I hereby certify that the following Agenda was posted at least 72 hours prior to the time of the Board Meeting so noticed below, at the usual agenda posting location of the South Orange County Wastewater Authority [SOCWA] and at <a href="https://www.socwa.com">www.socwa.com</a>.

Betty Burnett, General Manager SOCWA and the Board of Directors thereof

#### **AGENDA**

Regular Meeting of The
South Orange County Wastewater Authority
Board of Directors

April 4, 2019 8:30 a.m.

THE BOARD OF DIRECTORS MEETING ROOM IS LOCATED AT 34156 DEL OBISPO STREET, DANA POINT, CA. THE ROOM IS WHEELCHAIR ACCESSIBLE. IF YOU REQUIRE ANY SPECIAL DISABILITY RELATED ACCOMMODATIONS (I.E. ACCESS TO AN AMPLIFIED SOUND SYSTEM, ETC.), PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S SECRETARY'S OFFICE AT 949-234-5421 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING. THIS AGENDA CAN BE OBTAINED IN ALTERNATE FORMAT UPON WRITTEN REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SECRETARY AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING.

AGENDA ATTACHMENTS AND OTHER WRITINGS THAT ARE DISCLOSABLE PUBLIC RECORDS DISTRIBUTED TO ALL, OR A MAJORITY OF, THE MEMBERS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY BOARD OF DIRECTORS IN CONNECTION WITH A MATTER SUBJECT TO DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE BOARD OF DIRECTORS ARE AVAILABLE FOR PUBLIC INSPECTION IN THE AUTHORITY OFFICE, 34156 DEL OBISPO STREET, DANA POINT, CA ("AUTHORITY OFFICE"). IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE BOARD OF DIRECTORS LESS THAN SEVENTY-TWO (72) HOURS PRIOR TO THE MEETING, THEY WILL BE AVAILABLE IN THE RECEPTION AREA OF THE AUTHORITY OFFICE AT THE SAME TIME AS THEY ARE DISTRIBUTED TO THE BOARD OF DIRECTORS, EXCEPT THAT, IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IN THE BOARD OF DIRECTORS MEETING ROOM.

- 1. CALL MEETING TO ORDER
- 2. PLEDGE OF ALLEGIANCE
- 3. ORAL COMMUNICATIONS
  - A. Members of the public may address the board regarding an item on the agenda or may reserve this opportunity during the meeting at the time item is discussed by the board. There will be a three-minute limit for public comments.

#### 4. CONSENT CALENDAR

A. Minutes of Board of Directors Meeting(s)

Board of Directors Meeting March 7, 2019 ......1

ACTION The Board of Directors will be requested to approve subject Minutes.

#### **AGENDA**

#### South Orange County Wastewater Authority Board of Directors Meeting April 4, 2019

В.	Minutes of Finance Committee Meeting(s)			
	<ul><li>2) Finance</li><li>3) Finance</li></ul>	Committee Meeting November 16, 2018	13 16	
	ACTION	The Board of Directors will be requested to receive and file subject Minutes.		
C.	Financial M	atters		
	1) Monthly	Financials Report for February 2019	21	
	b) School Cap	amary of Disbursements for February 2019 (Exhibit A)edule of Funds Available for Reinvestment (Exhibit B)al Agency Investment Fund (LAIF) Performance Reportedule of Cash and Investments (Exhibit C)	23 24 25	
	2) Budget	vs. Actual Expenses:		
	b) O&N c) Res d) Con	M & Environmental Safety Costs Summary (Exhibit E-1)	30 35 36	
	ACTION	Finance Committee recommends to the Board of Directors to ratify the February 2019 disbursements for the period from February 1, 2019, through February 28, 2019, totaling \$1,975,071, and receive and file the February 2019 Financial Reports as submitted.		
D.	Operational	Reports		
	2) Ocea 3) Bead 4) Recy	thly Operations Report – February 2019 an Outfall Discharges ch/Ocean Monitoring Report voled Water Report reatment Report	50 51 74	
	ACTION	The Board of Directors will be requested to receive and file the February 2019 Operations Report.		

#### **AGENDA**

#### South Orange County Wastewater Authority Board of Directors Meeting April 4, 2019

	E.	. Capital Improvement Program		
		Status Report	i(s)82	
		ACTION	The Board of Directors will be requested to receive and file subject reports.	
	F.	Minutes of En	gineering Committee Meeting(s)	
		1) Engineerii	ng Committee Meeting February 14, 201998	
		ACTION	The Board of Directors will be requested to receive and file subject Minutes.	
5.	<u>EN</u>	GINEERING M	MATTERS	
	A.	Project Comm	nittee No. 2	
		,	ion Contract – J.B. Latham Treatment Plant Package "B" ent Project103	
		ACTION	The Project Committee No. 2 Board of Directors will be requested to approve award of construction contract to Olsson Construction at a price not to exceed \$17,325,000.	
6.	<u>GE</u>	NERAL MANA	GER'S REPORTS	
	A.	Operational (C	D&M) Cost Distribution Report112	
		ACTION	The Finance Committee recommends that the Board of Directors receive and file the March 20, 2019, Operational Cost Distribution Analysis prepared by Carollo Engineers. Staff is directed to proceed to include the report recommendations in the FY 2019-20 Draft Budget preparations.	
	В.	Project Comm	nittee No. 5	
		1) Updated	Modeling Work for the San Juan Creek Ocean Outfall (SJCOO) 180	
		ACTION	Staff recommends that the Project Committee No. 5 Board of Directors approve the additional modeling work for the San Juan Creek Ocean Outfall in the amount of \$17,000.	
	C.	Project Comm	nittee No. 5 & 24	
		1) SB332: He	ertzberg Bill on Prohibition of Ocean Dischargers182	
		ACTION	Information item.	

#### **AGENDA**

## South Orange County Wastewater Authority Board of Directors Meeting April 4, 2019

D.	. <u>General Manager's Status Report</u> 18		
	ACTION	Information item.	
E.	Monthly Prog	ress Report on State Audit Recommendations	. 196
	ACTION	Information item.	
<u>CLOSED SESSION</u>			
Closed Session will be conducted for the following matter:			

### OTHER MATTERS

Case Number RIC 1721240.

7.

A. Open discussion or items received too late to be agendized.

Note: Determine the need to take action on the following item(s) introduced by the General Manager which arose subsequent to the agenda being posted.

Existing Litigation per paragraph (1) of Subdivision (d) of Government Code Section 54956.9, Case of SOCWA et al. v. Moulton Niguel Water District

[Adoption of this action requires a two-thirds vote of the Board, or if less than two-this are present an unanimous vote.]

#### <u>ADJOURNMENT</u>

THE NEXT REGULAR SOCWA BOARD MEETING WILL HELD ON May 9, 2019 at 8:30 a.m.

## MINUTES OF REGULAR MEETING OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

#### **Board of Directors**

#### March 7, 2019

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held on March 7, 2019, at 8:30 a.m. at the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Board of Directors were present:

MIKE DUNBAR, Emerald Bay Service District Director SCOTT GOLDMAN, El Toro Water District Director

STEPHAN DOPUDJA, Trabuco Canyon Water District Vice Chairman

JOONE LOPEZ, Moulton Niguel Water District

DOUG REINHART, Irvine Ranch Water District

TONI ISEMAN, City of Laguna Beach

DAN FERONS, Santa Margarita Water District

Director

Chairman

RICK SHINTAKU, South Coast Water District

RAY MILLER, City of San Juan Capistrano

Alternate Director

Alternate Director

DAVE REBENSDORF, City of San Clemente Director

#### Staff present:

BETTY BURNETT General Manager/Secretary

GREG MOSER Procopio Law Firm
BRIAN PECK Director of Engineering

AMBER BAYLOR Director of Environmental Compliance

JIM BURROR Director of Operations
MARY CAREY Finance Controller

DINA ASH Human Resource Administrator

JEANETTE CONTINOLA Contracts/Procurement Administrator

KONSTANTIN SHILKOV Senior Accountant

NAYDN KIM Accountant

DANITA HIRSH Assistant to the General Manager

RONI YOUNG Associate Engineer

ANNA SUTHERLAND Accounts Payable/Payroll Accountant TERI NOSON Clerk of the Board/Assistant Secretary

#### Also present:

DENNIS CAFFERTY Trabuco Canyon Water District

KATHRYN FRESHLEY El Toro Water District

ROBB GRANTHAM Santa Margarita Water District

STEVE GREYSHOCK GREYCOMM
JEREMY JUNGREIS Rutan & Tucker

#### 1. Call Meeting to Order

Chairman Ferons called the meeting to order at 8:31 a.m. and welcomed everyone present.

#### 2. Pledge of Allegiance

Director Shintaku led the Pledge of Allegiance to the Flag of the United States of America.

#### 3. Oral Comments

Chairman Ferons asked if members of the public desired to address the Board, or desired to reserve addressing the Board during the meeting regarding any item on the Agenda. No comments were received.

#### **ACTION TAKEN**

No action required.

#### 4. Consent Calendar

Chairman Ferons referenced the items under the Consent Calendar and asked if there were any questions or comments.

Director Lopez requested to pull item 4.B.2. <u>Board Directed Work Not Included in FY2018/19 Budget Adjustment Request,</u> and item 4.E.1. <u>Project Committee No. 15, Change Order to SS Mechanical Construction Contract.</u>

Director Dunbar requested to pull item 4.D. Capital Improvement Program.

#### **ACTION TAKEN**

Motion was made by Director Miller and seconded by Director Rebensdorf to approve the remaining items under the consent calendar.

Motion carried:	Aye 10; Nay 0; Abstain 0;	Absent 0
	Director Dunbar	Aye
	Director Goldman	Aye
	Vice Chairman Dopudja	Aye
	Director Lopez	Aye
	Director Reinhart	Aye
	Director Iseman	Aye
	Chairman Ferons	Aye
	Director Shintaku	Aye
	Director Miller	Aye
	Director Rebensdorf	Aye

Aye

#### 4.B.2. Board Directed Work Not Included in FY2018/19 Budget Adjustment Request

Director Lopez noted that MNWD would be registering a No vote for this item, and reported that MNWD did not register an Aye vote for the Administration Budget.

#### **ACTION TAKEN**

Motion was made by Director Dopudja and seconded by Director Goldman to approve a Budget Increase of \$92,391 to the Administration Budget to fund the actuarial services and the Cost Distribution Study accomplished in FY2018/19 Budget year as Board-approved work.

Motion carried:	Aye 9; Nay 1; Abstain 0; Absent 0		
	Director Dunbar	Aye	
	Director Goldman	Aye	
	Vice Chairman Dopudja	Aye	
	Director Lopez	Nay	
	Director Reinhart	Aye	
	Director Iseman	Aye	
	Chairman Ferons	Aye	
	Director Shintaku	Aye	
	Director Miller	Aye	

Director Rebensdorf

#### 4.D. <u>Capital Improvement Program</u>

Director Dunbar referenced the Capital Improvement Projects Report, page 76, item 3514-000 - CTP Facility Improvements Upgrade Design Project (2016). Director Dunbar stated that he understood, from staff, that the project went out to bid, and inquired directly to Director Lopez whether MNWD was going to provide payment for the project when the next round of invoices were provided on April 1, 2019. Director Lopez noted that the item was not on the agenda for discussion.

