industrial Salt	110345	3,423.73
O.G. Supply Inc	Hardware Supplies	110346	153.44
Official Athletics	Advertising Prj 20171-27	110347	100.00
One Source Distributors LLC	Full Face Respirators 6 MRF	110348	665.75
Pacific Pipeline Supply	Couplings 10, Air Vac Cans 3, Pipe Stand Prj 20171-6, Hardware Supplies	110349	5,306.89
Reed Electric Co	Motor 2 Refurbish Deer Springs Pump Station Prj 20171-8	110350	5,149.59
Ryan Herco Products Corp.	Chlorine Injectors 2	110351	4,593.98
Steven Enterprises Inc	Bond Paper	110352	90.16
T.S. Industrial Supply	Hardware Supplies	110353	108.47
Tiffany Vague	Closed Account Refund	110354	42.44
Unifirst Corporation	Uniform Delivery	110355	1,602.29
VAP Enterprises Inc	Right of Way Acquisition Harmony Grove Prj 20161-26 & Prj 90003	110356	2,444.99
Walters Wholesale Electric	Hardware Supplies	110357	742.56
Total Disbursements (212 Checks)	Tame water Supplies		930,255.73
WIRES			
San Diego County Water Authority	January Water Bill	Wire	1,641,037.32
Public Employees Retirement System	Retirement Contribution - February 15, 2017 Payroll	Wire	67,184.07
Public Employees Retirement System	Retirement Contribution - March 1, 2017 Payroll	Wire	67,252.62
Total Wires			1,775,474.01
PAYROLL			
Total direct deposits		Wire	229,546.39
VWD Employee Association		110146	385.00
Garnishments	110147 through	110149	1,715.06
IRS	Federal payroll tax deposit	Wire	99,528.95
Employment Development Department	California payroll tax deposit	Wire	17,728.82
CalPERS	Deferred compensation withheld	Wire	19,726.84
VOYA Total February 15, 2017 Payroll Disbu	Deferred compensation withheld ursements	Wire	7,244.52 375,875.58
Total direct demonite		Wire	
Total direct deposits IRS	Federal payroll toy deposits	Wire	1,002.01
	Federal payroll tax deposits		695.76
Employment Development Department CalPERS	California payroll tax deposit	Wire	127.54
Special Payroll Disbursements (i.e., fin	Deferred compensation withheld	Wire	100.00
Speciai r ayron Disbursements (i.e., Ill	nai cheeks, acciuai payouts, etc.)		1,925.31

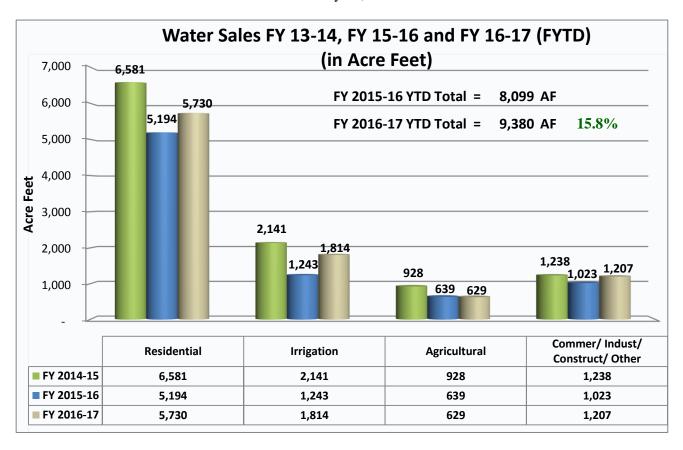
PAYEE	DESCRIPTION		CHECK#	AMOUNT
Total direct deposits			Wire	227,776.55
VWD Employee Association			110248	385.00
Garnishments		110249 through	110251	1,715.06
IRS	Federal payroll tax deposits		Wire	100,778.61
Employment Development Department	California payroll tax deposit		Wire	17,838.13
CalPERS	Deferred compensation withheld		Wire	19,232.79
AETNA	Deferred compensation withheld		Wire	7,429.89
Total March 1, 2017 Payroll Disburser	ments			375,156.03
Total Payroll Disbursements				752,956.92
TOTAL DISBURSEMENTS				3,458,686.66

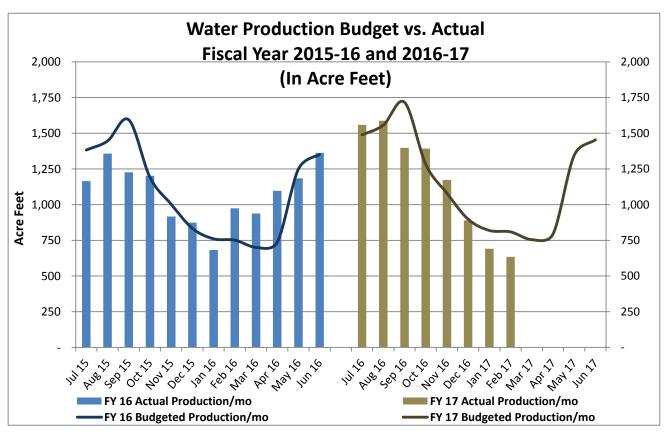
Vallecitos Water District Active Water Meters February 28, 2017





Vallecitos Water District Water Production/Sales February 28, 2017





Vallecitos Water District Water Revenue and Expense Report For the Eight Months Ended February 28, 2017

	Current	Prio	or Year Actual		Current Year Budget			
	Year		Varianc	e		Variand	ce	
	Actual	Amount	\$	%	Amount	\$	%	
Revenue								
Water Sales	\$ 15,446,358	\$12,419,014	\$ 3,027,344	24.4%	\$16,357,000	\$ (910,642)	-5.6%	
Ready-to-serve	9,193,980	9,132,929	61,051	0.7%	8,164,000	1,029,980	12.6%	
Pumping charges	115,868	91,619	24,249	26.5%	163,000	(47,132)	-28.9%	
Late & lock charges	297,469	303,452	(5,983)	-2.0%	271,000	26,469	9.8%	
Backflow fees	58,705	54,826	3,879	7.1%	52,000	6,705	12.9%	
Other revenue	141,828	131,554	10,274	7.8%	65,400	76,428	116.9%	
Total Revenue	25,254,208	22,133,394	3,120,814	14.1%	25,072,400	181,808	0.7%	
Expenses								
Water costs	17,483,827	13,509,785	3,974,042	29.4%	18,610,000	(1,126,173)	-6.1%	
Pumping costs	367,320	308,899	58,421	18.9%	292,000	75,320	25.8%	
Water quality	62,120	73,969	(11,849)	-16.0%	111,000	(48,880)	-44.0%	
Water treatment	264,825	230,452	34,373	14.9%	249,000	15,825	6.4%	
Tanks & reservoirs	187,104	206,237	(19,133)	-9.3%	229,000	(41,896)	-18.3%	
Trans & distribution	1,122,841	715,816	407,025	56.9%	940,000	182,841	19.5%	
Services	89,622	148,191	(58,569)	-39.5%	125,000	(35,378)	-28.3%	
Meters	406,274	417,908	(11,634)	-2.8%	433,000	(26,726)	-6.2%	
Backflow prevention	51,711	36,254	15,457	42.6%	48,000	3,711	7.7%	
Customer accounts	350,080	338,010	12,070	3.6%	456,000	(105,920)	-23.2%	
Building & grounds	253,630	217,643	35,987	16.5%	213,000	40,630	19.1%	
Equipment & vehicles	170,792	160,939	9,853	6.1%	211,000	(40,208)	-19.1%	
Engineering	852,131	834,928	17,203	2.1%	1,028,000	(175,869)	-17.1%	
Safety & compliance	139,314	134,998	4,316	3.2%	181,000	(41,686)	-23.0%	
Information Technology	506,705	464,349	42,356	9.1%	625,000	(118,295)	-18.9%	
General & administrative	1,807,241	1,894,363	(87,122)	-4.6%	1,849,000	(41,759)	-2.3%	
Total Expenses	24,115,537	19,692,741	4,422,796	22.5%	25,600,000	(1,484,463)	-5.8%	
Net Operating Income	\$ 1,138,671	\$ 2,440,653	(1,301,982)	-53.3%	\$ (527,600)	1,666,271	-315.8%	

Explanation of Significant Variances

Drought recovery has resulted in a favorable variance in *Water Sales* to prior year. *Water costs* have increased in correlation with water sales resulting in an unfavorable variance to prior year.

The District received a settlement from ACWA/JPIA and reimbursement of costs for Solar Panel repairs resulting in a favorable budget variance in *Other revenue*.

The Pumping costs unfavorable budget variance is a result of increased power costs due to rate increases and the addition of the San Elijo Hills pump station.

Transmission and distribution has an unfavorable prior year variance as a result of unplanned repair costs due to multiple main breaks and paving services budgeted for Fiscal Year 2016 being delayed and performed this fiscal year.

The Customer Accounts favorable budget variance is due to staffing within the department.

On the Horizon:

Multiple main breaks resulted in the District incurring unplanned repair costs including materials and supplies, paving, and related payroll overtime
expenses. Future financial statements will reflect these costs in the transmission and distribution department.

Variances are considered significant if they exceed \$66666 and 20%.

Vallecitos Water District Sewer Revenue and Expense Report For the Eight Months Ended February 28, 2017

	Current	Prior Year Actual				Current Year Budget			
	Year		Variance				Varian	ce	
	Actual	Amount		\$	%	Amount	\$	%	
Revenue									
Sewer service charges	\$ 11,659,294	\$ 11,559,894	\$	99,400	0.9%	\$ 11,864,000	\$ (204,706)	-1.7%	
Reclaimed water sales	1,290,389	1,147,045		143,344	12.5%	1,292,000	(1,611)	-0.1%	
Other revenue	62,861	64,643		(1,782)	-2.8%	52,000	10,861	20.9%	
Total Revenue	13,012,567	12,771,582		240,985	1.9%	13,208,000	(195,433)	-1.5%	
Expenses									
Collection & conveyance	1,216,378	1,150,054		66,324	5.8%	1,508,000	(291,622)	-19.3%	
Lift stations	257,487	147,606		109,881	74.4%	216,000	41,487	19.2%	
Source Control	91,110	82,444		8,666	10.5%	128,000	(36,890)	-28.8%	
Effluent disposal	1,808,087	1,551,040		257,047	16.6%	1,794,000	14,087	0.8%	
Meadowlark	1,907,916	1,693,928		213,988	12.6%	2,323,000	(415,084)	-17.9%	
Customer Accounts	242,998	231,325		11,673	5.0%	307,000	(64,002)	-20.8%	
Building & grounds	141,276	120,120		21,156	17.6%	154,000	(12,724)	-8.3%	
Equipment & vehicles	118,755	125,487		(6,732)	-5.4%	174,000	(55,245)	-31.8%	
Engineeering	361,438	362,568		(1,130)	-0.3%	437,000	(75,562)	-17.3%	
Safety & compliance	95,409	81,903		13,506	16.5%	110,000	(14,591)	-13.3%	
Information technology	425,349	400,533		24,816	6.2%	490,000	(64,651)	-13.2%	
General & administrative	817,698	764,423		53,275	7.0%	839,000	(21,302)	-2.5%	
Total Expenses	7,483,901	6,711,431		772,470	11.5%	8,480,000	(996,099)	-11.7%	
Net Operating Income	\$ 5,528,666	\$ 6,060,151		(531,485)	-8.8%	\$ 4,728,000	800,666	16.9%	

Explanation of Significant Variances

Lift stations has an unfavorable variance to prior year resulting from an anticipated increase in outside services and materials used during the year thus far.

Variances are considered significant if they exceed \$66666 and 20%.