Director Iseman requested Mr. Moser's opinion on the request. Mr. Moser stated that the item could be discussed, but MNWD was not required to provide discussion on the item.

#### **ACTION TAKEN**

Motion was made by Director Dunbar and seconded by Director Goldman to receive and file item 4.D. <u>Capital Improvement Program</u>.

Motion carried:	Aye 10; Nay 0; Abstain 0; A	Absent 0
	Director Dunbar	Aye
	Director Goldman	Aye
	Vice Chairman Dopudja	Aye
	Director Lopez	Aye
	Director Reinhart	Aye
	Director Iseman	Aye
	Chairman Ferons	Aye
	Director Shintaku	Aye

Director Miller Aye
Director Rebensdorf Aye

#### 4.E.1. Project Committee No. 15 - Change Order to SS Mechanical Construction Contract

Director Lopez reported that MNWD would register an Abstention vote for the submitted Change Order to SS Mechanical. Director Lopez stated that the Change Order was a cost to SCWD Advanced Water Treatment (AWT) facility and MNWD did not feel the need to weigh in.

#### **ACTION TAKEN**

Motion was made by Director Shintaku and seconded by Director Dunbar to approve Change Order 1 to the construction contract with SS Mechanical Construction for the Coastal Treatment Plant Tertiary System Upgrades Project.

Motion carried: Aye 3; Nay 0; Abstain 1; Absent 0

Director Dunbar Aye
Director Lopez Abstain
Director Iseman Aye
Director Shintaku Aye

#### 5. Engineering Matters

#### A. Project Committee No. 17

1) Award of Engineering Services – Regional Treatment Plant Motor Control Center Upgrades Final Design

#### **ACTION TAKEN**

Motion was made by Director Shintaku and seconded by Director Goldman to approve the award of the engineering services contract to Lee & Ro at a fee not to exceed \$326,078.

Motion carried: Aye 5; Nay 0; Abstain 0; Absent 0.

Director Dunbar Aye
Director Goldman Aye
Director Lopez Aye
Director Iseman Aye
Director Shintaku Aye

#### 6. General Manager's Reports

#### A. Additional Cash Distribution by Project Committee and Member Agency

#### Methodology

Director Shintaku noted how fortunate the member agencies were to have the outstanding service SOCWA staff provides, and thanked the SOCWA staff for their well-appreciated service.

#### **ACTION TAKEN**

Motion was made by Director Dunbar and seconded by Director Goldman to approve the *Additional Cash Distribution by Project Committee and Member Agency Methodology Report* with the Amendment as follows:

- 1) Remove the Laguna Niguel heat transfer for analysis and discussion.
- 2) Additional Language to the <u>Future Practice</u> listing on page 112 of the Agenda: "3. An annual review of additional cash distribution as part of the Use Audit".

Motion carried:	Aye 10; Nay 0; Abstain 0; Absent 0		
	Director Dunbar	Aye	
	Director Goldman	Aye	
	Vice Chairman Dopudja	Aye	
	Director Lopez	Aye	
	Director Reinhart	Aye	
	Director Iseman	Aye	
	Chairman Ferons	Aye	
	Director Shintaku	Aye	
	Director Miller	Aye	
	Director Rebensdorf	Aye	

#### B. Project Committee No. 15 Litigation Update Report

Ms. Burnett reported that the Court released information was distributed to member agencies, and there would be further litigation phases to clarify both the current decision from the court as well as the potential for a Second Phase regarding the process of billing (budgets, budget approval, billing). There was an ongoing discussion among the agencies to get together to talk further.

Chairman Ferons inquired as to the when the final draft would be released. Mr. Moser reported there was uncertainty from the parties as to what the Judge did release, and whether to go back to the Judge to ask for more clarity in terms of the ruling he provided. Mr. Moser stated the Judge did not release any dates at this time.

Director Dunbar noted the professionalism and work ethic of SOCWA staff during the litigation process as well as noted the difficulty of the past two years, how staff has been equally fair to both parties and thanked them for their service. Director Dunbar stated it has not been easy for SOCWA staff.

#### **ACTION TAKEN**

No action taken, information and discussion only.

#### C. General Manager's Status Report

Director Iseman requested a summary on the most recent storm event. Mr. Burror provided an overview of the February 14, 2019, storm event and referenced the provided pictures on pages 116-119.

#### **ACTION TAKEN**

No action taken, Information item only.

#### D. Legislation Update

Mr. Moser provided a brief overview of upcoming Senate Bills, and Ms. Baylor provided a summary of the proposed SB332 (Hertzberg) – *Mandatory Ocean Outfall Discharge Reductions*. An open discussion ensued.

#### **ACTION TAKEN**

No action taken, information and discussion only.

#### E. Monthly Progress Report on State Audit Recommendations

#### **ACTION TAKEN**

There being no objection from the Board, the Chairman directed the *Monthly Progress Report on State Audit Recommendations* – State Audit Response Schedule to be received and filed.

#### 7. Closed Session

There being no objection from the Board, the Chairman noted a Closed Session would not be conducted for the following matter:

Existing Litigation per paragraph (1) of Subdivision (d) of Government Code Section 54956.9, Case of SOCWA et al. v. Moulton Niguel Water District Case Number RIC 1721240.

#### 8. Report Out of Closed Session

None.

#### Other Matters

Chairman Ferons asked if there were any more questions or comments from the Board. There were none.

Chairman Ferons requested that staff schedule a Special Board of Directors Meeting, calendar permitting, prior to the April 4, 2019, Board meeting with a Closes Session item for *Evaluation of the General Manager*.

#### **Adjournment**

There being no further business, Chairman Ferons adjourned the meeting at 9:42 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Regular Meeting of the South Orange County Wastewater Authority Board of Directors on March 7, 2019, and approved by the Board of Directors of the South Orange County Wastewater Authority.

Betty C. Burnett, General Manager/Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

### SUMMARY OF BOARD ACTIONS SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

#### **February 7, 2019**

DESCRIPTION	MOTION MADE BY	<u>ACTION</u>
Consent Calendar	Miller	Approved
4.B.2. Board Directed Work Not Included in FY2018/19 Budget Adjustment Request	Dopudja	Approved
4.D. Capital Improvement Program	Dunbar	Receive and File
4.E.1. Project Committee No. 15, Change Order to SS Mechanical Construction Contract	Shintaku	Approved
Award of Engineering Services – Regional Treatment Plant Motor Control Center Upgrades Final Design	Shintaku	Approved
Additional Cash Distribution by Project Committee and Member Agency Methodology	Dunbar	Approved
Monthly Progress Report on State Audit Recommendations	Board Direction	Receive and File

## MINUTES OF SPECIAL MEETING OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

### Finance Committee November 16, 2018

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee Meeting was held on November 16, 2018, at 10:30 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Finance Committee were present:

DENNIS ERDMAN South Coast Water District

ROBB GRANTHAM Santa Margarita Water District (arrived 10:40 am)

RAY MILLER City of San Juan Capistrano

FRED ADJARIAN El Toro Water District

MATT COLLINGS Moulton Niguel Water District (exited 11:25 am)

Absent:

TONI ISEMAN City of Laguna Beach

Staff Present:

BETTY BURNETT General Manager
MARY CAREY Finance Controller
JIM BURROR Director of Operations

AMBER BAYLOR Director of Environmental Compliance

KONSTANTIN SHILOV Sr. Accountant NADYN KIM Accountant

DANITA HIRSH Administrative Assistant

Also Present:

GREG MOSER Procopio

MARY BETH REDDING Bartel Associates LLC (via teleconference)

LUIS MURILLO Nyhart

DENNIS CAFFERTY EI Toro Water District
NEELY SHAHBAKTI EI Toro Water District
PAM ARENDS-KING South Coast Water District

#### 1. Call Meeting to Order

Chairperson Erdman called the meeting to order at 10:30 a.m.

#### 2. <u>Pledge of Allegiance</u> – Director Fred Adjarian

#### 3. Public Comments

None

Chairperson Erdman stated that there would be a change to the order of the agenda by addressing item 11 first in courtesy of the Actuarial consultants who were present to report on the GASB 75 and GASB 68.

Finance Committee Meeting Minutes November 16, 2018 Page 2 of 4

### 11. Government Accounting Standards Board Statement GASB 75 and GASB 68 Reporting for FY2017-18 Financial Statements Audit

Ms. Carey provided a brief introduction of Luis Murillo of Nyhart and Mary Beth Redding of Bartel Associates who participated via teleconference.

Mr. Murillo gave a PowerPoint presentation on the GASB 75. An open discussion ensued.

Ms. Redding gave a PowerPoint presentation on the GASB 68 and how the changes would affect the Liability Pension. An open discussion ensued.

Director Collings suggested tabling the agenda item until the next year's (FY19-20) budget.

Ms. Arends-King, CFO for South Coast Water District, requested that a copy of the PERS evaluation report be distributed to the Finance Officers.

Ms. Carey would be distributing the report to SOCWA's Finance Officers via email.

Chairperson Erdman convened the meeting at 11:20 a.m. for a brief recess. The meeting reconvened at 11:31 a.m.

Director Collings exited the Finance Committee meeting at 11:25 a.m. for the remainder of the meeting. No Action was taken.

#### 4. Approval of Minutes

Chairperson Erdman noted a correction to be made on the August 10, 2018 Minutes, under item 6, Financial Matters – Month of May 2018 Financials, that Director Miller was missing from the record as voting "Aye" on the approval of the item and asked that the Minutes be corrected.

#### **ACTION TAKEN**

Motion was made by Director Grantham and seconded by Director Miller to approve the Finance Committee Minutes for September 19, 2018, August 29, 2018, and June 27, 2018, as submitted, and Minutes for August 10, 2018, with correction as noted.

Motion carried: Aye 4, Nay 0, Abstained 0, Absent 2

Director Erdman Aye
Director Iseman Absent
Director Miller Aye
Director Grantham Aye
Director Collings Absent
Director Adjarian Aye

Chairperson Erdman commented on the importance of reviewing the Minutes making sure they were correct for the record. He also stated, over the last two years since he had been on the Finance Committee, there had been minor omissions similar to the one just discussed. The Minutes are sent out in advance and that it is both staff and the Directors responsibility to assure the Minutes are as accurate as possible. He stated, there will be times when documents will show up in places where accuracy will be very important as in the situation in Riverside.

This was an Information Item.

Finance Committee Meeting Minutes November 16, 2018 Page 3 of 4

#### 5. Monthly Financial Report for June 2018

Ms. Carey stated, only the Cash Disbursements needed to be ratified.

#### **ACTION TAKEN**

Motion was made by Director Grantham and seconded by Director Miller that the Finance Committee recommends the Board of Directors ratify the Cash Disbursements for the month of June 2018.

Motion carried: Aye 4, Nay 0, Abstained 0, Absent 2

Director Erdman
Director Iseman
Director Miller
Director Grantham
Director Collings
Director Adjarian
Aye
Aye
Aye
Absent
Aye
Absent

Ms. Carey stated, the only thing that was done separately by month was the Cash Disbursements, because the Committee had to ratified Disbursements. The remaining Financial documents were informational only. All of the Financials were current year to date as of September 30 which was assessed for Q1 of the fiscal year. Staff recommended the Finance Committee ratify the Disbursements for July, August and September 2018.

Director Erdman stated, unless the Committee objects, he would entertain a motion as a block for approval. He continued that the Committee would address agenda item 9 for the Quarterly reporting and then return to agenda items 6, 7, and 8 to take a motion to approve as a block.

- 6. Monthly Financial Report for July 2018
- 7. Monthly Financial Report for August 2018
- 8. Monthly Financial Report for September 2018

#### **ACTION TAKEN**

Motion was made by Director Adjarian and seconded by Director Grantham that the Finance Committee recommends to the Board of Directors to ratify agenda items 6, 7, and 8, the Summary of Disbursements for the period from July 1 through July 31, August 1 through August 31, and September 1 through 30, 2018.

Motion carried: Aye 4, Nay 0, Abstained 0, Absent 1

Director Erdman Aye
Director Iseman Absent
Director Miller Aye
Director Grantham Aye
Director Collings Absent
Director Adjarian Aye

#### 9. Quarterly (Q1) Financial Reports July 1, 2018 thru September 30, 2018

Ms. Burnett provided the Committee with a high-level overview of the Capital Project Summary July 1 through September 2018. She stated, the beginning part of the year has been slower on the capital spending side which is not unusual. There are 2 large projects for PC-15 Capital, and Page 57 shows the capital projects broken out by Project Committee for the year.

Finance Committee Meeting Minutes November 16, 2018 Page 4 of 4

Director Grantham requested a joint meeting of the Finance and Engineering Committees to discuss capital project expenditures.

Ms. Carey went over the budget vs. actual cost expenditures on page 57 of the packet. Chairperson Erdman asked that before approving the monthly financial statements for July, August, and September 2018, whether Jim Burror, Director of Operations would provide comments on a few of the notes that were included in the reports.

Mr. Burror provided the following comments:

- The new engines continue to impact our budgets. We are tracking time spent on CIP projects for labor – mostly engine support. Ferric and other operational costs increased more than expected in the project study phases, and we used this information for the FY18-19 budget.
- 2) Delays in completing the RTP engine project increased costs associated with the purchase of power and natural gas.
- 3) New employee costs Training costs for new employees is as high as requested during the budget process. We will be talking about this some more during the upcoming budget process. We see increased participation in industry activities to gain knowledge by the new employees. Mr. Burror recommends increasing both training and conference budgets to accommodate the training process for the large group of new employees.
- 4) CIP Construction activities have been impacting budgets for items like the use of potable water at CTP. Activities for controlling dust can double our O&M budgets quickly. We will ask Engineering what they anticipate for the upcoming FY for both O&M employee and material resources.
- 5) Opportunity project costs are hard to anticipate during CIP shutdowns. We will try to do more review of projects during design related to assumptions for staff support, equipment operation expectation, and changes to plant operations.
- 6) We increased coordination with O&M, Engineering, and other agency projects due to conflicts all around. This can impact staff workload and O&M backlogs; we will continue to try to balance these competing demands for staff time.

Chairperson thanked Mr. Burror for providing insight and sharing his story with the Committee.

This was an information item.

### 10. <u>Cash Roll Forward Fiscal Years Summary June 30, 2016 through June 30, 2018, ending September 30, 2018</u>

Ms. Carey stated this is an information item.

#### 12. Adjournment

There being no further business, Chairman Erdman adjourned the meeting at 12:20 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Finance Committee of November 16, 2018 and approved by the Finance Committee and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

## MINUTES OF SPECIAL MEETING OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

### Finance Committee November 30, 2018

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee Meeting was held on November 30, 2018, at 8:30 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Finance Committee were present:

DENNIS ERDMAN South Coast Water District FRED ADJARIAN EI Toro Water District

MATT COLLINGS Moulton Niguel Water District

TONI ISEMAN City of Laguna Beach

RAY MILLER City of San Juan Capistrano

Absent:

ROBB GRANTHAM Santa Margarita Water District

Staff Present:

BETTY BURNETT General Manager
MARY CAREY Finance Controller
JIM BURROR Director of Operations

AMBER BAYLOR Director of Environmental Compliance

KONSTANTIN SHILOV Sr. Accountant
NADYN KIM Accountant
ANNA SUTHERLAND Accounts Payable

DANITA HIRSH Administrative Assistant

Also Present:

GREG MOSER Procopio
KEN PUN The Pun Group
DENNIS CAFFERTY EI Toro Water District
NEELY SHAHBAKTI EI Toro Water District

ERICA CASTILLO Santa Margarita Water District
TREVOR AGRELIUS Moulton Niguel Water District

#### 1. Call Meeting to Order

Chairperson Erdman called the meeting to order at 8:35 a.m.

#### 2. Pledge of Allegiance – Jim Burror, Director of Operations

#### 3. Public Comments – None

Chairperson Erdman asked the Director of Operations to provide a report on the plant impacts of the weather storm conditions.

Jim Burror, reported the treatment plants held up well during the storms. He stated, there were a few issues that came up, but overall, the treatment plants did well and that everything is back to normal at this time.

Finance Committee Meeting Minutes November 30, 2018 Page 2 of 3

Director Iseman asked that we agendize the protocol on weather conditions and the effects it has on the treatment plants. Ms. Burnett responded that we would put the item on the agenda for future discussion.

#### 4. Monthly Financial Report for October 2018

#### **ACTION TAKEN**

Motion was made by Director Adjarian and seconded by Director Miller recommending the Board of Directors ratify the Summary of Disbursements for October 2018 totaling \$2,317, 205.

Motion carried: Aye 5, Nay 0, Abstained 0, Absent 1

Director Erdman Aye
Director Iseman Aye
Director Miller Aye
Director Grantham Absent
Director Collings Aye
Director Adjarian Aye

Ms. Burnett stated that the Committee would also need to receive and file the report which would be going to the Board of Directors for approval.

Director Adjarian asked if there were any specific areas of the Financials that the Finance Controller would like to highlight.

Ms. Carey noted that SOCWA's typical projection in the 1<sup>st</sup> quarter should be 1/3<sup>rd</sup> spent of the budget and that we were currently below the mark. An open discussion ensued.

Ms. Baylor, Director of Environment Compliance, drew the Committee's attention to Exhibit E-4 regarding IT expenses on page 19 stating, the overage of "Cloud Subscriptions" was due to recommendations made by Homeland Security in regard to purchasing a Security Management System to prevent potential hacking.

#### **ACTION TAKEN**

Motion was made by Director Adjarian and seconded by Director Miller to receive and file the Financial Reports as submitted.

Motion carried: Aye 5, Nay 0, Abstained 0, Absent 1

Director Erdman Aye
Director Iseman Aye
Director Miller Aye
Director Grantham Absent
Director Collings Aye
Director Adjarian Aye

Finance Committee Meeting Minutes November 30, 2018 Page 3 of 3

### 5. <u>Pun Group Presentation of FY Ending June 30, 2018, SOCWA Audited Financial</u> Statements

Mr. Ken Pun of The Pun Group presented SOCWA's draft Audited Financial Statements to the Committee noting that fiscal year 17/18 audit is near completion with a few items pending; including some classification in the income statement with a few expenses that may be moved back to the operating expense. An open discussion ensued.

Ms. Burnett noted that the Pun Group would be making some changes to a few of the pages in the Financial Statements and would have those changes completed before presenting to the Board of Directors.

There was a consensus amongst the Finance Committee members to proceed with sending the draft Audited Financial Statements on to the Board of Directors meeting on December 2, 2018, for review and approval. The Pun Group would make the necessary changes for the final document and submit to SOCWA early in the following week.

#### 6. Update on Open Financial Items

Ms. Burnett informed the Finance Committee on the list of documents that SOCWA is required to have completed for closing the fiscal year. These included the Use Audit and the Financial Statements Audit. Ms. Burnett stated that the Finance Controller made some adjustments to the Use Audit tying the numbers to the Financial Statements as requested by Moulton Niguel Water District. She asked Ms. Carey to provide a high-level overview of the changes that were made to tie the Use Audit to the Financial Statements. Ms. Cary reviewed those items. No action was taken.

#### 7. Adjournment

There being no further business, Alternate Chairman Grantham adjourned the meeting at 10:24 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Finance Committee of November 30, 2018 and approved by the Finance Committee and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

Betty Burnett, General Manager/Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

## MINUTES OF SPECIAL MEETING OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

### Finance Committee January 28, 2019

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee Meeting was held on January 28, 2019, at 8:30 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Finance Committee were present:

DENNIS ERDMAN South Coast Water District
ROBB GRANTHAM Santa Margarita Water District
RAY MILLER City of San Juan Capistrano

KATHRYN FRESHLEY El Toro Water District

MATT COLLINGS Moulton Niguel Water District

Absent:

TONI ISEMAN City of Laguna Beach

Staff Present:

BETTY BURNETT General Manager
MARY CAREY Finance Controller
JIM BURROR Director of Operations

AMBER BAYLOR Director of Environmental Compliance

KONSTANTIN SHILOV Sr. Accountant
NADYN KIM Accountant
ANNA SUTHERLAND Accounts Payable

DANITA HIRSH Administrative Assistant

Also Present:

GREG MOSER Procopio

DENNIS CAFFERTY
NEELY SHAHBAKTI
PAM ARENDS-KING
GAVIN CURRAN
El Toro Water District
El Toro Water District
South Coast Water District
City of Laguna Beach

ERICA CASTILLO Santa Margarita Water District TREVOR AGRELIUS Moulton Niguel Water District

#### 1. Call Meeting to Order

Chairperson Erdman called the meeting to order at 8:32 a.m.

#### 2. <u>Pledge of Allegiance</u> – Director Ray Miller

Ms. Burnett welcomed new Alternate Board Member, Kathryn Freshley as a Member of SOCWA's Finance Committee. Ms. Burnett provided a brief overview of SOCWA's organization and structure. She stated that she was available to answer any questions and that staff would be providing new Board Members with an information packet in the upcoming days.

#### 3. Public Comments - None

Finance Committee Meeting Minutes January 28, 2019 Page 2 of 2

#### 4. Workshop: Financial Supplemental Schedules Period Ending June 30, 2018

The Finance Officers of the SOCWA Member Agencies were invited to attend the meeting and participate in the discussion. Member Agency representatives who were not able to attend on January 28, 2019, would be given an opportunity to review the Financial Supplemental Schedules for the period ending June 30, 2018, on January 29, 2019, at 10:00 a.m.

Ms. Carey provided a detailed breakdown of the Balance Sheet /Net Position by Project Committee and Member Agency. An open discussion ensued.

Director Collings stated he still had open questions and did not feel comfortable supporting the item at this time.

Director Erdman stated that he had to exit the meeting at 9:50 a.m. and handed the gavel off to Director Grantham to continue chairing the meeting in his absence. Director Grantham proceeded with conducting the remainder of the Finance Committee meeting.

Director Erdman stated before exiting the meeting that for the record, he was in favor of recommending the agenda item to the Board of Directors to receive and file as submitted.