VALLECITOS WATER DISTRICT

RESERVE ACTIVITY FOR THE EIGHT MONTHS ENDED FEBRUARY 28, 2017

	110 Water 120			210 Wastewater 220					
	Replacement		Capacity	R	Replacement	_	Capacity	_	Total
BEGINNING BALANCE	\$ 28,693,077	\$	(10,315,457)	\$	38,840,390	\$	(6,245,765)	\$	50,972,157
REVENUES									
FY 16/17 Operating Transfers	1,138,671				5,528,666				6,667,337
Capital Facility Fees	-		1,934,876		-		2,344,597		4,279,474
Property Tax	698,904		-		555,282		-		1,254,186
RDA pass-through	379,589		-		379,589		-		759,178
Investment Earnings	132,415		-		132,517		-		264,932
Payment on Land Sale to City	56,968		-		56,968		-		113,935
Annexation Fees	34,190		-	_	5,780	_	-	_	39,969
TOTAL REVENUES	2,440,737		1,934,876		6,658,802	_	2,344,597	_	13,379,012
LESS DISTRIBUTIONS									
Capital Projects									
Encina Wastewater Auth 5 Year Cap Plan					1,269,330		_		1,269,330
San Elijo Road Facility	-		177,437		1,209,330		118,291		295,728
San Marcos interceptor sewer	-		177,437		81,080		180,464		261,544
Water & Sewer Master Plan	-		115,164		81,080		115,157		230,321
	140 477		113,104		-		113,137		
Fy 15/16 District Wide Valve Replacement	148,477		-		125 001		-		148,477
Chlorine Contact Tank Expansion	-		-		125,981		-		125,981
MRF Chlorine Contact Tank Safety Railing Replacement	-		-		110,588		-		110,588
Tertiary Filter Media	-		-		109,190		-		109,190
Linda Vista Sewer Upgrade	-		-		42,474		51,913		94,387
Expansion of the Men's Locker Room in Building B	47,801		-		45,927		-		93,728
Mrf - Aeration System Blower Replacement	-		-		89,567		-		89,567
Audiovisual Upgrade	40,835		-		39,234		-		80,069
Vactron Pit - District Yard	-		-		73,907		-		73,907
Lift Station No 1 Pump Improvements	-		-		15,238		48,252		63,490
Mahr Reservoir Chlorine Injection System	-		-		56,903		-		56,903
Rock Springs Sewer Replacement	-		-		24,520		29,970		54,490
Knoll Road Sewer Replacement	-		-		51,540		-		51,540
Montiel Gravity Outfall	-		-		20,866		25,503		46,369
Meter Services Area Remodel	19,733		-		18,960		-		38,693
Lift Station 1 Wet Well Room Repairs	-		-		31,904		-		31,904
Aerosol System For Servers	15,499		-		14,891		-		30,390
Palos Vista Pump Station Motor Replacement	25,915		-		-		-		25,915
Twin Oaks Resv: On-Site Sodium Hypo Generation	24,184		-		-		-		24,184
MRF Potable Water Pump Station	-		-		23,749		-		23,749
Deer Springs Pump Station - Refurb Pumps & Motors	22,895		_		_		_		22,895
Palos Vista Pump Station Flow Meter Replacement	18,428		_		_		_		18,428
Master Plc Replacement & Programming Updates	8,739		_		8,737		_		17,476
City of San Marcos Joint Projects	9,111		_		5,825		_		14,936
Constant Speed Aeration Blower	-		_		14,142		_		14,142
South Lake dam sluice gate	13,529		_				_		13,529
Desalinated Water Connection	13,327		12,689		_		_		12,689
Palos Vista Pump Station	12,362		12,007		_		_		12,362
Peroxide Station Enclosure And Site Renovation	12,302				11,729				11,729
Lift Station 1 - Waterman Valves Replacement	_		_		10,740		_		10,740
_	22.065		155				1 044		
All other capital projects	23,065		155		29,449		1,044		53,713
Capital Budget - Vehicles/Mobile Equipmnt Debt Service	128,539		- 500 200		154,939				283,478
Interest Expense			598,399 38,637		- -	_	1,547,431 24,178	_	2,145,830 62,815
TOTAL DISTRIBUTIONS	559,113		942,481		2,481,409	_	2,142,203	_	6,125,206
ENDING BALANCE	\$ 30,574,701	\$	(9,323,062)	\$	43,017,783	\$	(6,043,371)	\$	58,225,963
Less: Operating Reserves	5,220,500			_	6,272,900	_		_	11,493,400
Replacement Reserves/Restricted Funds	\$ 25,354,201	\$	(9,323,062)	\$	36,744,883	\$	(6,043,371)	\$	46,732,563
Replacement reserve floor	\$ 6,542,500			\$	11,789,400				
Replacement reserve ceiling	<u>\$ 26,948,300</u>			\$	41,946,600				

VALLECITOS WATER DISTRICT INVESTMENT REPORT FOR FEBRUARY 2017

Attached is a detailed list of investments for all District funds that are not needed to meet current obligations. In accordance with Government Code Section 53646, the information is presented to the Board on a monthly basis and includes a breakdown by fund, financial institution, settlement and maturity date, yield, and investment amount. In addition, the report indicates the various percentages of investments in each type of institution.

When investments are being made, two or three institutions are contacted to obtain prevailing rates. Consideration is given to Safety, Liquidity, and Yield, in that order. Necessary approvals and reviews are obtained. This process and the presentation of the information to the Board are in compliance with requirements outlined in the District Investment Policy adopted on an annual basis. In addition to the investment portfolio, there are sufficient funds in the Operating Account to meet District obligations for the next 30 days. Maturity dates on investments are structured to meet the future financial obligations of the District (i.e., bond payments and construction projections). In that regard, the District will be able to meet expenditure requirements for the next six months without a need to liquidate an investment earlier than scheduled maturity dates.

Investment activity for the month of February follows:

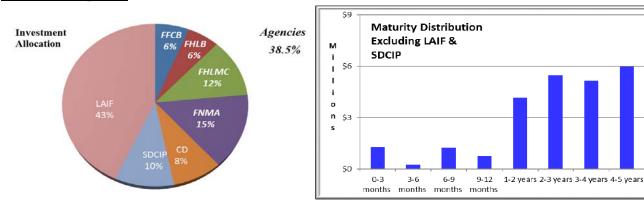
Date	Activity	Investment	Amount	Maturity	Yield
02/03/17	Deposit	LAIF	725,000	Open	0.78%
02/08/17	Settle	FHLB	500,000	01/23/19	1.24%
02/09/17	Maturity	Credit SUIS CP	(991,503)	02/09/17	1.15%
02/09/17	Deposit	LAIF	950,000	Open	0.78%
02/15/17	Withdrawl	LAIF	(2,000,000)	Open	0.78%
02/24/17	Deposit	LAIF	425,000	Open	0.78%
02/27/17	Call	FNMA	(499,000)	08/27/17	1.60%
02/28/17	Deposit	LAIF	450,000	Open	0.78%
Change in in	vestments during the	he month	\$ (440,503)		

	Current
Weighted average annual yield for total Vallecitos investments	1.049%
Weighted average days to maturity	472

The State Treasurer's Office provides fair market values of LAIF quarterly on their web site. The most recent valuation, which is used on this report, is as of December 31, 2016. The San Diego County Treasurer provides the fair values for the County investment pool. The most recent values and returns, which are used for this report, are for January 31, 2017. Fair values for federal agency obligations and corporate notes are provided by Union Bank trust account reporting.

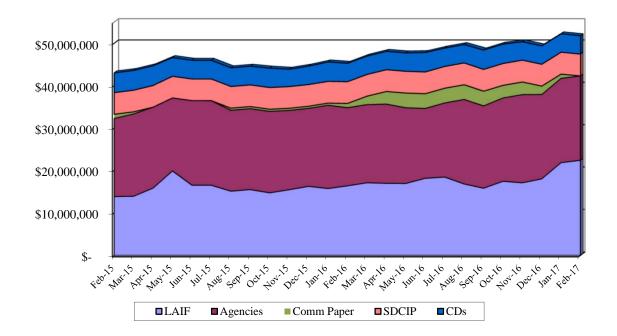
Vallecitos Water District Investment Report for February 2017 Page 2

Portfolio Snapshot:



Safety

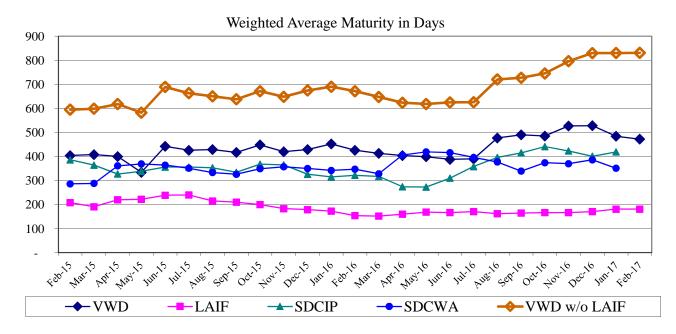
Criteria for selecting investments and the absolute order of priority are safety, liquidity and yield. To meet the objective of safety and avert credit risk, the District acquires only those investments permitted by adopted Board policy and with in limits established in the policy. Credit risk is the risk that an issuer or other counter party to an investment will not fulfill its obligation. The District also limits risk by investing in a range of instruments to insure diversification as indicated in the graph below.



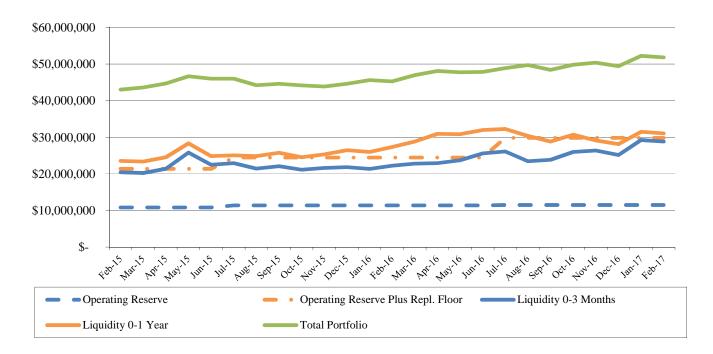
The graph above represents investment levels in the State of California's Local Agency Investment Fund (LAIF), federal agency obligations, commercial paper, FDIC backed corporate notes, the San Diego County Investment Pool (SDCIP), and certificates of deposit.

Liquidity

Interest rate risk is the risk that changes in interest rates will adversely affect the fair value of investments. The District averts interest rate risk by limiting terms of investments in accordance with the Investment Policy. Maturity in days is a measure of liquidity. The next graph compares the District's liquidity to other managed portfolios. The District's liquidity is graphed with and without LAIF. With LAIF the District is in fact very liquid with \$22.4 million available the same day. But for comparative purposes LAIF is eliminated from the District's portfolio and shown separately.



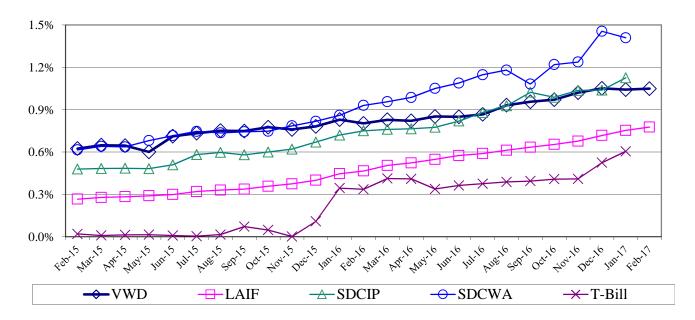
The graph below trends the *relationship of liquidity to adopted reserve levels*. District staff is sensitive to this relationship, but also recognizes the risk of being too liquid if rates fall further.



Vallecitos Water District Investment Report for February 2017 Page 4

Yield

The next graph compares the District's effective yield to LAIF, SDCIP, San Diego County Water Authority (SDCWA), and the average 91-day Treasury bill for each month.



Investment/Debt Management

On July 9, 2015, the District refunded most of its 2007 Certificates of Participation with Revenue Bonds containing interest rates ranging between 4% and 5%. The District is obligated to transfer semi-annual debt service payments each June 25th (maximum of \$3.9 million in year 2030) and each December 26th (maximum of \$980 thousand in year 2021) to the trustee for payment to bondholders for both the remaining 2007 COPs and 2015 Revenue Bonds. Staff targets these dates for maturities and proposes user rates that, given all other budget assumptions, satisfy debt service coverage requirements. On November 12, 2008, the District secured a private placement, variable rate loan (currently at 1.43584%) from Union Bank for \$8 million to fund remaining and prior construction costs of the Encina Wastewater Authority Phase V expansion. The District is debt financing certain sewer projects with a \$7.1 million 10-year loan received from Bank of America in December of 2012, at a 1.98% fixed rate.

Investment Strategy

Staff is sensitive to the need to maintain minimum liquidity and invests to insure that a portion of the portfolio equal to the operating reserves matures within three months, and a portion of the portfolio equal to the operating reserves plus the replacement reserve floors matures within one year. Staff also recognizes that too much liquidity presents interest rate risk and, therefore, maintains investment maturities close to the liquidity targets. When total investment maturities are projected to remain above liquidity targets, investment are made further out on the curve to ladder maturities, maintain diversity among investment types and issuers, and maximize yield.

The District continues to diversify various aspects of the portfolio and avoid speculating since the portfolio is passively managed (no staff dedicated solely to investing and monitoring credits). Staff diversifies the portfolio by investment type, maturity and settlement dates (time averaging), and call provisions. The District continues to maintain investments of varying types within limits allowed by investment policy (60% in federal agency obligations, 60% in LAIF, 40% in other local government investment pools, 20% in FDIC-backed corporate notes, 20% in commercial paper, 20% in certificates of deposit).