#### **ACTION TAKEN**

Motion was made by Director Freshley and seconded by Director Miller to recommend to the Board of Directors to receive and file the Financial Supplemental Schedules for the period ending June 30, 2018, as submitted.

Motion carried:	Aye 3, Nay 1, Abstained 0, Absent 2
Motion carriod.	7 ty 0 0, 1 tay 1,7 to 0 tall 10 a 0,7 to 0011t 2

Director Erdman Absent
Director Iseman Absent
Director Miller Aye
Director Grantham Aye
Director Collings Nay
Director Freshley Aye

#### 5. Adjournment

There being no further business, Alternate Chairman Grantham adjourned the meeting at 10:19 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Finance Committee of January 28, 2019, and approved by the Finance Committee and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

Betty Burnett, General Manager/Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

## MINUTES OF SPECIAL MEETING OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

### Finance Committee February 19, 2019

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee Meeting was held on February 19, 2019, at 8:30 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Finance Committee were present:

DENNIS ERDMAN

ROBB GRANTHAM

RAY MILLER

City of San Juan Capistrano

CATHENAN ERECHIEN

KATHRYN FRESHLEY El Toro Water District

Absent:

DAVID SHISSLER City of Laguna Beach

MATT COLLINGS Moulton Niguel Water District

Staff Present:

BETTY BURNETT General Manager
MARY CAREY Finance Controller
JIM BURROR Director of Operations

KONSTANTIN SHILOV Sr. Accountant NADYN KIM Accountant

DANITA HIRSH Administrative Assistant

Also Present:

DENNIS CAFFERTY
NEELY SHAHBAKTI
MATT PEREA
GAVIN CURRAN
EI Toro Water District
EI Toro Water District
South Coast Water District
City of Laguna Beach

ERICA CASTILLO Santa Margarita Water District
TREVOR AGRELIUS Moulton Niguel Water District

KYLE RHORER Carollo Engineers
DAVID BARANOWSKI Carollo Engineers
MADDIE ATKINS Carollo Engineers

#### 1. Call Meeting to Order

Chairperson Erdman called the meeting to order at 8:32 a.m.

- 2. <u>Pledge of Allegiance</u> Director Ray Miller
- 3. Public Comments None

#### 4. Approval of Minutes

- a. Finance Committee Meeting Minutes of November 16, 2018
- b. Finance Committee Meeting Minutes of November 30, 2018
- c. Finance Committee Meeting Minutes of January 28, 2018

Finance Committee Meeting Minutes February 19, 2019 Page 2 of 3

#### **ACTION TAKEN**

Motion was made by Director Miller and seconded by Director Freshley to recommend to the Finance Committee Meeting Minutes for November 16, 2018, November 30, 2018, and January 28, 2019, as submitted.

Motion carried: Aye 4, Nay 0, Abstained 0, Absent 2

Director Erdman
Director Shissler
Director Miller
Director Grantham
Director Collings
Director Freshley
Aye
Aye
Aye
Aye
Aye

Chairperson Erdman welcomed Mr. Trevor Agrelius, Controller for Moulton Niguel Water District, and Mr. Gavin Curran, Director of Administrative Services for City of Laguna Beach who sat at the table in a non-Committee Member capacity.

Ms. Burnett stated for the record that Mr. Agrelius and Mr. Curran were welcome to comment, but they are not voting members of the Finance Committee because they are not Board Alternates.

#### 5. FY2018 / 19 Adjustment

Ms. Burnett gave a summary to the Finance Committee stating the Administration Budget would be over budget by \$65,000 due to work provided by Carollo and the actuaries Nyhart and Bartel that was requested by the Board of Directors. Ms. Burnett requested \$92,391 increase be made to the Administration Budget to backfill for the additional work. An open discussion ensued.

Chairperson Erdman noted he would entertain a motion to approve the staff recommendation to send to the Board of Directors, and then he'll take any comments or questions.

Director Grantham moved approval.

Director Freshley 2<sup>nd</sup> the motion but only to open the floor for comments. An open discussion continued.

The Finance Committee instructed Carollo to make corrections to specific data in the tables regarding items being fixed vs. variable and bring back to the Finance Committee for another review at it's meeting in April 2019.

#### **ACTION TAKEN**

Motion was made by Director Grantham and seconded by Director Freshley to recommend to the Board of Directors to increase the Administration Budget to fund the actuarial services and the cost distribution study accomplished in FY 2018/19 Budget year as Board-approved work.

Motion carried: Aye 3, Nay 1, Abstained 0, Absent 2

Director Erdman Aye
Director Shissler Absent
Director Miller Aye
Director Grantham Aye
Director Collings Absent
Director Freshley Nay

Finance Committee Meeting Minutes February 19, 2019 Page 3 of 3

#### 6. Carollo Cost Distribution Study

Ms. Burnett gave a summary to the Finance Committee on the basis for hiring Carollo to perform the Cost Distribution Study. Mr. Burror, Director of Operation, also provided some insight to the study followed by Ms. Burnett introducing the Carollo team.

Mr. David Baranowski and Kyle Rhorer of Carollo walked the Finance Committee Members through a presentation on the Cost Distribution Study Model based on the operational costs and distribution analysis. An open discussion ensued throughout the presentation.

The Finance Committee directed staff to do the following:

- 1) Schedule a meeting to present Carollo's Cost Distribution Study to the member agencies Finance Manager's for discussion and feedback
- 2) Carollo will verify the positive and negative cost impacts are correct for El Toro Water District
- 3) Bring update back to the Finance Committee in April.

There was no action taken at this time.

Chairperson Erdman and Ms. Burnett welcomed new Board Member Troy Bourne and thanked him for attending the SOCWA Finance Committee meeting.

#### 7. Adjournment

There being no further business, Chairperson Erdman adjourned the meeting at 10:09 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Finance Committee of February 19, 2019, and approved by the Finance Committee and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

Betty Burnett, General Manager/Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

## Agenda Item

**Board of Directors Meeting** 

Meeting Date: April 4, 2019

**TO:** Board of Directors

FROM: Betty Burnett, General Manager

**STAFF CONTACT:** Mary Carey, Finance Controller

**SUBJECT:** Financial Reports for the Month of February 2019

#### **Summary/Discussion**

The following selected financial reports are routinely provided monthly to the Finance Committee for recommendation to the Board of Directors to ratify Cash Disbursements and receive and file the remaining documents.

The reports included are as follows:

- a) Summary of Disbursements for February 2019 (Exhibit A)
- b) Schedule of Funds Available for Reinvestment (Exhibit B)
  - Local Agency Investment Fund (LAIF) Performance Report
- c) Schedule of Cash and Investments (Exhibit C)
- d) Capital Projects Summaries (Exhibit D)
  - Capital Projects Graph (Exhibit D-1)
- e) Budget vs. Actual Expenses:
  - Operations and Environmental Safety Costs Summary (Exhibit E-1)
  - Operations and Environmental Safety Costs by PC (E-1.2)
  - ➤ Residual Engineering, after transfer to Capital (Exhibit E-2)
  - Comparison Administration (Exhibit E-3)
  - Comparison Information Technology (IT) (Exhibit E-4)

#### **Fiscal impact**

February 2019 cash disbursements were: \$1,975,071.

- Monthly disbursements are summarized in the attached Exhibit A.
- The attached Exhibits B, C, D, and E are informational reports only.

#### Recommendation

The Finance Committee recommends to the Board of Directors to ratify the February 2019 disbursements for the period from February 1, 2019, through February 28, 2019, totaling \$1,975,071, and receive and file the February 2019 Financial Reports as submitted.

#### Exhibit A

# South Orange County Wastewater Authority Summary of Disbursements for February 2019 Staff Recommendation of Fiscal Matters

	Actual
General Fund	(414,504)
PC 2 - Jay B. Latham Plant	(528,716)
PC 3 - SOCWA Plant/PCA AWT	-
PC 5 - San Juan Creek Ocean Outfall	(10,516)
PC 8 - Pretreatment Program	(8,002)
PC 12 SO - Water Reclamation Permits	(1,238)
PC 15 - Coastal Treatment Plant/AWT	(357,858)
PC 17 - Joint Regional Wastewater Reclamation	(613,961)
PC 21 - Effluent Transmission Main	(27,032)
PC 24 - Aliso Creek Ocean Outfall	(13,244)
Total	(\$1,975,071)

Exhibit B

#### SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SCHEDULE OF FUNDS AVAILABLE FOR REINVESTMENT as of February 28, 2019

CASH IN BANK: (BEGINNING BAL.) 3,149,189

L.A.I.F. FUNDS: (BEGINNING BAL.) 12,708,249

DEPOSITS, TRANSFERS & ADJUSTMENTS: 4,237,932

FUND REQUIREMENTS:

BILLS FOR CONSIDERATION (1,975,071)

\$ 18,120,300

In accordance with Government Code 53646(c), since all funds are placed in the State LAIF, staff has included in the Financial Packet, the most current statement from the State LAIF, in lieu of the report required by Government Code 53646(b)(1).

In accordance with requirements of the Government Code and the "SOCWA Investment Policy",

I hereby certify that:

- 1). All investment actions executed since the last report have been made in full compliance with the Investment Policy.
- 2). SOCWA does not have sufficient funds currently on hand to meet its expenditure obligations for the next six months (see note) due to the fact that SOCWA bills and receives operational funds on a quarterly basis only.

#### Betty Burnett General Manager

<u>Note:</u> Operational funds are collected on a quarterly basis at the beginning of the quarter. Capital funds are collected on a quarterly basis in connection with projected needs. Member agencies have pledged to have funds available to meet all obligations.