By Fund							Replac	ement	Cap	acity	
Reference	S&P	Coupon	Yield	Settled	Callable	Matures	Water 110	Sewer 210	Water 120	Sewer 220	Total
FNMA	AA+	1.125	0.705	01/09/13	na	04/27/17		1,017,750			1,017,750
SAFRA CD		0.900	0.900	01/28/16	na	04/28/17	245,000	-	-	-	245,000
Cardnl Bk CD		1.000	1.000	01/30/15	na	07/31/17	-	245,000	-	-	245,000
Mbank CD		1.500	1.500	09/20/13	na	09/20/17	245,000	-	-	-	245,000
FNMA	AA+	0.875	0.917	02/24/15	na	10/26/17	-	499,465	-	-	499,465
FNMA	AA+	0.875	0.917	12/02/15	na	10/26/17	-	499,625	-	-	499,625
Compass CD		1.300	1.300	12/09/15	na	12/11/17	-	245,000	-	-	245,000
FFCB	AA+	0.840	0.840	10/22/15	03/28/17	01/22/18	-	500,000	-	-	500,000
FFCB	AA+	0.930	0.930	10/21/15	04/13/17	04/13/18	499,705	-	-	-	499,705
Am Exp CD		1.100	1.100	04/29/15	na	04/30/18	245,000	-	-	-	245,000
FNMA	AA+	0.875	1.090	11/12/15	na	05/21/18	-	497,325	-	-	497,325
Synchrony CD		1.600	1.600	06/13/14	na	06/13/18	245,000	-	-	-	245,000
Goldman CD		1.700	1.700	08/19/15	na	08/20/18	-	245,000	-	-	245,000
GE Cap CD		1.800	1.800	09/05/14	na	09/05/18	-	245,000	-	-	245,000
FHLB	AA+	1.200	1.260	06/29/15	na	09/26/18	499,050	-	-	-	499,050
Capital 1 CD		1.650	1.650	10/13/15	na	10/09/18	179,000	-	-	-	179,000
Ally Bank CD		1.600	1.600	10/29/15	na	10/29/18	245,000	-	-	-	245,000
Sallie Mae CD		1.600	1.600	12/09/15	na	12/10/18	-	245,000	-	-	245,000
FHLB	AA+	1.240	1.240	02/08/17	01/23/18	01/23/19	-	500,000	-	-	500,000
FNMA	AA+	1.000	1.000	07/25/16	04/25/17	01/25/19	499,900	-	-	-	499,900
FHLMC	AA+	0.750	0.750	04/27/16	04/26/17	04/26/19	750,000	-	-	-	750,000
Enerbank CD		1.500	1.579	06/18/15	na	05/15/19	232,301	-	-	-	232,301
FHLMC	AA+	1.000	1.000	06/28/16	03/28/17	06/28/19	-	750,000	-	-	750,000
FFCB	AA+	1.080	1.080	07/12/16	03/12/17	07/12/19	499,675	-	_	-	499,675
FHLMC	AA+	1.000	1.000	08/30/16	05/28/17	08/28/19	750,000	-	_	-	750,000
Barclays CD		1.900	1.900	09/16/15	na	09/16/19	-	245,000	_	-	245,000
FHLMC	AA+	1.250	1.317	09/25/15	na	10/02/19	498,665	-	_	-	498,665
FHLB	AA+	1.190	1.190	10/28/16	04/28/17	10/28/19	-	500,000	-	_	500,000
FHLMC	AA+	1.000	1.000	08/22/16	05/22/17	11/22/19	_	750,000	_	_	750,000
FNMA	AA+	1.350	1.350	06/30/16	03/30/17	12/30/19	-	500,000	-	-	500,000
FNMA	AA+	1.300	1.300	10/19/16	03/30/17	03/30/20	500,000	-	-	-	500,000
FNMA	AA+	1.500	1.500	05/27/16	05/28/17	05/29/20	750,000	-	-	-	750,000
HSBC Bank CD		1.400	1.400	09/16/16	07/08/18	07/08/20	-	244,510	-	-	244,510
FHLB	AA+	1.200	1.200	11/22/16	07/13/17	07/13/20	492,970	-	-	-	492,970
FNMA	AA+	1.400	1.400	08/24/16	05/24/17	08/24/20	-	1,000,000	_	-	1,000,000
Discover CD		1.500	1.500	10/26/16	na	10/26/20	245,000	-	-	-	245,000
FFCB	AA+	1.380	1.380	11/04/16	na	11/02/20	-	499,600	-	-	499,600
FFCB	AA+	1.770	1.770	12/07/16	12/07/17	12/07/20	-	249,438	-	-	249,438
FNMA	AA+	1.400	1.400	10/28/16	04/28/17	01/28/21	500,000	-	-	-	500,000
FFCB	AA+	1.620	1.620	11/18/16	03/17/17	02/17/21	-	149,667	-	-	149,667
FHLMC	AA+	1.250	1.250	02/26/16	05/26/17	02/26/21	-	514,000	-	-	514,000
Wells Fargo CD		1.150	1.150	03/04/16	09/04/18	03/04/21	-	243,000	-	-	243,000
FFCB	AA+	1.620	1.620	04/12/16	04/12/17	04/12/21	749,925	-	-	-	749,925
Comenty Bk CD		1.650	1.650	06/30/16	na	06/30/21	-	245,000	-	-	245,000
FNMA	AA+	1.500	1.500	07/27/16	04/27/17	07/27/21	_	500,000	_	-	500,000
JPM Chase CD		1.650	1.650	08/16/16	08/16/17	08/16/21	-	245,000	-	-	245,000
FHLMC	AA+	1.600	1.600	08/25/16	05/25/17	08/25/21	1,000,000	-	-	-	1,000,000
FHLB	AA+	1.625	1.625	09/30/16	03/30/17	09/30/21	-	1,000,000	-	-	1,000,000
FNMA	AA+	1.550	1.550	10/31/16	04/28/17	10/28/21	1,000,000	-	-	-	1,000,000
FHLMC	AA+	1.875	1.875	11/30/16	05/26/17	11/30/21	-	1,000,000	-	-	1,000,000
SDCIP	AAA	na	1.038	Various	na	Open	-	5,165,766	-	-	5,165,766
LAIF		na	0.777	Various	na	Open	11,185,807	11,185,807	-	-	22,371,614
Total Cost							22,056,998	29,725,953			51,782,951
Unrealized Gain	/(Lose)						(131,648)	(158,973)	-	_	(290,621)
Market Value	(LU33)					33	\$ 21,925,350	\$ 29,566,980	\$ -	<u> </u>	\$ 51,492,330
iviainet value							φ 41,743,330	ψ 49,300,700	Ψ -	\$ -	φ 51,492,330

By Investment Type									To	otal
Reference	Settled	Coupon	Yield	Matures	CDs	Agencies	LGIPs	LAIF	Cost	Market
FNMA	01/09/13	1.125	0.705	04/27/17	-	1,017,750	-	-	1,017,750	1,001,000
SAFRA CD	01/28/16	0.900	0.900	04/28/17	245,000	-	-	-	245,000	245,218
Cardnl Bk CD	01/30/15	1.000	1.000	07/31/17	245,000	-	-	-	245,000	245,639
Mbank CD	09/20/13	1.500	1.500	09/20/17	245,000	-	-	-	245,000	246,235
FNMA	02/24/15	0.875	0.917	10/26/17	-	499,465	-	-	499,465	500,290
FNMA	12/02/15	0.875	0.917	10/26/17	-	499,625	-	-	499,625	500,290
Compass CD	12/09/15	1.300	1.300	12/11/17	245,000	-	-	-	245,000	245,968
FFCB	10/22/15	0.840	0.840	01/22/18	-	500,000	-	-	500,000	499,005
FFCB	10/21/15	0.930	0.930	04/13/18	-	499,705	-	-	499,705	498,825
Am Exp CD	04/29/15	1.100	1.100	04/30/18	245,000	- -	-	-	245,000	245,576
FNMA	11/12/15	0.875	1.090	05/21/18		497,325	-	-	497,325	498,875
Synchrony CD	06/13/14	1.600	1.600	06/13/18	245,000	-	-	-	245,000	246,279
Goldman CD	08/19/15	1.700	1.700	08/20/18	245,000	-	-	-	245,000	246,798
GE Cap CD	09/05/14	1.800	1.800	09/05/18	245,000	-	-	-	245,000	247,146
FHLB	06/29/15	1.200	1.260	09/26/18	-	499,050	-	-	499,050	500,255
Capital 1 CD	10/13/15	1.650	1.650	10/09/18	179,000	-	-	-	179,000	180,258
Ally Bank CD	10/29/15	1.600	1.600	10/29/18	245,000	-	-	-	245,000	246,700
Sallie Mae CD	12/09/15	1.600	1.600	12/10/18	245,000	-	-	-	245,000	246,423
FHLB	02/08/17	1.240	1.240	01/23/19	-	500,000	-	-	500,000	499,185
FNMA	07/25/16	1.000	1.000	01/25/19	-	499,900	-	-	499,900	495,960
FHLMC	04/27/16	0.750	0.750	04/26/19	-	750,000	-	-	750,000	749,573
Enerbank CD	06/18/15	1.500	1.579	05/15/19	232,301	-	-	-	232,301	233,361
FHLMC	06/28/16	1.000	1.000	06/28/19	-	750,000	-	-	750,000	746,670
FFCB	07/12/16	1.080	1.080	07/12/19	-	499,675	-	-	499,675	493,610
FHLMC	08/30/16	1.000	1.000	08/28/19	-	750,000	-	-	750,000	746,985
Barclays CD	09/16/15	1.900	1.900	09/16/19	245,000	-	-	-	245,000	248,268
FHLMC	09/25/15	1.250	1.317	10/02/19	-	498,665	-	-	498,665	497,110
FHLB	10/28/16	1.190	1.190	10/28/19	-	500,000	-	-	500,000	494,720
FHLMC	08/22/16	1.000	1.000	11/22/19	-	750,000	-	-	750,000	744,953
FNMA	06/30/16	1.350	1.350	12/30/19	-	500,000	-	-	500,000	495,105
FNMA	10/19/16	1.300	1.300	03/30/20	-	500,000	-	-	500,000	494,565
FNMA	05/27/16	1.500	1.500	05/29/20	244.510	750,000	-	-	750,000	736,838
HSBC Bank CD	09/16/16	1.400	1.400	07/08/20	244,510	-	-	-	244,510	242,714
FHLB	11/22/16	1.200	1.200	07/13/20	-	492,970	-	-	492,970	491,040
FNMA	08/24/16	1.400 1.500	1.400	08/24/20	245,000	1,000,000	-	-	1,000,000	986,880 241,038
Discover CD	10/26/16		1.500	10/26/20	245,000	400 600	-	-	245,000	
FFCB	11/04/16	1.380 1.770	1.380	11/02/20	-	499,600	-	-	499,600	487,655 248,623
FFCB	12/07/16	1.770	1.770 1.400	12/07/20	-	249,438	-	-	249,438	489,040
FNMA FFCB	10/28/16 11/18/16	1.620	1.620	01/28/21 02/17/21	-	500,000 149,667	-	-	500,000 149,667	148,232
FHLMC	02/26/16	1.020	1.020	02/17/21	-	514,000	-	-	514,000	508,870
	03/04/16	1.150	1.150	03/04/21	243,000	514,000 -	-	-	243,000	244,042
Wells Fargo CD FFCB	03/04/16	1.620	1.620	04/12/21	243,000	749,925	-	-	749,925	728,183
Comenty Bk CD	06/30/16	1.650	1.650	06/30/21	245,000	149,923	-	_	245,000	241,977
		1.500	1.500	0 = 10 = 10 4	243,000	500,000	-	-		484,500
FNMA JPM Chase CD	07/27/16 08/16/16	1.650	1.650	07/27/21 08/16/21	245,000	300,000	-	-	500,000 245,000	240,039
FHLMC	08/25/16	1.600	1.600	08/25/21	243,000	1,000,000	-	-	1,000,000	968,460
FHLB	09/30/16	1.625	1.625	09/30/21		1,000,000		_	1,000,000	968,300
FNMA	10/31/16	1.550	1.550	10/28/21	-	1,000,000	_	-	1,000,000	970,880
FHLMC	11/30/16	1.875	1.875	11/30/21	-	1,000,000	_	-	1,000,000	989,449
SDCIP	Various	1.075	1.038	Open	_	-	5,165,766	_	5,165,766	5,136,000
LAIF	Various		0.777	Open	_	_	-	22,371,614	22,371,614	22,358,725
Total Cost			J.,,,,	open	4,328,811	19,916,760	5,165,766	22,371,614	51,782,951	22,330,723
Unrealized Gain/(Loss)			4,328,811	(252,835)	(29,766)	(12,890)	(290,621)			
` '									¢ 51 402 220	
Market Value				\$ 4,333,681	\$ 19,663,925	\$ 5,136,000	\$22,358,724	\$ 51,492,330	\$ 51,492,330	
Percentage of Portfolio				8.4 3 4		10.0%	43.2%			
Investment Policy Limits					20.0%	60.0%	40.0%	60.0%		





MARCH 2017

Vallecitos Board Declares Drought Over

On February 15, 2017, the Vallecitos Water District's Board of Directors voted to rescind the voluntary drought restrictions under its "Level 1 – Drought Watch." Vallecitos customers may irrigate any day of the week with no limit on the number of watering days, and may irrigate their landscapes for as many minutes as needed. However, the Board continued to express their desire to sustain water conservation as a permanent way of life. Vallecitos' ordinance permanently prohibits the following wasteful practices:

- A customer shall not allow water to leave the customer's property by drainage onto adjacent properties or public or private roadways or streets or gutters due to excessive irrigation and/or uncorrected leaks.
- The application of potable water to outdoor landscaping during and after 48 hours of a measurable rain event.
- Washing any paved area (sidewalks, driveways, parking areas, tennis courts, etc.) is only allowed to alleviate immediate safety or sanitation hazards. To relieve hazards, only a power washer or a hose with a shutoff nozzle may be used.
- Most irrigation must occur before 10:00 a.m. or after 6:00 p.m.
- A customer shall not use non-recirculating ornamental or cascading fountains.

- Vehicle washing shall only be done in a commercial car wash or by using a hose with an automatic shutoff nozzle or hand-held container.
- A customer shall not continuously fill swimming pools and spas that are draining due to uncorrected leaks.
- Customers shall repair or stop all water leaks upon discovery or within 48 hours of notification by allecitos Water District.
- The use of potable water for irrigation of ornamental turf within the public street rights of ways, including adjacent landscape strips.
- Restaurants and other food establishments shall only serve and refill water upon request
- Guests in hotels, motels, and other commercial lodging establishments shall be provided the option of not laundering towels and linens daily.

Vallecitos' resolution was approved in response to the San Diego County Water Authority's action on January 26, 2017, declaring the drought over in San Diego County.

For more detailed information on the permanent prohibitions, go to www.vwd.org/drought.



The Vallecitos Water District's newsletter has a new look. We've replaced "Splash!" with a new name: "Between the Pipes." Our new name more accurately reflects the work that we do to provide water, wastewater and recycled water services.

Rate study underway

Living in a semi-arid desert, much of our water comes by way of the Bay Delta in Northern California and the Colorado River through two of the most complex delivery systems in the world. Recently, Vallecitos began receiving a new drought-resilient, local water supply from the desalination plant in Carlsbad. Although these sources have done much to improve our quality of life, transporting water from these origins does come at a premium price.

Regardless of the source, it costs money to treat the water, test the quality, keep it safe, store it for later use, and pump it through miles of canals, tunnels, or pipelines.

Our region's water supplies have become increasingly more expensive for three main reasons:

- The increasing cost of new water supplies.
- Rate increases by the Metropolitan Water District of Southern California, our region's largest water supplier.
- Construction, financing and debt costs for major local and regional water projects that enhance water supply reliability for our area.

Rate increases will soon be necessary to cover these escalating costs so we can continue to do what we do best...providing safe, reliable and sustainable water and wastewater services to our customers. In the coming months, Vallecitos' Board will consider rate increases. Even with the upcoming proposed rate increases, it's important to remember that:

- Vallecitos is a public agency and does not operate for profit, therefore we can only charge the actual cost for any services we provide.
- As 100% of our water is imported, when our wholesalers raise the water rates, this can significantly a fect our customers' water bills.
- Vallecitos' rates and charges are structured to reduce rate volatility that results from fluctuations in sales
- Vallecitos works very hard to keep rates as low as possible. As an example, 96 percent of what our average customer pays for water is what we pay our wholesaler for the same water.
- Vallecitos still has some of the lowest water rates in San Diego County.

Glenn Pruim appointed as Vallecitos' new General Manager

The Vallecitos Water District is pleased to announce that after a nationwide search with over 50 applicants, the Board of Directors appointed Glenn Pruim as its new General Manager. Mr. Pruim replaced Dennis O. Lamb, who retired last June.

Glenn Pruim received both his Bachelors and Masters of Civil Engineering from the University of Illinois. A registered engineer in Civil and Mechanical Engineering, Glenn Pruim has an extensive background in public works, engineering, and water and wastewater operations. During his ten years at the City of Carlsbad, he served as City Engineer, Public Works Director and General Manager/ Utilities Director of the City's subsidiary, Carlsbad Municipal Water District.

Further, he functioned as lead negotiator with Poseidon Resources and the San Diego County Water Authority for the Carlsbad Desalination Project. More recently, Mr. Pruim

worked for the City of Encinitas and San Dieguito Water District as Public Works Director/General Manager, where he concurrently held titles of: City Engineer, Public Works Director, San Dieguito Water District General Manager, Encinitas Sanitary District General Manager and Cardiff Sanitation District General Manager.

We are excited to have Glenn join us," said Vallecitos Board President, Craig Elitharp. "After a nationwide search we selected the ideal candidate: a General Manager with skills in drinking water, desalinated water, recycled water and wastewater collection — and also one who knows and understands California's water woes as well as the local North County community."

"I'm very excited to join Vallecitos as the General Manager. In my previous positions with Carlsbad and Encinitas, I have worked side by side with Vallecitos on water and wastewater issues and have always been impressed by their leadership and professionalism. I've also been a Vallecitos customer for the past 14 years and have received excellent service."

Glenn Pruim and his wife Jeanne live in San Marcos. They are parents to five sons Mr. Pruim started his new duties in November of 2016.

Item 1.4



201 Vallecitos de Oro San Marcos, CA 92069 (760) 744-0460 www.vwd.org

Board of Directors

Division 1: Betty Evans Division 2: Jim Hernandez Division 3: Craig Elitharp Division 4: Mike Sannella Division 5: Hal Martin



Between the Pipes is a publication of information and interest to Vallecitos water and sewer customers. If you receive water or sewer services from another district, please disregard any information that does not apply to you. PRSRT STD U.S. Postage PAID San Diego, CA Permit no 906

ECRWSS

Postal Customer

Management Staff

Glenn Pruim, General Manager Tom Scaglione, Assistant General Manager Rhondi Emmanuel, Administrative Services Manager John Fusco, Finance Manager Ed Pedrazzi, Operations and Maintenance Manager James Gumpel, District Engineer

The public is welcome to attend the Vallecitos Board

Meetings the first and third Wednesday of each month at 5:00 pm
in the Administration building—201 Vallecitos de Oro in San Marcos.

Meetings are also aired on San Marcos TV on Cox Communications Channel 19, Time Warner Channel 24 or AT&T U-verse Channel 99, which air on the Monday following the Wednesday meeting at 6:30 pm. Visit www.san-marcos.net/smtv for programming schedule.





Craig Elitharp named 2017 Board President



At a regular meeting held on December 7, 2016, the Vallecitos Board voted to move forward with their annual reorganization. Craig Elitharp was elected unanimously to serve as president and Jim Hernandez to serve as vice president for 2017.

President Craig Elitharp, Division 3 representative, was first elected to the District's Board of Directors in 2014. He retired from the Rancho California Water District in June 2014 with more than 24 years of experience managing water and wastewater operations.

Vice President Jim Hernandez, Division 2 representative, was elected to the Board in 2010. Jim is an architect and small business owner and has lived in San Marcos for more than 40 years.

Elitharp and Hernandez are joined by three Directors who were all recently re-elected to the Vallecitos Board: Directors Betty Evans, Division 1; Mike Sannella, Division 4; and Hal Martin, Division 5.

The Board meets regularly the first and third Wednesday of each month at 5:00 p.m. in Vallecitos' Administration Building, located at 201 Vallecitos de Oro, in San Marcos. The meetings are open to the public.

38 Item 1.4

DATE: MARCH 15, 2017

TO: BOARD OF DIRECTORS SUBJECT: PUMP ZONE CHARGES

BACKGROUND:

At its January 18, 2017 meeting, the Vallecitos Water District Board considered an item to change the pump zone charges. These surcharges are intended to recover the cost of electricity used to pump water to higher pressure zones in the District's service area. The fundamental policy governing this issue is that those properties benefitting from the pumping operations should pay for the cost of power to pump to these higher elevations.

At the meeting, the Board was presented with a revised pump zone surcharge schedule that was developed by looking at the electricity costs incurred in each pump zone as well as the amount of water which was pumped to the higher elevations in those zones. The calculations resulted in a table of surcharges per unit of water pumped in each zone. The table also included the current pump zone surcharges per zone and presented the difference in the existing and proposed surcharges. In each zone, the proposed surcharge was higher than the existing surcharge. The Board was also presented an option to phase in the surcharge increases. The phasing included implementing two-thirds of the increase effective immediately and the other one-third on July 1, 2017. A copy of the January 18 staff report is included as Attachment 1.

At that meeting, the Board elected to increase the surcharges per the recommended chart in one step, with no phasing. The Board also directed staff to delay any increases until the affected pump zone customers had a chance to review the proposed increase and provide feedback. Staff was directed to provide a letter to each pump zone customer to inform them of the proposed increase and to provide at least 45 days for the customers to provide feedback prior to the surcharges becoming effective.

Letters to the customers were mailed on February 28, 2017. Subsequent to delivery of the letters, pump zone customers have provided feedback in a number of ways, including telephone calls to the District's Customer Service number, District staff, Board members and City Council members, as well as letters and social media posts. As of March 8, 2017, the Customer Service department has received approximately 20 calls regarding this issue. The primary concerns raised by the customers relate to the amount of the increase, the short notice provided and the lack of any phasing in the establishment of new surcharges. The majority of complaints were generated in the Coronado Hills pump zone, which would have seen the largest charge increase.

DISCUSSION:

The purpose of this item is to provide the Board and the public an opportunity to discuss pump zone surcharges before implementation. In a complex water distribution system, with large volumes of water being pumped to a variety of customers in numerous pump zones, there is not one specific way to calculate and allocate the surcharges. Fundamentally, however, the basic premise applies that customers who receive a benefit not received by other customers should pay for that benefit.

Given the interconnected nature of the District's water storage and distribution system, and the various water supply sources and delivery systems, it can be argued that not all pump zone operations solely benefit those customers in the designated pump zones.

At the meeting on March 15, 2017, staff will present the Board with several different options regarding how these pump zone surcharges should be allocated. The options may include allocating costs based on:

- The actual electricity costs, number of customers and water delivered within a specific pump zone
- All customers in the pump zones sharing in the pumping costs based on a combination of how much water is pumped to each zone and how high the zone is (weighted lift-volume approach)
- All customers in the pump zones equally sharing the pumping costs based solely on how much water is pumped to that zone
- All customers in the District sharing in the costs associated with pumping water to higher elevations
- Customers in non-pump zones (lower elevations) sharing in the pumping costs in a manner relative to the benefits they could receive from having water stored at higher elevations

In addition to providing staff direction on the preferred alternative for allocating the pumping costs, staff is seeking direction on the timing/phasing of the implementation of revised pumping cost recovery.

RECOMMENDATIONS:

Staff is seeking direction on the Board's preferred methodology of pump charge allocation as well as direction as to when the surcharges should become effective and whether there should be a phased implementation for the revised surcharges.

Attachment 1

DATE:

JANUARY 18, 2017

TO:

BOARD OF DIRECTORS

SUBJECT: PROPOSED PUMP ZONE CHARGES FOR CALENDAR YEAR 2017

BACKGROUND:

The District established ten pump zones, servicing approximately 2,867 customers, to recover the cost of electricity related to pumping water to higher elevation customers. Only customers directly benefiting from the additional cost of pumping are charged the actual power cost for water delivered.

Pump zone charges were last adjusted on July 1, 2015 (Current pump zone charges and expenses are listed on Table 1). Traditionally, adjustments to the pump zone charges occur every July.

DISCUSSION:

Pump zone charges are determined by tracking the actual SDG&E power costs to provide the service to the respective pump zone. Over the past several years, the pump zone charges have not kept pace with the escalating cost of electricity required to pump water to the higher elevations, resulting in a deficit of approximately \$319,000 as of November 30, 2016. The deficit is growing by about \$20,000 per month.

Graph 1 shows the historical revenues (green bar) compared to the cost of electricity (purple bar) as well as the overall surplus/deficit (red line).

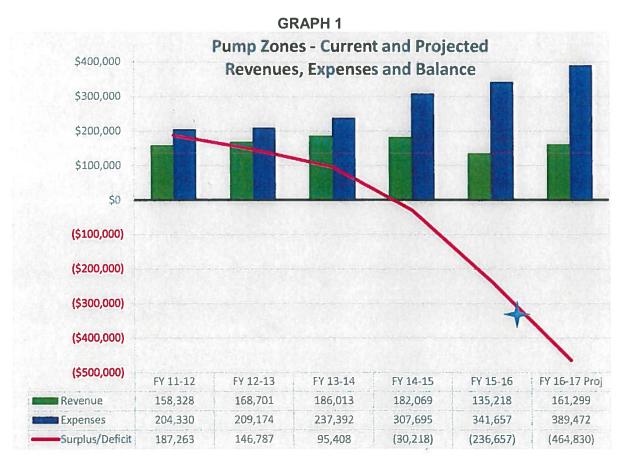


Table 1 displays the existing customer charge per unit of pumped water as well as the SDG&E calculated expense per zone. In all ten of the pump zones, the current charge passed on to the

customer is below the cost of providing the service. Customers in these zones have been subsidized by customers outside of the pump zones. (HGL = Hydraulic Grade Line)

TABLE 1

# of Meters	PUMP ZONE	Existing Charge	SDG&E Calculated Expense	Per Unit Shortage
127	1 - North Twin Oaks - 1,330 HGL	\$0.50	\$0.94	\$0.44
58	2 - Deer Springs - 1,235 HGL	0.20	0.47	0.27
25	3 - Coggan - 1,608 HGL	0.15	0.92	0.77
159	4 - Coronado Hills - 1,530 HGL	0.06	1.24	1.18
12	5 - Wulff - 1,588 HGL	0.58	1.02	0.44
710	6 - Palos Vista - 1,500 HGL	0.25	0.42	0.17
869	7 - School House - 1,115 HGL	0.01	0.12	0.11
797	8 - Double Peak - 1,530 HGL	0.18	0.24	0.06
125	9 - Meadowlark - 815 HGL	0.15	0.38	0.23
0	10 - High Point - 1,608 HGL	0.42	0.45	0.03

Currently the average customer in a pump zone (defined as a 5/8" meter using 12 units of water/month) has a combined water/sewer bill of approximately \$116.50/month. Passing through the entire SDG&E expense (Table 1) effective January 1, 2017 would increase the *average* customer's bill by approximately \$2.40/month.

An alternative to full cost recovery would be to only pass through 2/3 of the difference between the actual SDG&E power cost and the existing pump zone charges effective January 1, 2017 as shown in Table 2. The adjustment for the remaining 1/3 difference would be effective July 1, 2017. This alternative would increase the deficit by about \$11,000 per month for an overall projected deficit of \$414,000 at fiscal year-end.

TABLE 2

		Current	Alterna	ative 2
# of Meters	PUMP ZONE	Existing Charge	Per Unit Charge Jan 1, 2017	Per Unit Charge Jul 1, 2017
127	1 - North Twin Oaks - 1,330 HGL	\$0.50	\$0.79	\$0.94
58	2 - Deer Springs - 1,235 HGL	0.20	0.38	0.47
25	3 - Coggan - 1,608 HGL	0.15	0.66	0.92
159	4 - Coronado Hills - 1,530 HGL	0.06	0.84	1.24
12	5 - Wulff - 1,549 HGL	0.58	0.87	1.02
710	6 - Palos Vista - 1,500 HGL	0.25	0.36	0.42
869	7 - San Elijo - 1,115 HGL	0.01	0.08	0.12
797	8 - Double Peaks - 1,530 HGL	0.18	0.22	0.24
125	9 - Meadowlark - 815 HGL	0.15	0.30	0.38
0	10 - High Point - 1,608 HGL	0.42	0.44	0.45

Future year pass through adjustments will be effective annually on July 1st based on the previous year's actual average energy cost of pumping water to each of the individual pump zones.