#### CALIFORNIA STATE TREASURER FIONA MA, CPA



#### **PMIA Performance Report**

Date	Daily Yield*	Quarter to Date Yield	Average Maturity (in days)
02/11/19	2.39	2.36	185
02/12/19	2.39	2.36	183
02/13/19	2.39	2.37	182
02/14/19	2.39	2.37	182
02/15/19	2.39	2.37	181
02/16/19	2.39	2.37	181
02/17/19	2.39	2.37	181
02/18/19	2.39	2.37	181
02/19/19	2.39	2.37	178
02/20/19	2.39	2.37	178
02/21/19	2.39	2.37	177
02/22/19	2.39	2.37	177
02/23/19	2.39	2.37	177
02/24/19	2.39	2.37	177
02/25/19	2.39	2.37	175
02/26/19	2.39	2.37	174
02/27/19	2.39	2.37	175
02/28/19	2.43	2.37	184
03/01/19	2.43	2.37	191
03/02/19	2.43	2.38	191
03/03/19	2.43	2.38	191
03/04/19	2.43	2.38	191
03/05/19	2.43	2.38	190
03/06/19	2.43	2.38	189
03/07/19	2.43	2.38	189
03/08/19	2.43	2.38	190
03/09/19	2.43	2.38	190
03/10/19	2.43	2.38	190
03/11/19	2.43	2.38	187
03/12/19	2.43	2.38	185
03/13/19	2.43	2.38	184

<sup>\*</sup>Daily yield does not reflect capital gains or losses

#### View Prior Month Daily Rates

#### **LAIF Performance Report**

#### Quarter Ending 12/31/18

Apportionment Rate:

0.00006573663340150 Earnings Ratio:

0.999051127 Fair Value Factor:

Daily: 2.32%

2.21% Quarter to Date:

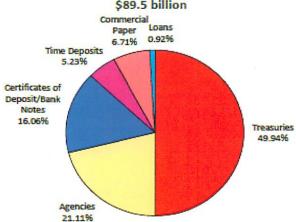
Average Life: 192

#### PMIA Average Monthly Effective Yields

Feb 2019	2.392
Jan 2019	2.355
Dec 2018	2.291

#### **Pooled Money Investment Account Portfolio Composition** 02/28/19

\$89.5 billion



Percentages may not total 100% due to rounding

Notes: The apportionment rate includes interest earned on the CalPERS Supplemental Pension Payment pursuant to Government Code 20825 (c)(1)

Based on data available as of 03/13/2019

#### **Exhibit C**

#### South Orange County Wastewater Authority Schedule of Cash and Investments as of February 28, 2019

MVA	\$	15,314	(A)
A/P Checking	\$	283,205	(B)
Payroll Checking	\$	122,532	(C)
State LAIF	_\$	17,699,249	(D)
Total Cash in Bank		18,120,300	
Petty Cash Total Operating Cash	\$	1,600 <b>18,121,900</b>	(E)
OPEB Trust	\$	4,926,600	(F)
Total Cash and Investments	\$	23,048,500	

#### Notes:

- (A) Interest bearing account; all cash receipts are deposited in this account and later moved to the LAIF account.
- (B) Accounts Payable Checks are drawn against this account; money is transferred to this account, as needed, from the LAIF account.
  - Payroll including payroll taxes and related liabilities are drawn against
- (C) this account; money is transferred into this account, as needed, from the LAIF account.
- (D) LAIF balance.
- (E) Cash on hand with GM's office and held by Chief Operators at each Treatment facility.
  - OPEB Trust Fund; these funds can only be used for Retiree Health
- (F) Benefits.

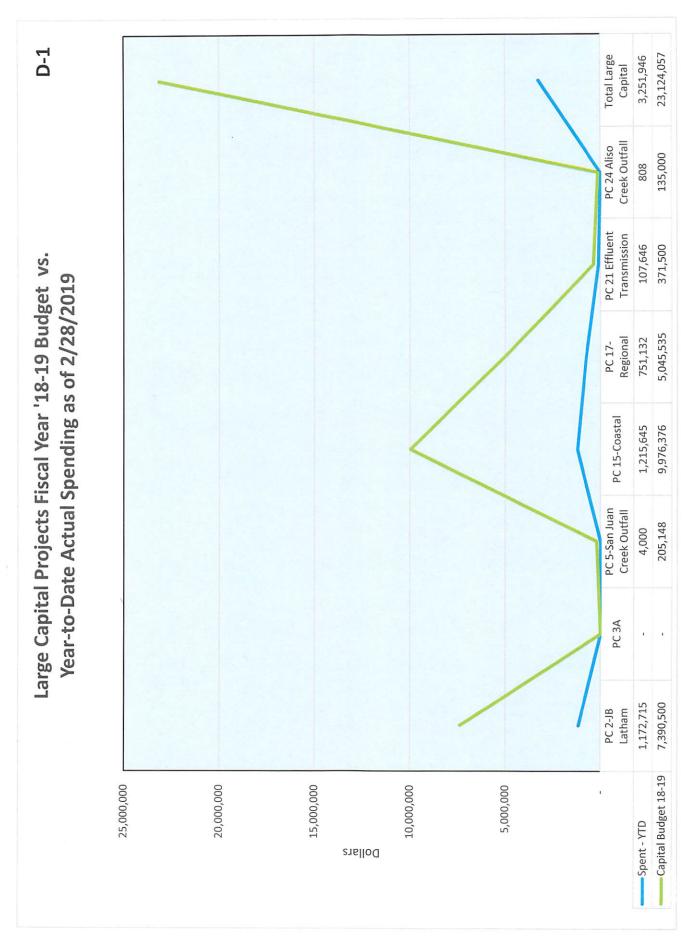
South Orange County Wastewater Authority Capital Projects Summaries For the Period Ended February 28, 2019

			FY 2018-19	2018-19 Budget vs. Actual Spending	Actual Sper	Jding				Pa	st Due by	Past Due by Fiscal Year	
Description	Capital Budget	Fiscal Year Spending	(Over)/ Under Budget	% Expended	Member Agency Billed	Member Agency Collections	Current Receivables	Past Due Amount FY 18/19	T - 4	FY 18/19 Unpaid	FY 18/19 FY 17/18 FY 16/17 Unpaid Unpaid Amounts Amounts		Total Past Due Amount
PC 2-JB Latham PC 3A	7,390,500	1,172,715	6,217,785	15.9%	715,000	715,000							
PC 5-San Juan Creek Outfall	205,148	4,000	201,148	1.9%	153,861	153,861							
PC 15-Coastal	9,976,376	1,215,645	8,760,731	12.2%	1,915,826	1,669,730		246,096 (1)	-	246,096	732,878	649,490	1,628,464
PC 17-Regional	5,045,535	751,132	4,294,402	14.9%	2,979,155	2,979,155			85				
PC 21 Effluent Transmission	371,500	107,646	263,853	29.0%	322,125	282,937		39,188 (1)	1	39,188			39,188
PC 24 Aliso Creek Outfall	135,000	808	134,192	%9.0	270,001	270,001			8				
Total Large Capital	23,124,057	3,251,946	19,872,111	14.1%	6,355,968	6,070,684	1.	285,284	Ш	285,284	732,878	649,490	1,667,652
Non-Capital Engineering Small Internal Capital	44,500	89,657 671,036	(45,157) 1,339,964	201.5% 33.4%	44,500	44,500		125,272 (1)	££	125,272	585 169,648	21,831	22,416 379,470
Total Capital	25,179,557	4,012,639	21,166,918	15.9%	7,908,718	7,498,162		410,556	F F	410,556	903,111	755,871	2,069,538

(1) Schedule for Past Due Amounts as of February 28, 2019

	£)		(2)	
Past Due Amount TOTAL	1,628,464 39,188	1,667,652	22,416 379,470	2,069,538
Past Due Amount IRWD	39,188	39,188		39,188
Past Due Amount MNWD	1,628,464	1,628,464	22,416 379,470	2,030,350
Description	PC 15-Coastal PC 21-Effluent Transmission PC 24-Aliso Creek Outfall	Total Large Capital	Non-Capital Engineering Small Internal Capital	Total Capital

(2) Balances due are for PC 15 Coastal Treatment Plant with the exception of \$39,188 payment in transit from Irvine Ranch Water District.



## South Orange County Wastewater Authority O & M & Environmental Safety Costs Summary For the Period Ended February 28, 2019

		FY 2018-19 Budget	Actual	(Over)/Under Budget	% Expended	
Salary and Fringe	Decides Coloris - COM	4 540 404	2 701 700	1,808,698	59.9%	
**-5000-**-** **-5001-**-**	Regular Salaries-O&M Overtime Salaries-O&M	4,510,404 115,036	2,701,706 143,624	(28,588)	124.9%	(1)
**-5306-**-**	Scheduled Holiday Work	49,860	24,872	24,988	49.9%	1.7
**-5315-**-**	Comp Time - O&M	1,828	12,855	(11,027)	703.2%	(1)
**-5401-**-**	Fringe Benefits IN to PC's & Depts.	3,247,504	1,931,342	1,316,162	59.5%	
**-5700-**-**	Standby Pay	69,292	45,240	24,052	65.3%	-:
	Total Payroll Costs	7,993,924	4,859,639	3,134,285	60.8%	-
Other Expenses						
**-5002-**-**	Electricity	1,055,968	907,178	148,790	85.9%	1
**-5003-**-**	Natural Gas	148,532	169,437	(20,905)		(3)
**-5004-**-**	Potable & Reclaimed Water	69,012	49,700	19,312	72.0%	
**-5005-**-**	Co-generation Power Credit	(250,012) 489,012	(149,425) 414,578	(100,587) 74,434	59.8% 84.8%	(4)
**-5006-**-**	Chlorine/Sodium Hypochlorite Polymer Products	658,028	384,919	273,109	58.5%	(4)
**-5008-**-**	Ferric Chloride	265,000	233,596	31,404	88.1%	(5)
**-5009-**-**	Odor Control Chemicals	163,008	78,299	84,709	48.0%	
**-5010-**-**	Other Chemicals - Misc.	5,000	-	5,000	0.0%	
**-5011-**-**	Laboratory Services	41,696	23,776	17,920	57.0%	
**-5012-**-**	Grit Hauling	134,008	72,616	61,392	54.2%	
**-5013-**-**	Landscaping	185,008	118,817	66,191	64.2%	
**-5014-**-**	Engineering - Misc.	175,004 363,936	11,911 34,665	163,093 329,271	6.8% 9.5%	
**-5015-**-** **-5016-**-**	Management Support Services Audit - Environmental	500	34,003	500	0.0%	
**-5017-**-**	Legal Fees	23,020	62,303	(39,283)		
**-5018-**-**	Public Notices/ Public Relations	2,008	170	1,838	8.5%	
**-5019-**-**	Contract Services Misc.	375,012	194,399	180,613	51.8%	
**-5021-**-**	Small Vehicle Expense	21,024	20,969	55	99.7%	(7)
**-5022-**-**	Miscellaneous Expense	18,488	13,204	5,284	71.4%	
**-5023-**-**	Office Supplies - All	38,004	22,825	15,179	60.1%	
**-5024-**-**	Petroleum Products	59,980	19,035	40,945	31.7%	
**-5025-**-**	Uniforms	37,016	35,300	1,716	95.4%	(6)
**-5026-**-** **-5027-**-**	Small Vehicle Fuel	35,680 185,132	13,136 142,938	22,544 42,194	36.8% 77.2%	
**-5028-**-**	Insurance - Property/Liability Small Tools & Supplies	85,664	35,384	50,280	41.3%	
**-5030-**-**	Trash Disposal	6,992	2,679	4,313	38.3%	
**-5031-**-**	Safety Program & Supplies	106,396	55,892	50,504	52.5%	
**-5032-**-**	Equipment Rental	7,008	2,006	5,002	28.6%	
**-5033-**-**	Recruitment	3,024	1,140	1,884	37.7%	
**-5034-**-**	Travel Expense/Tech. Conferences	72,068	36,747	35,321	51.0%	
**-5035-**-**	Training Expense	63,380	51,608	11,772	81.4%	
**-5036-**-**	Laboratory Supplies	90,328	55,888	34,440	61.9%	
**-5037-**-** **-5038-**-**	Office Equipment Permits	24,996 415,952	10,774 381,108	14,222 34,844	43.1% 91.6%	
**-5039-**-**	Membership Dues/Fees	11,920	10,014	1,906	84.0%	(0)
**-5044-**-**	Offshore Monitoring	36,000	24,967	11,033	69.4%	
**-5045-**-**	Offshore Biochemistry - 20B	110,000		110,000	0.0%	
**-5046-**-**	Effluent Chemistry	28,004	36,045	(8,041)	128.7%	(9)
**-5047-**-**	Access Road Expenses	48,000	28,100	19,900	58.5%	
**-5048-**-**	Storm Damage	20,008	124,752	(104,744)		(10)
**-5049-**-** **-5050-**-**	Biosolids Disposal	1,639,008	787,625	851,383	48.1% 57.5%	
**-5051-**-**	Contract Services Generators Contract Serv - Metering Station - 29B	21,004 0	12,073 92	8,931 (92)		
**-5052-**-**	Janitorial Services	100,024	49,148	50,876	49.1%	
**-5053-**-**	Contract Serv - Digester Cleaning - 29E	60,000	-	60,000	0.0%	
**-5054-**-**	Diesel Truck Maint	41,004	12,587	28,417	30.7%	
**-5055-**-**	Diesel Truck Fuel	14,004	6,142	7,862	43.9%	
**-5056-**-**	Maintenance Equip. & Facilities (Solids)	338,000	294,530	43,470	87.1%	(11)
**-5057-**-**	Maintenance Equip. & Facilities (Liquids)	591,996	355,202	236,794	60.0%	
**-5058-**-**	Maintenance Equip. & Facilities (Common)	76,004	47,006	28,998	61.8%	
**-5060-**-**	Maintenance Equip. & Facilities (Co-Gen) Maintenance Equip. & Facilities (AWT)	1,135,016 72,000	409,973 46,723	725,043 25,277	36.1% 64.9%	
**-5061-**-**	Mileage	2,036	1,394	642	68.5%	
**-5067-**-**	Port Cleaning	35,000	-	35,000	0.0%	
**-5068-**-**	MNWD Potable Water Supplies & Svcs.	24,484	22,680	1,804	92.6%	
**-5069-**-**	Misc-Capital-Dilution & Metering Study	7,996	2	7,996	0.0%	
**-5076-**-**	SCADA Infrastructure	57,000	306	56,694	0.5%	
**-5077-**-**	IT Direct		2,216	(2,216)		
**-5101-**-**	Employee Recognition	1,004	140 405	1,004	0.0%	
**-5105-**-** **-5303-**-**	Co-Generation Power Credit - Offset Group Insurance Waiver	249,972 10,824	149,425	100,547	59.8%	
**-5305-**-**	Medicare Tax Payments for Employees	9,452	9,637 3,400	1,187 6,052	89.0% 36.0%	
**-5309-**-**	Operating Leases	31,004	13,181	17,823	42.5%	
**-5705-**-**	Monthly Car Allowance	25,376	19,276	6,100	76.0%	
**-5706-**-**	Effluent Pond Cleaning	90,000.00	.0,2.0	90,000	0.0%	
**-6500-**-**	IT Allocations in to PC's & Depts.	646,448	388,792	257,656	60.1%	
	Total Other Expenses	10,707,660	6,363,352	4,344,308	59.4%	-
		18,701,5842	11,222,991	7,478,593	60.0%	1
		28	,,	., ., ., ., ., ., ., ., ., ., ., ., ., .	00.070	1