FISCAL IMPACT:

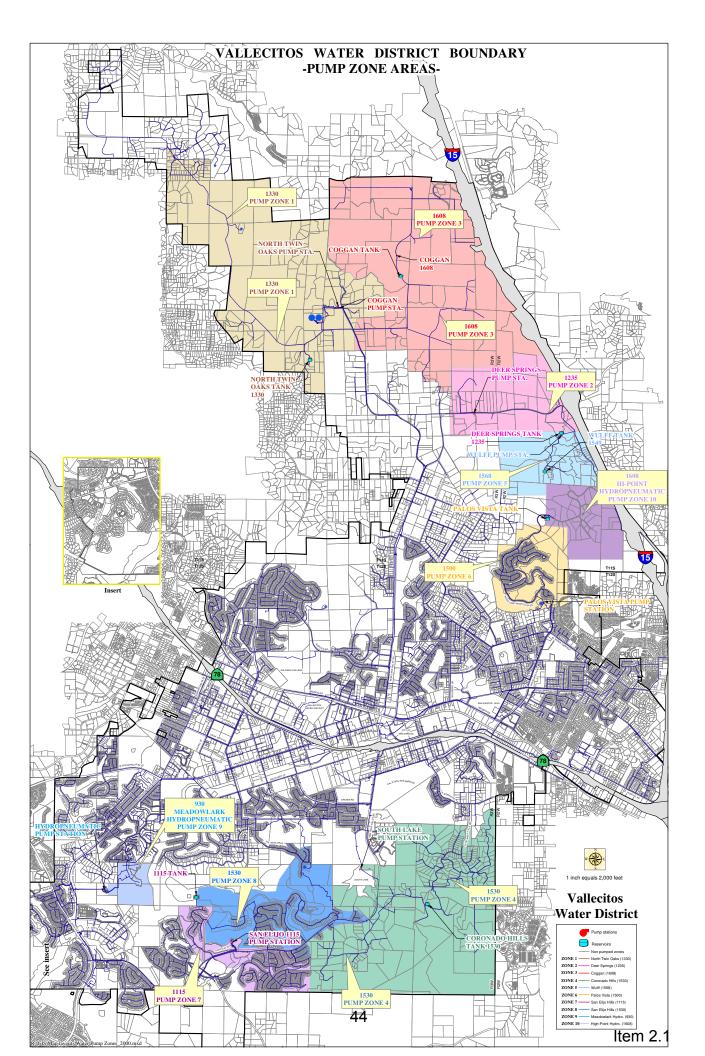
The adopted budget for fiscal year 2016/17 included \$300,000 in pumping charge revenue.

Adopting the pass through charges as shown in Table 1 (effective January 1, 2017 for bills mailed out after February 1, 2017) would recover pumping charges of approximately \$237,000, which is \$63,000 less than budgeted

Adopting the pass through charges as shown in Table 2 (effective January 1, 2017 for bills mailed out after February 1, 2017) would recover pumping charges of approximately \$211,000 which is \$89,000 less than budgeted.

RECOMMENDATION:

Staff recommends adoption of either Alternative 1 (Table 1) or Alternative 2 (Table 2) to be effective January 1, 2017 for bills mailed after February 1, 2017 and authorize staff to adjust pumping charges annually on July 1st to allow for full cost recovery.



DATE: MARCH 15, 2017

TO: BOARD OF DIRECTORS

SUBJECT: CHANGE ORDER REQUEST FOR MEADOWLARK WATER

RECLAMATION FACILITY (MRF) TERTIARY MEDIA FILTER

REPLACEMENT

BACKGROUND:

MRF has six (6) concrete tertiary filters that process secondary wastewater effluent into recycled water. The media in the basins was installed in 2005 during a plant upgrade. The current media profile is being replaced with finer media to assist in removing smaller particles from the secondary wastewater effluent thereby improving turbidity and the quality of the recycled water. The new media will also reduce chemical use and increase efficiency of the filters.

DISCUSSION:

During removal of the existing media in the first three (3) tertiary filters, the epoxy coating of the concrete walls showed significant signs of failure. Failure of the concrete coating system is below the elevation of the media and therefore was not detected until the media was removed. If left unaddressed, failure of the coating system can cause structural degradation of the concrete over time.

The existing coating system is a high solids epoxy paint and was installed per the original specifications to protect the concrete filters from the secondary wastewater effluent. Modifications to the original design added a chlorine injector system upstream of the tertiary filters. This system adds chlorine to the effluent, necessary to reduce algal and bacteria growth in the filters, which can "foul" or clog the filters. The design modifications at that time did not upgrade the coating to a more robust, chlorine resistant system.

District Ordinance 146 Section 4.1.1 requires Board approval for change orders exceeding 10% of the Contract Value. However, staff requested the contractor begin repairs to the coating system under a contract change order for the following reasons:

- Prevents significant additional cost to repair the coating system later. Any recoating in the filters would require removal and replacement of media.
- To prevent construction delay costs.
- To reduce delays to the construction schedule which is affecting MRF returning to full operational capacity. Full operational capacity is necessary to meet contractual obligations, especially for the upcoming Spring and Summer months when recycled water demands increase.

FISCAL IMPACT:

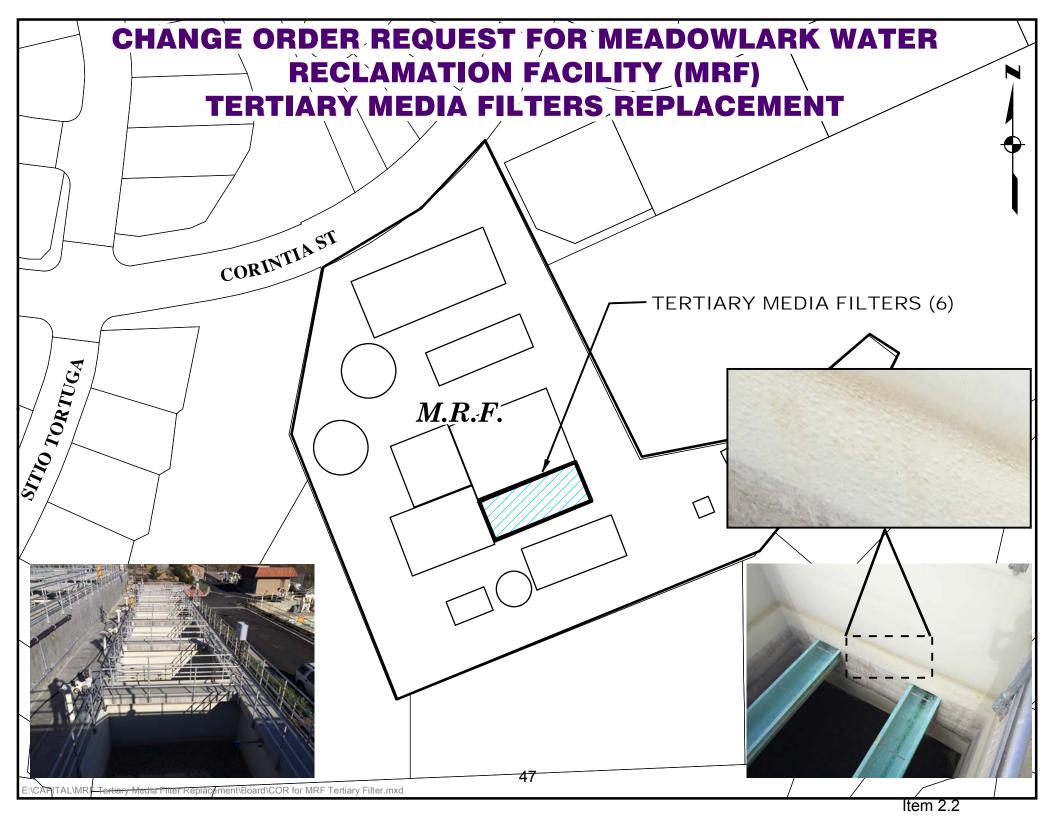
The total cost and budget summary are as follows:

Budget	\$	545,000
Construction 10% Contingencies (estimate) Specialty Services Design Staff Overhead Total at time of Project Award	\$ \$ \$ \$ \$ \$ \$ \$ \$	250,753 25,075 25,460 36,177 35,570 63,910 436,945
Change Order 1	\$	153,803
Current Total	\$	590,748
Budget Overage	(\$	45,748)

A budget adjustment is not requested at this time and will be evaluated after the project is complete. If a budget adjustment is necessary, additional funds will be paid for out of the sewer replacement reserves.

RECOMMENDATION:

Approve construction change order to Carbon Activated Corporation in the amount of \$153,803 for the MRF Tertiary Media Filter Replacement, subject to provisions of the contract.





DATE: MARCH 15, 2017

TO: BOARD OF DIRECTORS

SUBJECT: 2017 COST OF SERVICE AND RATE STRUCTURE STUDY REVIEW AND

UPDATE

BACKGROUND:

At the February 15, 2017 Board meeting, staff presented the development of the 2017 Cost of Service and Rate Structure Study. Consensus was provided by the Board to proceed with a water rate structure tiered by customer classes according to meter size. The Board also provided consensus to base the highest of the three tiers on average maximum use, leaving some committed desalinated water purchases in Tier 3 and moving some from Tier 3 to Tier 2.

DISCUSSION:

Staff has completed a spreadsheet documenting methodologies, processes and calculations for the study. All pages from the spreadsheet are attached and will be presented. This spreadsheet will be the basis for the Rate Model and final report.

FISCAL IMPACT:

None.

RECOMMENDATION:

This item is for discussion only.

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Water Rate History

	2002	Rate	es		
RT	S		Per		
for 5	/8"	Metered			
Me	ter		Unit		
\$	9.16	\$	1.53		

San Diego County Water Authority unbundled their rate in 2013, switching from just a rate per Acre foot to fixed and variable charges. The per AF charge decreased when fixed costs were recovered separately. VWD implemented a tiered rate structure (by customer type) to mitigate any conservation incentive lost from passing through more fixed costs on the RTS and lowering the commodity charge.

2003 Rates									
RTS	Per Metered Unit								
for 5/8"		A Unit = 100 Cu Ft, or 748 gallo							
Meter		Tier	Tie	r 2	Tie	er 3			
\$ 11.55	\$	1.41	\$	1.44	\$	1.59			
Residentia	1 to 2	16	17 to 3	4	35 +				
Irrigatior	1 to 2	174	175 to 769		770 +				
Commercial	1 to 6	1 to 61		62 to 529					
Agricultura	1 to 4	415	416 to 2,449		2,450	+			

2010 Commodity Rates								
	Tie	r 1	Ti	er 2	Tier 3			
M&I	\$	2.60	\$	3.25	\$	3.90		
Ag	\$	2.60	\$	2.82	\$	3.01		
Multifamily	1 - 6		7 - 11		12 +			
Meters								
< 1"	1 - 17		18 - 30	5	36+			
1"	1 - 60		61 - 23	14	215 +			
1.5"	1 - 157	•	158 - 6	527	628 +			
2"	1 - 242		243 - 8	306	807 +			
> 2"	1 - 1,13	33	1,134	- 3,970	3,971	+		

Starting in 2003, tier limits were established for each category of customer by analyzing average use and total use within the category. Ninety percent of average monthly use was set as the Tier 1 limit. The amount of use per customer totaled within each category that captured 90% of the use within that category was set as the Tier 2 limit.

The next significant change in commodity rates was effective in 2010. Customer classes were changed from type to meter size and tier price ranges were widened to induce conservation. The board contemplated a change to budget based rates. Tiers by meter size allowed bigger allotments for justified higher demands without having to go through complex technical billing changes figuring out a separate budget for every single parcel. Larger meters also paid higher RTS charges and paid for more capacity that they would otherwise be penalized for using had the District retained tiers by customer type. Tier breaks were calculated as before: the first at 90% of average use, the second capturing 90% of total demand. Ag's tiers accelerated less because the incentive to conserve already existed as water is a growers most significant cost. Tier premium revenue was compared to conservation costs and the cost of SDCWA water beyond MWD (cost of diversification) to ensure that tier premiums weren't inflated (overcharged).

2017 Commodity Rates								
	Tie	r 1	Tie	r 2	<u></u>	ier 3	Tier 4	
M&I	\$	3.08	\$	4.12	\$	5.33	\$	7.41
Ag	\$	3.08	\$	4.12	\$	4.12	\$	4.12
Multifamily	1 - 5		1 - 6		7 - 1	1	12 +	
Meters								
< 1"	1 - 5		6 - 17		0 - 17	7	36 +	
1"	1 - 5		6 - 60		61 - 2	214	215 +	
1.5"	1 - 5		6 - 157		158 -	627	628 +	
2"	1 - 5		6 - 242		243 -	806	807 +	
> 2"	1 - 5		6 - 1,13	3	1,134	4 - 3,970	3,971 +	F

For multifamily, the first tier is per meter, Tiers 2 through 4 are per dwelling unit. The Ag tier was flattened to align with the industry standard. The first outside cost of service study was prepared by Black & Veatch for 2013 rates. B&V affirmed the meter size methodology for tiers but used peaking factors to differentiate pricing. The study addressed a frugal use discount in place and recommended suspending the discount as it was not consistent with nexus requirement of Propositions 218 and 26 and the discount was only available to residential customers who used 5 units or less for the month. To ease the burden to low water users, the Board carved out a low tier, 1 to 5 units, for all customers, assigning only wholesales costs to that tier.

Water Rate History

B&V was engaged again to perform a cost of service and rate study in 2016. Staff expressed concerned regarding tiers by meter size and compliance with Proposition 218.B&V's 2016 study eliminated the 5 unit carve out tier and changed customer class from meter size back to customer type, assigned 3 tiers to residential, 2 tiers to irrigation, and flat for remaining customers. The Board did not adopted the study or recommended rates, but instead passed through half of the wholesale increase which was significant due to 2016 being the first and full year of committed desal deliveries.

The main concern raised by the District's legal counsel regarding tiers by meter size was that two neighbors that use the same amount of water will be billed different amounts just because one has a 3/4" meter and the other a 1" meter. District staff researched and compared the District's current rate structure to a budget-based rate structure and the 2016 B&V rate structure. As shown in the table below, for customers using 60 units of water, a VWD customer with a 3/4" meter paid 42% more for water than a customer with a 1" meter. From a random sample of 10 Rancho California Water District bills, a customer using 60 units of water with a 3/4" meter pays 269% more than a customer using the same amount of water with a 1" meter. At Rancho, as with all agencies using budget-based rates, every customer will likely pay a varying amount for the same water use, because every customer has a unique water budget imposed upon them. The B&V rate structure also yielded varying cost recoveries for a single family resident with 60 units paying 61% more for the same amount of water through an irrigation meter.

	Monthly Bill														
Units	VWD's 20	17 R	lates		Budget Ba	ased	Rates			B&V 201	7 P	roposed	Rat	es	
used	 3/4"		1"		3/4"		1"		SFR	 Irr		CI	Р	ublic	Ag
34	\$ 155	\$	135	\$	113	\$	36	\$	206	\$ 130	\$	166	\$	171	\$ 163
60	344		242		277		75		404	251		320		301	287
166	1,129		807		947		234		1,214	754		947		907	795

Water budgets imposed within a budget-based structure are justified through a complex analysis of each individual customer's needs. A meter-sized rate structure justifies need because larger meters are only provided to customers that have greater demands. A water rate structure tiered by meter size simulates the same allotments as a budget-based system without having to implement resource-draining methods, procedures, and technologies. Customers with larger meters pay higher ready-to-serve charges and paid for greater capacity in the system. Not recognizing meter sizes in a rate structure penalizes these customers for using capacity that is justified and paid for. This study analyzed the relative standard deviations of VWD use within customer classes by meter size and cusotmer classes by customer type and found that usage within meter size was more homogenious than usage with customer type classes.

Customer Classification Considerations

Concerns were raised during the last rate study about tiering the rate structure by meter size because it resulted in customers paying varying amounts for the same usage because they have different meter sizes. As documents on the Rate History spreadsheet, comparisons to budget-based rate structure and structures tiered by customer type yielded greater variances from customer to customer for the same use. The analysis in the tables below compare the relative standard deviations of use by the District's customers grouped by meter size and grouped by customer type. There was less deviation when customers were grouped by meter size in both 2015 and 2016. Per AWWA's MI Manual, customer classification is "the grouping of customers into homogeneous groups or classes." The analysis below shows that grouping by meter size are more homogeneous than groupings by customer type. The analysis used average use rather than peaking because since the District is a water imported, the largest cost by far is supply, and supply now varies in cost. Peaking, or maximum monthly demands, were not analyzed since peaking makes up only 12% of recoverable costs, while supply was 78% according to the last cost of service study. Also, a meter-sized rate structure justifies need because larger meters are only provided to customers that have greater demands. A water rate structure tiered by meter size simulates the same allotments as a budget-based system without having to implement resource-draining methods, procedures, and technologies. Customers with larger meters pay higher ready-to-serve charges and paid for greater capacity in the system. Not recognizing meter sizes in a rate structure penalizes these customers for using capacity that is justified and paid for.

	CY 2016							
Meter		Avg Use	Standard	Deviation				
size	# meters	p <u>er Mont</u> h	<u>Absolute</u>	Relative				
< 1"	19,239	12	11	96%				
1"	1,021	40	66	164%				
1.5"	689	101	152	151%				
2"	505	188	236	126%				
> 2"	101	511	754	148%				

	<u> </u>	CY 2016								
Customer		Avg Use	Standard Deviation							
Туре	# meters	p <u>er Mont</u> h	<u>Absolute</u>	Relative						
Residential - SF	19,036	12	11	96%						
Residential - MF	512	142	282	198%						
Irrigation	826	106	175	165%						
Agriculture	115	280	450	160%						
Comm/Ind	939	49	106	216%						
Other	91	126	317	252%						

MeterAvg UseStandard Deviationsize# metersper MonthAbsoluteRelative			CY 2015							
	Meter		Avg Use	Standard	Deviation					
	size	# meters	p <u>er Mont</u> h	<u>Absolute</u>	Relative					
<1" 19,206 11 11 93%	< 1"	19,206	11	11	93%					
1 " 1 ,016 37 55 147 %	1"	1,016	37	55	147%					
1.5" 682 94 150 160%	1.5"	682	94	150	160%					
2 " 500 170 217 127%	2"	500	170	217	127%					
> 2" 95 476 682 143%	> 2"	95	476	682	143%					

	<u> </u>	CY 2015								
Customer		Avg Use Standard Dev								
Туре	# meters	p <u>er Mont</u> h	<u>Absolute</u>	Relative						
Residential - SF	18,997	11.47	13	116%						
Residential - MF	506	140.48	280	199%						
Irrigation	818	84.51	132	156%						
Agriculture	117	282.19	484	171%						
Comm/Ind	942	47.55	97	205%						
Other	89	123.79	321	259%						

Demand Projections Demand in Acre Feet Increase **M&I** Meters AG Construction **Total** # of Meters Meter% **M&I Demand** 17,595 2007 19,929 2,438 465 20,499 2008 20,332 17,121 1,685 252 19,058 403 2.0% -2.7% 2009 20,445 14,985 1,607 16,655 0.6% -12.5% 62 113 С 2010 20,459 13,250 1,176 41 14,466 14 0.1% -11.6% 2011 20,622 13,532 40 14,634 163 0.8% 1,062 2.1% 20,828 u 2012 14,109 1,342 38 15,489 206 1.0% 4.3% a 2013 21,080 14,399 1,535 50 15,984 252 1.2% 2.1% 2014 21,273 14,994 1,455 74 16,522 193 0.9% 4.1% 2015 21,340 991 37 12,426 11,398 67 0.3% -24.0% 2016 21,397 12,236 909 145 13,290 57 0.3% 7.4% assumptions: 3% increase in M&I - 0.3% growth, 2.7% behavior; 2017 21,460 12,600 900 100 13,600 1% decline in Ag; 30% decreasae in construction water assumptions: 3% increase in M&I - 0.3% growth, 2.7% behavior; 21,530 2018 13,000 900 100 14,000 Ag and construction flat assumptions: 3% increase in M&I - 0.3% growth, 2.7% behavior; 2019 21,610 13,400 900 100 14,400 Ag and construction flat assumptions: 3% increase in M&I - 0.3% growth, 2.7% behavior; 2020 21,700 13,800 900 100 14,800 Ag and construction flat assumptions: 3% increase in M&I - 0.3% growth, 2.7% behavior; 2021 21,800 14,200 900 100 15,200 Ag and construction flat 25,000 20,000 15,000 10,000 5,000 2016 2015 2014 2018 2019 2008 2010 2013 2017 2009 2012 2011 Actual Projected -Meters — Demand in Acre Feet

Cost Considerations

The District reviewed the allocation of all costs to be recovered through water charges (RTS and commodity) in the 2016 B&V COSS in order to plan and set the focus for this Study. Supply is the biggest cost, making up 78% of all recoverable cost according to B&V's study. Supply also now has three distinct sources and a different price associated with each source.

	Costs in Millions				
Supply	\$	19.5	78%		
O&M - base		1.4	6%		
O&M - peaking		1.6	6%		
Conservation		0.6	2%		
Capital - base		0.6	2%		
Capital - peaking		1.4	6%		
	\$	25.1	100%		

Prior Cost of Service Studies have focused on peaking to distinguish tier breaks and cost differential between tiers. Since costs allocated to peaking last study made up only 12% of recoverable costs, and supply, with a varying cost, made up 78%, the focus of this Study, for establishes tiers and differentiating price at each tier, will be supply cost.

Supply Tranches

Tranche 1

With supply cost as the focus of the study, supply sources are designated into tranches for pricing and analysis. The first tranche is made up of raw water purchased from the San Diego County Water Authority (CWA) and treated and delivered by Olivenhain Municipal Water District pursuant to a treatment agreement (OMWD). OMWD charges 80% of the current CWA treatment charge, making Tranche 1 the lowest cost water. The District attempts to base-load OMWD water and maximize deliveries making Tranche 1 a natural first tier of use.

Tranche 3

Tranche 3 is made up of water delivered pursuant to a purchase commitment agreement with CWA for desalinated water produced at the Carlsbad Desalination Plant. The take-or-pay contract is for 3,500 of the 48,000 acre feet of CWA's take-or-pay agreement with Poseidon Resources Ltd. The District pays full recovery for the commitment amount, and shares in favorable variable-cost-recovery pricing for the District's prorate share of amounts delivered in excess of the 48KAF take-or-pay amount. Annual deliveries are estimated at 87% of the plant's capacity, or 56KAF. Therefore, the District's share of the excess water is estimated at 583AF [3,500 ÷ 48,000 X (56,000 - 48,000)]. Full recovery for the first 3,500AF is almost twice the cost of imported water from CWA, but it provides the District with a drought-proof water supply, not subject to cutbacks from CWA or the Metropolitan Water District. If District water use remained low, and reliability and supply source diversification were not an issue, the District would not have sought this higher cost water, supporting the cost of desal water being assigned to the highest usage.

Tranche 2

The projected demand remaining after allocating OMWD to Tranche 1 and desal to Tranche 3, makes up Tranche 2 water from CWA.

	Projected 2018 Cost		Projected	Extended		
	per Unit		_ p	er AF	AF Demand	Cost
Tranche 3						
Desal	\$	5.51	\$	2,401	3,854	\$ 9,252,005
Tranche 2						
SDCWA		3.13		1,362	6,306	8,590,589
Tranche 1						
Treated by OMWD		2.96		1,291	3,840	4,958,892
TOTAL					14,000	\$22,801,486

Price per Acre Foot (AF) includes unbilled water

After distributing the above tranches to tiers by customer class in the following section, Tier Development, the resulting Tier 2 threshold was very low. An alternative tier structure was accepted by the Board, with Tier 1 capturing Tranche 1 supply, and Tier 2 set to the average maximum use per customer class. Desal water was spread among Tiers 2 and 3 resulting in the following revised tranches.

Supply Tran	ches
-------------	------

	2018 Cost		Projected	Extended	
	pe	r Unit	per AF	AF Demand	Cost
Tranche 3					
Desal - excess	\$	1.79	\$ 779	550	\$ 428,505
Desal - committed		6.13	2,671	1,494	3,989,803
Desal	\$	4.96	2,162	2,044	4,418,308
Tranche 2			•		
Desal - committed		6.13	2,671	1,810	4,833,697
SDCWA		3.13	1,362	6,306	8,590,589
SDCWA & Desal	\$	3.80	1,654	8,116	13,424,286
Tranche 1			!		
Treated by OMWD	\$	2.96	1,291	3,840	4,958,892
TOTAL			1	14,000	\$22,801,486

Price per Acre Foot (AF) includes unbilled water

Tranche Costing

Tuescho 1	2018 Projected per AF Charge							
<u>Tranche 1</u>	S	DCWA	Dis	count	_ (OMWD		
Supply	\$	833			\$	833		
Transportation		118				118		
Treatment		335	\$	(67)		268		
	\$	1,286			\$	1,219		
Projected Acre Feet o	of P	roductio	on			4,068		
Total Cost of Tranche	1				\$4	,958,892		
Projected Acre Feet o	f D	emand						
Production				4,068				
Unbilled Water at 5.6% (228)						3,840		
Supply Cost per Acre	Foc	ot Delive	ered		\$	1,291		

Tunnaha 2	Demand	Unbilled		Projected	Extended
<u>Tranche 2</u>	In AF	Water	Production	2018 Cost/AF	Cost
SDCWA Demand	6,306	374	6,680	\$ 1,286	\$ 8,590,480
Desal Demand	1,810	107	1,917	2,521	4,832,757
Total	8,116	481	8,597		\$13,423,237
Demand				÷	8,116
Cost per Acre Foot					\$ 1,654

Turnaha 2	Demand	Unbilled		Projected	Extended
<u>Tranche 3</u>	In AF	Water	Production	2018 Cost/AF	Cost
Desal Committed	1,494	89	1,583	\$ 2,521	\$ 3,990,743
Desal Excess	550	33	583	735	428,505
Total	2,044	122	2,166		\$ 4,419,248
Demand				÷	2,044
Cost per Acre Foot			5	57	\$ 2,162

Tier Development

In order to distribute supply within each tranche to tiers for each customer class, billing data from 2013 through 2016 was analyzed to find average minimum use, average use, and average maximum use within each customer class. The minimums, averages, and maximums were then entered into a Consumptive Use model containing every invoice billed in 2016 and adjusted to achieve demands similar to demands projected for 2018. The amounts captured within each tier are noted below. The objective is to determine what tier limit will capture the amount of supply within each tranche.