- (1) Elevated overtime costs are associated with several ongoing construction projects, staff vacancies, several large Fall/Winter storm events, larger repair projects at the plants and PC15 litigation.
- The JBL emissions control system required several upgrades; which required shutdowns that resulted in additional purchase of electricity and power transmission costs. O&M is working with Engineering to resolve outstanding AQMD compliance issues. Electricity costs at RTP have been elevated due to delays in completing the new Engine Project.
- (3) The plants continue to see decreases in wastewater flows and loads leading to less digester gas for the new engines and increased natural gas usage.
- Bleach usage was elevated in the first quarter due to elevated recycled water use and decreased flows to the plant causing partial nitrification that consumes elevated levels of bleach in the disinfection process. O&M staff has removed one aeration tank from service to reduce nitrification. The change was planned for the winter to minimize potential disruptions of recycled water in the summer and fall.
- (5) Ferric Chloride usage is elevated above the budget that was based on engineering estimates for usage to maintain compliance with AQMD permits for the new engines. Budgets will be increased in FY19/20.
- (6) Uniform expenses are elevated due to new employee change outs and required PPE has been added to employee inventories.
- (7) New vehicles were outfitted with gear for use by staff; elevating expenses for the first quarter.
- (8) SOCWA permits are primarily paid in July and November each year; the RWQCB increased its fees higher than anticipated. The increase was due to a shortfall in State funding for their permitting programs.
- (9) Annual Kelp Survey as required by NPDES permit; expenses are planned to level off.
- (10) The FY16-17 storm damage repair was completed and was determined to be a maintenance expense. Received FEMA funds of \$136,995 during FY 2017-18.
- (11) Solids expenses at JBL included the planned major overhaul of Centrifuge #2 in July; expenses are planned to level off. Solids at RTP included a large emergency repair of the hot water system; expenses are planned to level off.

## South Orange County Wastewater Authority O & M & Environmental Safety Costs by PC For the Period Ended February 28, 2019

	1	FY 2018-19		(Over)/Under	%	1
		Budget	Actual	Budget	Expended	
02 - Jay B. Latham Plant				in-		
Salary and Fringe			10000121010			
02-5000-**-**	Regular Salaries-O&M	1,472,936 32,908	895,944 51,118	576,992 (18,210)	60.8% 155.3%	(1)
02-5001-**-** 02-5306-**-**	Overtime Salaries-O&M Scheduled Holiday Work	14,732	11,402	3,330	77.4%	(1)
02-5315-**-**	Comp Time - O&M	752	7,889.14	(7,137)	1049.1%	(1)
02-5401-**-**	Fringe Benefits IN to PC's & Depts.	1,060,520	638,847	421,673	60.2%	
02-5700-**-**	Standby Pay	27,048	18,525	8,523	68.5%	
	Total Payroll Costs	2,608,896	1,623,725	985,171	62.2%	
Other Expenses						
02-5002-**-**	Electricity	374,976	327,461	47,515	87.3%	(2)
02-5003-**-**	Natural Gas	120,024	100,275	19,749	83.5%	(3)
02-5004-**-**	Potable & Reclaimed Water	20,008	15,349	4,659	76.7%	
02-5006-**-**	Chlorine/Sodium Hypochlorite	28,000 250,008	124,923	28,000 125,085	0.0% 50.0%	
02-5007-**-** 02-5008-**-**	Polymer Products Ferric Chloride	105,004	80,582	24,422	76.7%	
02-5009-**-**	Odor Control Chemicals	28,004	21,247	6,757	75.9%	
02-5010-**-**	Other Chemicals - Misc.	1,000	-	1,000	0.0%	
02-5011-**-**	Laboratory Services	10,692	5,303	5,390	49.6%	
02-5012-**-**	Grit Hauling	50,004	33,697	16,307	67.4% 80.4%	(4)
02-5013-**-** 02-5014-**-**	Landscaping Engineering - Misc.	50,004 30,004	40,194 4,747	9,810 25,257	15.8%	(4)
02-5015-**-**	Management Support Services	59,004	22,689	36,315	38.5%	
02-5017-**-**	Legal Fees	4,992	473	4,519	9.5%	
02-5019-**-**	Contract Services Misc.	115,004	51,631	63,373	44.9%	(=)
02-5021-**-**	Small Vehicle Expense	8,004	10,666	(2,662)	133.3% 41.2%	(5)
02-5022-**-** 02-5023-**-**	Miscellaneous Expense Office Supplies - All	8,000 27,000	3,296 11,725	4,704 15,275	43.4%	
02-5024-**-**	Petroleum Products	15,992	7,426	8,566	46.4%	
02-5025-**-**	Uniforms	13,004	13,670	(666)	105.1%	(6)
02-5026-**-**	Small Vehicle Fuel	14,980	7,526	7,454	50.2%	
02-5027-**-**	Insurance - Property/Liability	65,464	50,544	14,920	77.2%	
02-5028-**-** 02-5030-**-**	Small Tools & Supplies Trash Disposal	40,004 2,000	12,653 971	27,351 1,029	31.6% 48.6%	
02-5031-**-**	Safety Supplies	34,704	22,050	12,654	63.5%	
02-5032-**-**	Equipment Rental	3,000	1,834	1,166	61.1%	
02-5033-**-**	Recruitment	1,024	570	454	55.7%	
02-5034-**-**	Travel Expense/Tech. Conferences	18,876	16,280	2,596	86.2%	(7)
02-5035-**-** 02-5036-**-**	Training Expense	26,188 14,296	23,187 9,269	3,001	88.5% 64.8%	
02-5030	Laboratory Supplies Office Equipment	13,000	7,854	5,027 5,146	60.4%	
02-5038-**-**	Permits	22,432	22,793	(361)	101.6%	(8)
02-5039-**-**	Membership Dues/Fees	8,040	5,159	2,881	64.2%	37 .50
02-5049-**-**	Biosolids Disposal	600,000	227,818	372,182	38.0%	
02-5050-**-** 02-5052-**-**	Contract Services Generators Janitorial Services	9,000	7,273	1,727	80.8%	(9)
02-5053-**-**	Contract Serv - Digester Cleaning - 29E	40,004 60,000	23,595	16,409 60,000	59.0% 0.0%	
02-5054-**-**	Diesel Truck Maint	20,996	4,597	16,399	21.9%	
02-5055-**-**	Diesel Truck Fuel	6,000	2,823	3,177	47.1%	
02-5056-**-**	Maintenance Equip. & Facilities (Solids)	142,004	163,989	(21,985)	115.5%	(10)
02-5057-**-** 02-5058-**-**	Maintenance Equip. & Facilities (Liquids) Maintenance Equip. & Facilities (Common)	246,996 27,000	155,348 24,519	91,648	62.9%	(11)
02-5059-**-**	Maintenance Equip. & Facilities (Co-Gen)	485,004	160,395	2,481 324,609	90.8% 33.1%	(11)
02-5061-**-**	Mileage	2,036	455	1,581	22.4%	
02-5076-**-**	SCADA Infrastructure	19,000	306	18,694	1.6%	
02-5077-**-**	IT Direct		1,153	(1,153)	0.0%	
02-5303-**-** 02-5305-**-**	Group Insurance Waiver Medicare Tax Payments for Employees	3,604 3,864	2,409 2,047	1,195 1,817	66.8% 53.0%	
02-5309-**-**	Operating Leases	25,004	13,181	11,823	52.7%	
02-5705-**-**	Monthly Car Allowance	8,416	11,617	(3,201)	138.0%	
02-6500-**-**	IT Allocations in to PC's & Depts.	211,128	124,069	87,059	58.8%	-
	Total Other Expenses	3,492,792	1,981,815	1,510,977	56.7%	-
	Total Expenses	6,101,688	3,605,540	2,496,148	59.1%	
	Total Exponess	0,101,000	0,000,040	2,430,140	33.176	•
05 - San Juan Creek Oce	ean Outfall					
Salary and Fringe 05-5000-**-**	Decides Calaries OSM	100.070	54 704	70.000		
05-5000	Regular Salaries-O&M Overtime Salaries-O&M	123,972 1,116	51,734 644	72,238 472	41.7% 57.7%	
05-5306-**-**	Scheduled Holiday Work	740	126	614	17.0%	
05-5401-**-**	Fringe Benefits IN to PC's & Depts.	89,252	37,249	52,003	41.7%	
	Total Payroll Costs	215,080	89,753	125,327	41.7%	
Other Expenses						
05-5002-**-**	Electricity	1,004	-	1,004	0.0%	
05-5003-**-**	Natural Gas	512	-	512	0.0%	
05-5014-**-**	Engineering - Misc.	10,000	~	10,000	0.0%	
05-5015-**-**	Management Support Services	9,404	3,424	5,980	36.4%	
05-5017-**-** 05-5026-**-**	Legal Fees Small Vehicle Fuel - 37A	2,000 512	233	1,768	11.6%	
05-5027-**-**	Insurance - Property/Liability	530€	4,444	512 1,312	0.0% 77.2%	
05-5031-**-**	Safety Supplies	1,004		1,004	0.0%	