	2013 through 2016 (averages in units, use captured in acre feet)							
Meter	Average	Use	Average	Use	Average	Use		
size	Min Use	Captured	Use	Captured	Max Use	Captured		
< 1"	6	2,922	13	4,989	21	5,953		
1"	16	346	45	688	78	854		
1.5"	43	575	117	1,047	196	1,271		
2"	85	829	201	1,527	335	1,939		
> 2"	430	539	778	829	1,190	1,041		
TOTAL		5,211		9,080		11,058		

Multi-Family is currently Included in the above meter sizes

Since average minimum use captured an amount closest to the Tranche 1 supply of 3,840AF, iterations of potential Tier 1 limits starting with minimum use amounts were entered in the Consumptive Use Model, until the Tranche 1 supply amount was captured. The same procedure was performed with average use numbers to capture Tranche 2 supply with the results presented in the Table below.

Meter	Tier	r 1	Tie	Tier 3	
size	Limit	Use in AF	Limit	Use in AF	Use in AF
< 1"	4	2,023	14	3,147	1,506
1"	12	271	45	416	368
1.5"	32	457	118	592	511
2"	64	667	202	862	903
> 2"	324	422	768	389	467
AG		-		900	-
Construction					100
TOTAL		3,840		6,306	3,855

Multi-Family is currently Included in the above meter sizes

When these tranches were spread across customer usage to tiers, the result was a very low threshold for the expensive Tranche 3 water. To consider an alternative approach, average maximum use was entered into the Consumptive Use Model to establish the Tier 2 limit resulting in 1,800 of acre feet of desal supply shifting from Tranche 3 to Tranche 2. The resulting revised tiers and tranches are shown in the tables below.

Meter	Tie	1	Tie	Tier 3	
size	Limit	Use in AF	Limit	Use in AF	Use in AF
< 1"	4	2,023	21	3,930	723
1"	12	271	78	582	201
1.5"	32	457	196	814	289
2"	64	667	335	1,272	493
> 2"	324	422	1,190	618	238
AG		-		900	-
Construction					100
TOTAL		3,840		8,116	2,044

Multi-Family is currently Included in the above meter sizes

	2018 Cost			st	Projected	Extended
	рє	er Unit		per AF	AF Demand	Cost
Tranche 3						
Desal - excess	\$	1.79	\$	779	550	\$ 428,505
Desal - committed		6.13		2,671	1,494	3,989,803
Desal	\$	4.96		2,162	2,044	4,418,308
Tranche 2						
Desal - committed		6.13		2,671	1,810	4,833,697
SDCWA		3.13		1,362	6,306	8,590,589
SDCWA & Desal	\$	3.80		1,654	8,116	13,424,286
Tranche 1						
Treated by OMWD	\$	2.96		1,291	3,840	4,958,892
TOTAL			<u>.</u>		14,000	\$22,801,486

The District's Board considered the two tier structures resulting from analyses in this Study, compared to current tier breaks for meters less than 1" and consented to continue the Study with the Tier 2 limit set at maximum average use and desal spread between Tranches 2 and 3.

Price per Acre Foot (AF) includes unbilled water

3/4" Meter	Curr	ent	All Desa	l in Tier 3	Desal Tier 2 & 3 Split		
	Tier Limit	Total Rate	Tier Limit	Wholesale Cost	Tier Limit	Wholesale Cost	
Tier 1	5	\$ 3.08	4	\$ 2.96	4	\$ 2.96	
Tier 2	17	4.12	14	3.13	21	3.80	
Tier 3	36	5.33		5.51		4.96	
Tier 4		7.41					

Revenue Requirement

The total amount of costs necessary to be recovered from user charges is known as the revenue requirement. This includes the cost of water, operating costs, administrative costs, capital replacement, and targeted adjustments to reserve levels. The revenue requirement is determined from the budget and projections for years subsequent to the budget. The final Cost of Service and Rate Structure Study Report and the Rate Model will include the revenue requirement by fiscal years and calendar years. The ready-to-serve charge is effective for each fiscal year while commodity charges become effective for each calendar year. This file which documents the process includes only the budgeted fiscal year for illustrative purposes. The revenue requirement is detailed in the Cost Allocation Section as "Total Costs to Recover."

			Cost Alloc	ation				
	Projected		Ready-to	-Serve		Commodity		Fire
	2018	Offset	Meters	Bill	Tier1	Tier2	Tier3	Protection
Water Costs								
Projected AF demand	14,000				3,840	8,116	2,044	
Projected AF production	14,831							
OMWD	4,068				4,068			
SDCWA	6,680					6,680		
Desal - committed	3,500					1,917	1,583	
Desal - excess	583						583	
Cost per AF					\$ 1,219	\$ 1,286	\$ 2,521	
						\$ 2,521	\$ 735	
Water purchases					\$4,958,892	\$ 8,590,480	\$3,990,743	
						\$ 4,832,757	\$ 428,505	
Water cost	\$29,810,891	\$ -	\$ 7,009,514	\$ -	\$4,958,892	\$13,423,237	\$4,419,248	\$ -
Operating Expenses		•						
Pumping	566,000	350,000	-	_	29,630	137,505	38,065	10,800
Water Quality	173,000	-	-	_	42,575	98,333	32,092	-
Water Treatment	394,000	-	-	_	225,446	132,010	36,544	_
Tanks & Reservoirs	358,000	-	-	-	49,110	227,901	63,089	17,900
Transmission & Dist.	1,470,000	-	-	-	127,779	592,675	676,046	73,500
Services	198,000	-	198,000	_	_	_	-	-
Meters	678,000	161,000	327,160	189,840	-	-	-	_
Backflow Prevention	76,000	76,000	-	-	-	-	-	_
Customer Accounts	740,000	233,000	-	507,000	-	-	-	_
Equipment & Vehicles	317,000	-	253,599	-	17,391	36,037	9,973	_
Building & Grounds	324,000	-	259,200	-	17,775	36,832	10,193	-
Engineering	1,611,000	31,000	1,264,000	-	86,679	179,614	49,707	-
Safety & Reg. Affairs	280,000	-	224,000	-	15,361	31,830	8,809	-
Information Technology	976,000	-	780,800	-	53,543	110,952	30,705	-
G&A - Conservation	594,000	-	-	-	-	-	594,000	-
General&Admin - Other	2,405,000	96,000	1,847,200	-	126,672	262,487	72,641	-
Capital Replacement	2,265,700	1,553,000	285,541	-	65,595	304,346	28,609	28,609
Reserve Target Adjustmnt								
Total Costs to Recover	\$43,236,591	\$2,500,000	\$12,449,014	\$696,840	\$5,816,448	\$15,573,759	\$6,069,721	\$130,809
For allocation Equip&vehicles through		tion	18.370%	15.78%	12.23%	33.81%	19.81%	

Revenue Offsets

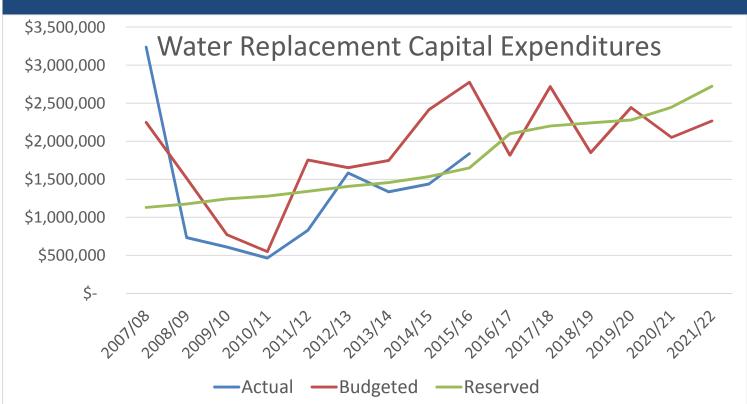
The District collects revenues and surcharges not directly related to resources required to provide service and water. These revenues are noted in the columns below and deducted from the Revenue Requirement in the Cost Allocation spreadsheet.

	Amount				Oth	ner				
	Before	Pumping		Late/Lock	Backflow	Engineerin	ng	Property	Investment	
EXPENSES	Offset	Charges	<u>Interest</u>	Charges	Fees	Fees	Misc	Tax	Earnings	Total
Pumping	\$ 566,000	\$350,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 350,000
Meters	678,000	-	-	155,000	6,000	-	-	-	-	161,000
Backflow Prevention	76,000	-	-	-	76,000	-	-	-	-	76,000
Customer Accounts	740,000	-	-	233,000	-	-	-	-	-	233,000
Engineering	1,611,000	-	-	-	-	31,000	-	-	-	31,000
General & Admin.	2,999,000	-	5,000	-	-	-	91,000	-	-	96,000
Capital Replacement	2,265,700		_		_			1,302,000	251,000	1,553,000
		\$350,000	\$5,000	\$388,000	\$82,000	\$31,000	\$91,000	\$1,302,000	\$251,000	\$2,500,000

The amounts in Meters allocated to Late/Lock Charges above and to billing on the Cost Allocation spreadsheet are based on time analysis within the meter department.

Capital Replacement

Budgeted capital replacement is volatile. Including each budget year in each rate setting year would cause the revenue requirement to fluctuate from year to year. The five years within the capital spending plan are averaged for recovery in each rate setting year.



Water Replace	Water Replacement Capital Expenditures											
Five Year Budgeted Average					<		\$ 2,265,700		>			
	2014/15		2015/16	2016/17	2017/18	2018/19	2019/20	2020/21	2021/22			
Actual	\$1,437,419	\$	1,836,866									
Budgeted	\$2,415,100	\$	2,775,180	\$ 1,815,800	\$ 2,718,600	\$ 1,851,000	\$ 2,443,200	\$2,050,000	\$2,265,700			
Reserved	\$1,534,757	\$	1,650,526	\$ 2,098,729	\$ 2,201,845	\$ 2,241,890	\$ 2,279,220	\$2,446,874	\$2,723,619			

The nature of replacements fluctuates from year to year. To smooth these fluctuations, each year's capital replacement is allocated to tiers based on book value of the components of the water system, and their nexus to peak demands. System costs associated with fire protection are allocated 5% based on the 5% requirement for system capacity.

				Commodity		Fire
Plant Assets	Total	Meters	Tier1	Tier2	Tier3	Protection
Pumping	\$ 7,364,983	\$ -	\$ 1,010,329	\$ 4,688,511	\$ 1,297,894	\$ 368,249
Water Treatment	95,357	-	13,769	63,899	17,689	-
Tanks & Reservoirs	54,313,776	-	7,450,764	34,575,878	9,571,445	2,715,689
Transmission & Distribution	50,658,198	-	4,403,464	20,424,372	23,297,452	2,532,910
Services	13,438,304	13,438,304	-	-	-	-
Meters	5,067,418	5,067,418	-	-	-	-
General Plant	8,987,362	8,987,362				
	\$139,925,398	\$27,493,084	\$12,878,326	\$59,752,660	\$34,184,480	\$5,616,848
Allocation Percent	100.00%	19.65%	9.20%	42.70%	24.43%	4.01%

Peaking Factors

Master Plan	Factor
Average Daily Demand	1.0
Maximum Day Demand	1.9
Maximum Hour Demand	3.0

Certain water system facilities are designed to meet maximum daily flows and some designed to meet maximum hourly flows. District peaking factors determined for the District's Master Plan are used to formulate allocation percentages along with demand per tier.

	Allocation					
	Total	Tier1	Tier2	Tier3		
Water Demand in Acre Feet	14,000	3,840	7,958	2,202		
Water Demand Percent	100.00%	27.43%	56.84%	15.73%		
Facilities designed to meet max day demand	S					
E.g., Storage, treatment, pumping						
Base = (1.0/1.9) x 100 =	52.63%	14.44%	29.91%	8.28%		
Max Day = (1.9 - 1.0)/1.9 x 100 =	47.37%		37.10%	10.27%		
		14.44%	67.01%	18.55%		
Facilities designed to meet max day demand	S					
E.g., Transmission and distribution						
Base = (1.0/3.0) x 100 =	33.33%	9.15%	18.94%	5.24%		
Max Day = (1.9 - 1.0)/3.0 x 100 =	30.00%	-	23.50%	6.50%		
Max Hour = (3.0 - 1.9)/3.0 x 100 =	36.67%			36.67%		
		9.15%	42.44%	48.41%		

Per VWD Master Plan: Maximum Day Demand Factor is 1.9 times Average Daily Demand Maximum Hourly Demand is 3 times Average Daily Demand

Distribution of Revenue Requirement

The first row of costs are referenced from the Cost Allocation spreadsheet and divided by billing units to establish rates.

Projected	Ready-I	to-S	Serve	Commodity							Fire
	Meters	_	Bill		Tier1	_	Tier2	_	Tier3	Р	rotection
2018 Costs to Recover	\$12,449,014	\$	696,840	\$	5,816,448	\$:	15,573,759	\$	6,069,721	\$	130,809
Billing Unit (BU)	Meter equiv (ME)		# of bills		100 cf		100 cf		100 cf	D	iameter "
Projected 2018 BUs	391,267		258,396		1,672,704		3,535,330		890,366		38,148
Unit Cost	\$ 31.82	\$	2.70	\$	3.48	\$	4.41	\$	6.82	\$	3.43
Wholesale passthrough	17.91		-		2.96		3.80		4.96		-
VWD portion amount	\$ 13.91	\$	2.70	\$	0.52	\$	0.61	\$	1.86	\$	3.43
VWD portion percent	43.7%		100.0%		14.8%		13.9%		27.2%		100.0%

Multiples are used to calculate meter equivalents - the base 3/4" meter being 1 meter equivalent with larger meters having more than 1 equivalent. An analysis of meter costs, and repair and maintenance costs was performed in order to determine the equivalent amounts. E.g., it takes 10 times more resources to replace, service, and maintain a 3" meter than it does for a 3/4" meter. For costs associated with billing, the effort is the same regardless of the meter size so only one unit of cost is applied to each account.