#### **South Orange County Wastewater Authority** O & M & Environmental Safety Costs by PC For the Period Ended February 28, 2019

		FY 2018-19 Budget	Actual	(Over)/Under Budget	% Expended	
05-5034-**-**	Travel Expense/Tech. Conferences	4,456	3,435	1,021	77.1%	1
05-5035-**-**	Training Expense	564	-	564	0.0%	
05-5036-**-**	Laboratory Supplies	19,236	10,651	8,585	55.4%	(0)
05-5038-**-**	Permits	155,000 18,000	172,815 12,484	(17,815) 5,516	111.5% 69.4%	
05-5044-**-** 05-5045-**-**	Offshore Monitoring Offshore Biochemistry - 20B	64.996	12,404	64,996	0.0%	(12)
05-5046-**-**	Effluent Chemistry	14,000	14,895	(895)	106.4%	(12)
05-5058-**-**	Maintenance Equip. & Facilities (Common)	1,004	-	1,004	0.0%	
05-5069-**-**	Misc-Capital-Dilution & Metering Study	7,996	•	7,996	0.0%	
05-5101-**-** 05-5305-**-**	Employee Recognition Medicare Tax Payments for Employees	1,004 2,460	-	1,004 2,460	0.0%	
05-5705-**-**	Monthly Car Allowance	4,204	-	4,204	0.0%	
05-6500-**-**	IT Allocations in to PC's & Depts.	17,772	8,697	9,075	48.9%	
	Total Other Expenses	340,884	231,078	109,806	67.8%	
	Total Expenses	555,964	320,831	235,133	57.7%	
08 - Pre Treatment						
Salary and Fringe	500) 0 500 0 W	100000000				
08-5000-**-**	Regular Salaries-O&M	80,312 1,380	48,936 0	31,376 1,380	60.9% 0.0%	
08-5001-**-** 08-5306-**-**	Overtime Salaries-O&M Scheduled Holiday Work	200	-	200	0.0%	
08-5315-**-**	Comp Time - Environment	-	2,049.03	(2,049)	0.0%	
08-5401-**-**	Fringe Benefits IN to PC's & Depts.	57,824	35,234	22,590	60.9%	- 1
	Total Payroll Costs	139,716	86,218	53,498	61.7%	
Other Expenses	1.1	2 000	745	0.055	04.00/	(12)
08-5011-**-** 08-5015-**-**	Laboratory Services Management Support Services	3,000 4,004	745 906	2,255 3,098	24.8% 22.6%	(13)
08-5016-**-**	Audit - Environmental	500	-	500	0.0%	
08-5017-**-**	Legal Fees	2,008	10,465	(8,457)	521.2%	
08-5018-**-**	Public Notices/ Public Relations	2,008	170	1,838	8.5%	
08-5021-**-** 08-5022-**-**	Small Vehicle Expense - 31A	1,016 1,496		1,016 1,496	0.0% 0.0%	
08-5026-**-**	Miscellaneous Expense Small Vehicle Fuel - 37A	1,196	-	1,196	0.0%	
08-5027-**-**	Insurance - Property/Liability	2,016	1,557	459	77.2%	
08-5028-**-**	Small Tools & Supplies	6,648	686	5,962	10.3%	
08-5034-**-**	Travel Expense/Tech. Conferences	4,248	1,762.46	2,486	41.5%	
08-5035-**-** 08-5038-**-**	Training Expense Permits and Fines	3,872 10,012	965	2,907 10,012	24.9% 0.0%	
08-5039-**-**	Membership Dues/Fees	324	430	(106)	132.7%	
08-6500-**-**	IT Allocations in to PC's & Depts.	11,516	7,463	4,053	64.8%	-
	Total Other Expenses	53,864	25,149	28,715	46.7%	-
	Total Expenses	193,580	111,367	82,213	57.5%	-
12 - Water Reclamation	Permits					
Salary and Fringe	D - 1 - 0 - 1 0 0 1 -	00.000	04 700	0.050	74.50/	
12-5000-**-** 12-5401-**-**	Regular Salaries-O&M Fringe Benefits IN to PC's & Depts.	30,396 21,880	21,738 15,651	8,658 6,229	71.5% 71.5%	
12-5401	Total Payroll Costs	52,276	37,389	14,887	67.4%	-:
Other Eupapasa						=8
Other Expenses 12-5015-**-**	Management Support Services	130,516	2,000.00	128,516	1.5%	
12-5017-**-**	Legal Fees	2,004	1,872	132	93.4%	
12-5027-**-**	Insurance - Property/Liability	1,000	772	228	77.2%	
12-5034-**-** 12-5038-**-**	Travel Expense/Tech. Conferences Permits	2,240	58 16,347	2,182	2.6% 88.4%	(0)
12-6500-**-**	IT Allocations in to PC's & Depts.	18,488 4,356	4,199	2,141 157	96.4%	
	Total Other Expenses	158,604	25,249	133,356	15.9%	
	Total Expenses	210,880	62,637	148,243	29.7%	50
15 - Coastal Treatment	Plant					
Salary and Fringe						
15-5000-**-**	Regular Salaries-O&M	897,448	512,909	384,539	57.2%	
15-5001-**-**	Overtime Salaries-O&M	21,252	19,496	1,756	91.7%	(1)
15-5306-**-** 15-5315-**-**	Scheduled Holiday Work Comp Time - O&M	6,548	2,811 269.36	3,737 (269.36)	42.9% 0.0%	(1)
15-5401-**-**	Fringe Benefits IN to PC's & Depts.	646,172	369,295	276,877	57.2%	(1)
15-5700-**-**	Standby Pay	16,900	3,250	13,650	19.2%	
	Total Payroll Costs	1,588,320	908,030	680,290	57.2%	-
Other Expenses						
15-5002-**-**	Electricity	297,000	148,668	148,332	50.1%	
15-5003-**-** 15-5004-**-**	Natural Gas Potable & Reclaimed Water	2,996 13,004	1,404	1,592	46.9%	(1.1)
15-5004 15-5006-**-**	Chlorine/Sodium Hypochlorite	100,004	16,791 46,975	(3,787) 53,029	129.1% 47.0%	(14)
15-5007-**-**	Polymer Products	2,008		2,008	0.0%	
15-5008-**-**	Ferric Chloride	30,996	33,170	(2,174)	107.0%	(15)
15-5009-**-** 15-5011-**-**	Odor Control Chemicals	85,004	31,654	53,350	37.2%	
15-5012-**-**	Laboratory Services Grit Hauling	11,500 30 <b>3</b> 0	7,040 12,989	4,460 17,015	61.2% 43.3%	
15-5013-**-**	Landscaping	30 <b>399</b> 4 60,008	27,640	32,368	46.1%	
15-5014-**-**	Engineering - Misc.	20,000	2,788	17,212	13.9%	

#### **South Orange County Wastewater Authority** O & M & Environmental Safety Costs by PC For the Period Ended February 28, 2019