Ready-to-Serve Charge Ca	Meter	Projected 2018 Ready-to-S			erve	
Meter	Meter	Equivalent	Meter	Bill		
size_	Equivalent	Unit Cost	 Cost	Unit Cost		Total
5/8"	1.0	\$ 31.82	\$ 31.82	\$ 2.70	\$	34.52
3/4"	1.0	31.82	31.82	2.70		34.52
1"	1.5	31.82	47.73	2.70		50.43
1.5"	4.0	31.82	127.28	2.70		129.98
2"	6.5	31.82	206.83	2.70		209.53
3"	10.0	31.82	318.20	2.70		320.90
4"	15.0	31.82	477.30	2.70		480.00
6"	30.0	31.82	954.60	2.70		957.30
10"	70.0	31.82	2,227.40	2.70		2,230.10
multi	0.3	31.82	9.55			9.55

[&]quot;Multi" refers to costs associated with higher than average flows for meters serving multiple dwelling units, and is assessed on each additional dwelling unit.

		Units of Service								
		EV 2040								
	active Meters	FY 2018								
Meter	December	Projected	Meter Ed	quivalent	Annual					
Size	2016	Avg Meters	Per	Total	(X 12)					
< 1"	19,149	19,162	1.0	19,162	229,944					
1"	1,024	1,054	1.5	1,581	18,972					
1.5"	689	699	4.0	2,796	33,552					
2"	511	521	6.5	3,387	40,638					
3"	63	64	10.0	640	7,680					
4"	17	17	15.0	255	3,060					
6"	15	15	30.0	450	5,400					
10"	1	1	70.0	70	840					
Total	21,469	21,533		28,341	340,086					
addl unit	14,174	14,217	0.3	4,265	51,181					
•				32,606	391,267					
Fire lines	486									
inches	3,169	3,179								

Projection is based on historical trends and the assumed 0.3% annual growth.

Units of service for commodity within tiers are determined in acre feet in the Cost Allocation spreadsheet and converted to units (HCFs) in the Distribution spreadsheet.

				Rates		
Meter Size	RTS Charge	Commo Tier 1	dity Rates \$ 3.48			
5/8"	\$ 34.52	Tier 2	4.41			
3/4"	34.52	Tier 3	6.82			Certified agricultural customers that
1"	50.43					participate in SDCWA's TSAWR program
1.5"	129.98	Meter	Tier	Structure in I	Units	do not have access to diverse supplies
2"	209.53	Size	Tier 1	Tier 2	Tier 3	other than MWD water. Not subjecting
3"	320.90	<1"	1 - 4	5 - 21	22 & up	ag to the higher tier is consistent to SDCWA's program. Details will be
4"	480.00	1"	1 - 12	13 - 78	79 & up	addressed in the final report and
6"	957.30	1.5"	1 - 32	33 - 196	197 & up	Ordinance. Since OMWD supply is
10"	2,230.10	2"	1 - 64	65 - 335	336 & up	limited and Ag benefits by not having
multi	9.55	>2"	1 - 324	325 - 1190	1191 & up	the higher cost desal assigned to its
Fire Line pe	er	Certified .	Ag	1 and up		customer class, OMWD water is not
diameter"	3.43	Temporal	ry Constructi	on	1 and up	allocated to Ag.

DATE: MARCH 15, 2017

TO: BOARD OF DIRECTORS

SUBJECT: RESOLUTION CONCURRING IN NOMINATION TO THE EXECUTIVE

COMMITTEE OF THE ASSOCIATION OF CALIFORNIA WATER AGENCIES/JOINT POWERS INSURANCE AUTHORITY (ACWA/JPIA)

DISCUSSION:

San Bernardino Valley Water Conservation District is requesting Vallecitos Water District concur in the nomination of Melody McDonald to the Executive Committee of the ACWA/JPIA. Mrs. McDonald currently serves on the ACWA/JPIA Executive Committee, Personnel Committee, Chairs the Liability Program Subcommittee, served on the Building & Property Ad Hoc Committee, and was past chair of the Property & Workers Compensation Program Subcommittees.

In order for a nomination to be made, a resolution in support of the nomination is required from three agencies.

RECOMMENDATION:

Request Board direction.

OUR NAME IS OUR MISSION

San Bernardino Valley Water Conservation District

Established 1932

1630 West Redlands Boulevard, Suite A Redlands, CA 92373-8032 (909) 793-2503 Fax: (909) 793-0188 Email: info@sbvwcd.org www.sbvwcd.org

January 31, 2017

Hal Martin Vallecitos Water District 201 Vallecitos de Oro San Marcos, CA 92069-1453

Dear Hal Martin,

The Board of Directors of the San Bernardino Valley Water Conservation District has nominated its Vice-President, Melody A. McDonald, to continue in her position on the ACWA/JPIA Executive Committee. Enclosed is a certified copy of SBVWCD Resolution No. 542 nominating Mrs. McDonald for ACWA/JPIA Executive Committee.

Melody currently serves on the ACWA/JPIA Executive Committee, Personnel Committee, Chairs the Liability Program Subcommittee, served on the Building & Property Ad Hoc Committee, and was past chair of the Property & Workers Compensation Program Subcommittees. Melody has an institutional knowledge of all of JPIA's programs, their history, how coverage's evolved for the JPIA membership and has helped the organization grow to 188 Million in assets. Melody participates in training at various JPIA members facilities; she has personally visited and presented rate stabilization fund refund checks back to JPIA members totaling over 25 Million, since the inception of the fund. This year, JPIA has held nearly 400 training classes resulting in more than 7,700 employees receiving training. Melody believes the best claim is the one that never happened, and that there is a direct correlation between risk management, training, and minimizing losses. She pursues all her duties with a strong sense of commitment and dedication. Enclosed is her Statement of Qualifications.

The District respectfully requests your organization consider adopting a concurring resolution of nomination in support of Mrs. McDonald. Enclosed is a sample concurring resolution for your consideration in support of her nomination or it can be found at http://www.acwajpia.com/ElectionNews.aspx. Since time is of the essence, and that this will require Board action, please include this on your agenda for your next Board meeting. Please send a certified copy to:

ACWA/JPIA

Attention: Sylvia Robinson P.O. Box 619082 Roseville, CA 95661-9082 and

San Bernardino Valley Water Conservation District

Attention: Athena Monge 1630 W. Redlands Blvd. Ste "A"

Redlands, CA 92374

This resolution must be received by ACWA/JPIA no later than 4:30 pm Friday March 24, 2017.

Sincerely,

Daniel B. Cozad General Manager

BOARD OF DIRECTORS Division 1: Richard Corneille Division 2: David E. Raley Division 3: T. Milford Harrison Division 4: John Longville

Division 5: Melody McDonald

General Manager Daniel B. Cozad

RESOLUTION NO. 542

A RESOLUTION OF THE BOARD OF DIRECTORS OF THE SAN BERNARDINO VALLEY WATER CONSERVATION DISTRICT NOMINATING ITS ACWA/JPIA BOARD MEMBER TO THE EXECUTIVE COMMITTEE OF THE ASSOCIATION OF CALIFORNIA WATER AGENCIES JOINT POWERS INSURANCE AUTHORITY ("ACWA/JPIA")

WHEREAS, this District is a member district of the ACWA/JPIA that participates in all four of its Programs: Liability, Property, and Workers' Compensation; and Employee Benefits; and

WHEREAS, the Bylaws of the ACWA/JPIA provide that in order for a nomination to be made to ACWA/JPIA's Executive Committee, the member district must place into nomination its member of the ACWA/JPIA Board of Directors for such open position;

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the San Bernardino Valley Water Conservation District that its member of the ACWA/JPIA Board of Directors, Melody McDonald, be nominated as a candidate for the **Executive Committee** for the election to be held on May 8, 2017.

BE IT FURTHER RESOLVED that the ACWA/JPIA staff is hereby requested, upon receipt of the formal concurrence of five other member districts to effect such nomination.

BE IT FURTHER RESOLVED that the District Secretary is hereby directed to transmit a certified copy of this resolution to the ACWA/JPIA at P.O. Box 619082, Roseville, California 95661-9082, forthwith.

ADOPTED this 11th day of January, 2017.

President, Board of Directors



Melody.sbvwcd@gmail.com

Melody Henriques-McDonald

P.O. BOX 30197 SAN BERNARDINO, CA 92413

> (909) 793-2503 District (909) 499-5175 cell (909) 383-1122 fax

Like @ https://www.facebook.com/Melody4Water

Candidate for:

ACWA JPIA EXECUTIVE COMMITTEE

(Incumbent)



Melody & Board receiving, District of Distinction Award, the highest governance and best practices accreditation possible.

Left, Kathleen Tiegs, Special Districts Board Member & ACWA Vice-President presenting.

ASSOCIATIONS

Member, Board of Directors of the San Bernardino Valley Water Conservation District (Elected), Past President, & currently Vice-President, 1991 originally appointed, and first woman on the board

Member, Executive Committee ACWA/JPIA

Chair, JPIA Liability Program Committee

Director, ACWA/Joint Powers Insurance Authority

Voting Member, Association of the San Bernardino County Special Districts

Over the 25 + Years, Experience in the Water Industry includes:

Past Member, (CWA) California Women for Agriculture

Past Member, ACWA Water Management Committee

Past Member, ACWA State Legislative Committee

Chair & Vice-Chair, JPIA Property & Workers Compensation Programs

Member, Board of Directors ACWA, Region 9 Chair

Chair, Water Management Certification Subcommittee

Chair, California Water Quality Control Board, Santa Ana Region 8 Years of service, Gubernatorial Appointment

CURRENT EMPLOYMENT

Southwest Lift & Equipment, Inc. (Heavy Duty Vehicle Lifts) Broker/Associate, Century 21 Lois Lauer Realty

PROFESSIONAL ASSOCIATIONS & LICENSES

Redlands Association of Realtors California Real Estate Broker's License Arizona Real Estate Broker's License

ORGANIZATIONS AND SOCIETIES

Highland Chamber of Commerce San Bernardino Chamber of Commerce Immanuel Baptist Church Highland, CA BSF International

EDUCATION

San Gorgonio High School, 1976 Western Real Estate School, 1989 Graduate, Special Districts Board Management Institute, 1997

RESOLUTION NO.

RESOLUTION OF THE BOARD OF DIRECTORS OF THE VALLECITOS WATER DISTRICT CONCURRING IN NOMINATION TO THE EXECUTIVE COMMITTEE OF THE ASSOCIATION OF CALIFORNIA WATER AGENCIES JOINT POWERS INSURANCE AUTHORITY ("ACWA/JPIA")

WHEREAS, this District is a member District of the ACWA/JPIA; and

WHEREAS, the Bylaws of the ACWA/JPIA provide that in order for a nomination to be made to ACWA/JPIA's Executive Committee, three member Districts must concur with the nominating District; and

WHEREAS, another ACWA/JPIA member District, the San Bernardino Valley Water Conservation District, has requested that this District concur in its nomination of its member of the ACWA/JPIA Board of Directors to the Executive Committee of the ACWA/JPIA.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of the Vallecitos Water District that this District concurs with the nomination of Melody McDonald of the San Bernardino Valley Water Conservation District to the Executive Committee of the ACWA/JPIA.

BE IT FURTHER RESOLVED that the District Secretary is hereby directed to transmit a certified copy of this Resolution to the ACWA/JPIA at P.O. Box 619082, Roseville, California 95661-9082.

PASSED AND ADOPTED by the Board of Directors of the Vallecitos Water District at a regular meeting held on this 15th day of March, 2017, by the following roll call vote:

AYES: NOES: ABSENT: ABSTAIN:		
ATTEST:	Craig Elitharp, President Board of Directors Vallecitos Water District	
Glenn Pruim, Secretary Board of Directors Vallecitos Water District		



4th Annual

North County Economic Summit

Wednesday, April 12, 2017 7:30 am to 9:45 am *Networking begins at 7am

California State University San Marcos

University Student Union Ballroom 333 Twin Oaks Valley Road



Don't miss this jam-packed morning of insightful economic reports, video presentations and a panel discussion of the opportunities and challenges facing our regional business community.



The Big Picture

Presented by Mark Vitner, Managing Director & Senior Economist, Wells Fargo

Trends and Analysis of what is currently happening in the Nation, California & San Diego County – and what to expect.



2017 North County Prospects Report Presented by Josh Williams, President, BW Research Partnership

Overview of North County's dynamic industry clusters, it's evolving innovation economy, the connections between quality of life and the business community, and a special analysis on job quality, job volatility and the changing nature of employment.

Welcome Remarks by California State University San Marcos President Karen Haynes.

Special video presentation of "North County's World of Work" highlighting how the region's high schools are working with innovative businesses to prepare students for the jobs of tomorrow.

Launch of the recently produced Technology Study – a collaborative effort of San Diego Regional EDC, Innovate78 & San Diego North EDC.



HEADWATERS TOUR 2017FIELD TRIP (NEW)



Restored Cookhouse Meadow in California's El Dorado National Forest

Sixty percent of California's developed water supply originates high in the Sierra Nevada mountains. Our water supply is largely dependent on the health of our Sierra forests, which are suffering from ecosystem degradation, drought, wildfires and widespread tree mortality. Join us as we head into the foothills and the mountains to examine water issues that happen upstream but have dramatic impacts downstream and throughout the state.

This 2-day, 1-night tour travels through the Sierra Nevada foothills, into the mountains and around the Lake Tahoe Basin to learn about upper watersheds and what role they play in water supply and quality. We will discuss meadow restoration, forest management and tree mortality, climate change, wildfire impacts and water quality. We will visit a meadow restoration site, Lake Tahoe, El Dorado National Forest, and the Yuba and American rivers.

74 Item 4.1