		FY 2018-19 Budget	Actual	(Over)/Under Budget	% Expended	
45 5045 ** ** **	Management Support Sonvices	10,000	42.20	9,958	0.4%	1
15-5015-**-** 15-5017-**-**	Management Support Services Legal Fees	5,000	35,507	(30,507)	710.1%	
15-5019-**-**	Contract Services Misc.	110,000	59,261	50,739	53.9%	
15-5021-**-**	Small Vehicle Expense	6,004	3,519	2,485	58.6%	
15-5022-**-**	Miscellaneous Expense	2,996	2,522	474	84.2%	
15-5023-**-**	Office Supplies - All	4,004	3,547	457	88.6%	
15-5024-**-**	Petroleum Products	2,000	1,841	159	92.0%	120000
15-5025-**-**	Uniforms	6,004	5,289	715	88.1%	(6)
15-5026-**-**	Small Vehicle Fuel	6,004	807	5,197	13.4%	
15-5027-**-**	Insurance - Property/Liability	26,436	20,411	6,025 1,247	77.2% 88.7%	
15-5028-**-**	Small Tools & Supplies	11,000 2,996	9,753 918	2,078	30.7%	
15-5030-**-** 15-5031-**-**	Trash Disposal Safety Program & Supplies	34,692	13,031	21,661	37.6%	
15-5032-**-**	Equipment Rental	1,000	172	828	17.2%	
15-5033-**-**	Recruitment	1,000		1,000	0.0%	
15-5034-**-**	Travel Expense/Tech. Conferences	18,872	4,722	14,150	25.0%	
15-5035-**-**	Training Expense	13,652	5,104	8,548	37.4%	
15-5036-**-**	Laboratory Supplies	14,496	9,398	5,098	64.8%	
15-5037-**-**	Office Equipment	2,000	- 0.110	2,000	0.0%	
15-5038-**-**	Permits	22,000	2,110	19,890 (467)	9.6% 148.2%	(17)
15-5039-**-** 15-5047-**-**	Membership Dues/Fees Access Road Expenses	48,000	1,435 28,100	19,900	58.5%	(17)
15-5047	Storm Damage	20,008	124,752	(104,744)	623.5%	(18)
15-5049-**-**	Biosolids Disposal - 21B	125,004	-	125,004	0.0%	()
15-5050-**-**	Contract Services Generators	4,004	1,674	2,330	41.8%	
15-5051-**-**	Contract Serv - Metering Station - 29B	2	92	(92)	0.0%	
15-5052-**-**	Janitorial Services	20,008	7,464	12,544	37.3%	
15-5054-**-**	Diesel Truck Maint	1,004	115	889	11.4%	
15-5055-**-**	Diesel Truck Fuel - 37B	1,004	-	1,004	0.0%	
15-5057-**-**	Maintenance Equip. & Facilities (Liquids)	175,000	44,223	130,777	25.3%	
15-5058-**-**	Maintenance Equip. & Facilities (Common)	21,000	2,330 124	18,670 (124)	11.1% 0.0%	
15-5059-01-00-00 15-5060-**-**	Maintenance Equip. & Facilities (Co-Gen) 41-I Maintenance Equip. & Facilities (AWT)	36,000	8,297	27,703	23.0%	
15-5061-**-**	Mileage	-	243	(243)	0.0%	
15-5076-**-**	SCADA Infrastructure	19,000	-	19,000	0.0%	
15-5077-**-**	IT Direct	-	1,063	(1,063)	0.0%	
15-5303-**-**	Group Insurance Waiver	3,600	2,409	1,191	66.9%	
15-5305-**-**	Medicare Tax Payments for Employees	2,996	1,314	1,682	43.9%	
15-5705-**-**	Monthly Car Allowance	1,368	2,811	(1,443)	205.5%	
15-6500-**-**	IT Allocations in to PC's & Depts.	128,644	75,440	53,204	58.6%	-
	Total Other Expenses	1,560,288	808,981	751,307	51.8%	
	Total Expenses	3,148,608	1,717,011	1,431,597	54.5%	-
17 Joint Designal Wood	acceptant Paulamatian and Sludge Handling					
Salary and Fringe	ewater Reclamation and Sludge Handling					
17-5000-**-**	Regular Salaries-O&M	1,776,684	1,118,243	658,441	62.9%	
17-5001-**-**	Overtime Salaries-O&M	57,712	71,144	(13,432)	123.3%	(1)
17-5306-**-**	Scheduled Holiday Work	27,320	10,456	16,864	38.3%	
17-5315-**-**	Comp Time - O&M	1,076	2,647.14	(1,571)	246.0%	(1)
17-5401-**-**	Fringe Benefits IN to PC's & Depts.	1,279,200	797,481	481,719	62.3%	
17-5700-**-**	Standby Pay Total Payroll Costs	25,344 3,167,336	23,465	1,879 1,143,900	92.6% 56.4%	
	Total Payroll Costs	3,107,000	2,023,430	1,145,900	30.476	-
Other Expenses						
17-5002-**-**	Electricity	381,988	431,048	(49,060)	112.8%	(2)
17-5003-**-**	Natural Gas	25,000	67,758	(42,758)	271.0%	(3)
17-5004-**-**	Potable & Reclaimed Water	36,000	17,559	18,441	48.8%	(0)
17-5005-**-** 17-5006-**-**	Co-generation Power Credit	(250,012)		(100,587)	59.8%	
17-5006 17-5007-**-**	Chlorine/Sodium Hypochlorite Polymer Products	361,008 406,012	367,602 259,996	( <mark>6,594)</mark> 146,016	101.8% 64.0%	(19)
17-5008-**-**	Ferric Chloride	129,000	119,844	9,156	92.9%	(20)
17-5009-**-**	Odor Control Chemicals	50,000	25,398	24,602	50.8%	(/
17-5010-**-**	Other Chemicals - Misc.	4,000		4,000	0.0%	
17-5011-**-**	Laboratory Services	16,504	10,689	5,815	64.8%	
17-5012-**-**	Grit Hauling - 21A	54,000	25,929	28,071	48.0%	
17-5013-**-**	Landscaping	74,996	50,983	24,013	68.0%	(4)
17-5014-**-** 17-5015-**-**	Engineering - Misc.	32,500	2,801	29,699	8.6%	
17-5015	Management Support Services Legal Fees	123,500 5,008	42.21 2,707	123,458 2,301	0.0% 54.1%	
17-5019-**-**	Contract Services Misc.	150,008	82,972	67,036	55.3%	
17-5021-**-**	Small Vehicle Expense	6,000	6,784	(784)	113.1%	(5)
17-5022-**-**	Miscellaneous Expense	5,996	7,387	(1,391)	123.2%	
17-5023-**-**	Office Supplies - All	7,000	7,552	(552)	107.9%	
17-5024-**-**	Petroleum Products	41,988	9,768	32,220	23.3%	400
17-5025-**-**	Uniforms	18,008	16,341	1,667	90.7%	(6)
17-5026-**-** 17-5027-**-**	Small Vehicle Fuel Insurance - Property/Liability	12,988 78,860	4,803	8,185 17,073	37.0%	
17-5027-**	Small Tools & Supplies	78,860 28,012	60,887 12,291	17,973 15,721	77.2% 43.9%	
17-5030-**-**	Trash Disposal	1,996	790	1,207	39.6%	
17-5031-**-**	Safety Program & Supplies	35,000	20,810	14,190	59.5%	
17-5032-**-**	Equipment Rental	3,008		3,008	0.0%	
17-5033-**-**	Recruitment	1 <b>322</b> 0 18,880	570	430	57.0%	
17-5034-**-**	Travel Expense/Tech. Conferences		7,078	11,802	37.5%	
17-5035-**-**	Training Expense	18,584	22,352	(3,768)	120.3%	

### South Orange County Wastewater Authority O & M & Environmental Safety Costs by PC For the Period Ended February 28, 2019

		FY 2018-19 Budget	Actual	(Over)/Under Budget	% Expended	
17-5036-**-**	Laboratory Supplies	22,740	14,411	8,329	63.4%	-
17-5037-**-**	Office Equipment	9,996	2,920	7,076	29.2%	
17-5038-**-**	Permits	40,016	1,917	38,099	4.8%	
17-5039-**-**	Membership Dues/Fees	2,588	2,990	(402)	115.5%	(17
17-5049-**-**	Biosolids Disposal	914,004	559,807	354,197	61.2%	
17-5050-**-**	Contract Services Generators	8,000	3,127	4,873 21,924	39.1% 45.2%	
17-5052-**-**	Janitorial Services	40,012 19,004	18,088 7,876	11,128	41.4%	
17-5054-**-**	Diesel Truck Maint	7,000	3,318	3,682	47.4%	
17-5055-**-**	Diesel Truck Fuel	195,996	130,541	65,455	66.6%	
17-5056-**-**	Maintenance Equip. & Facilities (Solids)	170,000	155,631	14,369	91.5%	
17-5057-**-** 17-5058-**-**	Maintenance Equip. & Facilities (Liquids) Maintenance Equip. & Facilities (Common)	26,000	18,038	7,962	69.4%	
17-5059-**-**	Maintenance Equip. & Facilities (Co-Gen)	650,012	249,454	400.558	38.4%	
17-5059	Maintenance Equip. & Facilities (CO-Gen) Maintenance Equip. & Facilities (AWT)	36,000	38,427	(2,427)	106.7%	
17-5060 17-5061-**-**	Mileage	-	696	(696)	0.0%	
17-5068-**-**	MNWD Potable Water Supplies & Svcs.	24,484	22,680	1,804	92.6%	
17-5076-**-**	SCADA Infrastructure	19,000		19,000	0.0%	
17-5105-**-**	Co-Generation Power Credit - Offset	249,972	149,425	100,547	59.8%	
17-5303-**-**	Group Insurance Waiver	3,620	4,818	(1,198)	133.1%	
17-5305-**-**	Medicare Tax Payments for Employees	132	39	93	29.2%	
17-5309-**-**	Operating Leases	6,000	-	6,000	0.0%	
17-5705-**-**	Monthly Car Allowance	11,388	4,849	6,539	42.6%	
17-5706-**-**	Effluent Pond Cleaning	90,000	-	90,000	0.0%	
17-6500-**-**	IT Allocations in to PC's & Depts.	254,744	161,028	93,716	63.2%	
	Total Other Expenses	4,677,540	3,043,694	1,633,846	65.1%	-
	Total Expenses	7,844,876	5,067,130	2,777,746	64.6%	_
21 - Effluent Transmiss Salary and Fringe	ion Main					
21-5000-**-**	Regular Salaries-O&M	500	356	144	64.1%	
21-5401-**-**	Fringe Benefits IN to PC's & Depts.	360	256	104	64.1%	
	Total Payroll Costs	860	612	248	64.1%	
Other Expenses						
21-5014-**-**	Engineering - Misc.	62,496	1,575	60,921	2.5%	
21-5015-**-**	Management Support Services	2,500	-	2,500	0.0%	
21-5019-**-**	Contract Services Misc 29		535	(535)	0.0%	
21-5027-**-**	Insurance - Property/Liability		0	0	0.0%	
	Total Other Expenses	64,996	2,110	62,886	3.2%	-,
	Total Expenses	65,856	2,722	63,134	4.1%	-
23 - North Coast Interce	eptor					
Other Expenses 23-5017-**-**	Logal Food		10.742	(10,743)	0.00/	
23-3017	Legal Fees Total Other Expenses		10,743 10,743	(10,743)	0.0%	_
	Total Other Expenses		10,743	(10,743)	0.0%	
(4)	Total Expenses		10,743	(10,743)	0.0%	- 1
24 - Aliso Creek Ocean	Outfall					
Salary and Fringe 24-5000-**-**	Regular Salaries-O&M	128,156	51,846	76,310	40.5%	
24-5000-**-**	Overtime Salaries-O&M	668	1,222	(554)	182.9%	
24-5306-**-**	Scheduled Holiday Work	320	78	242	24.5%	
24-5401-**-**	Fringe Benefits IN to PC's & Depts.	92,296	37,329	54,967	40.4%	
	Total Payroll Costs	221,440	90,476	130,964	40.9%	
Other Frances	_			,		-0
Other Expenses 24-5002-**-**	Electricity	1 000	5-291	1 000	0.007	
24-5014-**-**	Electricity Engineering - Misc	1,000	-	1,000	0.0%	
24-5015-**-**	Engineering - Misc. Management Support Services	20,004 25,008	5,561	20,004 19,447	0.0% 22.2%	
24-5017-**-**	Legal Fees	2,008				
24-5027-**-**	Insurance - Property/Liability	5,600	304 4,324	1,704 1,276	15.1% 77.2%	
24-5031-**-**	Safety Supplies	996	4,324	996	0.0%	
24-5034-**-**	Travel Expense/Tech. Conferences	4,496	3,412	1,084	75.9%	
24-5035-**-**	Training Expense	520	5,412	520	0.0%	
24-5036-**-**	Laboratory Supplies	19,560	12,160	7,400	62.2%	
24-5038-**-**	Permits	148,004	165,126	(17,122)	111.6%	
24-5044-**-**	Offshore Monitoring	18,000	12,484	5,516	69.4%	
24-5045-**-**	Offshore Biochemistry - 20B	45,004	5.000 to 2000 t	45,004	0.0%	
24-5046-**-**	Effluent Chemistry	14,004	21,150	(7,146)	151.0%	
24-5058-**-**	Maintenance Equip. & Facilities (Common) 41	1,000	2,118	(1,118)	211.8%	
24-5067-**-**	Port Cleaning	35,000		35,000	0.0%	
24-6500-**-**	IT Allocations in to PC's & Depts.	18,288	7,896	10,392	43.2%	_
	Total Other Expenses	358,692	234,534	124,158	65.4%	-
	Total Expenses	580,132	325,010	255,122	56.0%	
	SOCWA TOTAL	18,701,584	11,222,991	7,478,593	60.0%	.]

### South Orange County Wastewater Authority O & M & Environmental Safety Costs by PC

For the Period Ended February 28, 2019

- (1) Elevated overtime costs are associated with several ongoing construction projects, staff vacancies, repair projects at the plants and PC15 litigation.
- The JBL emissions controls system required several upgrades; which required shutdowns that resulted in additional purchase of electricity and power transmission costs. O&M is working with Engineering to resolve outstanding AQMD compliance issues. Electricity costs at RTP have been elevated due to delays in completing the new Engine project.
- (3) The plants continue to see decreases in wastewater flows and loads leading to less digester gas for the new engines and increased natural gas usage.
- (4) Several large trees were removed that were in danger of falling onto the adjacent properties; expenses are planned to level off.
- (5) New vehicles were outfitted with gear for use by staff; elevating expenses for the first quarter.
- (6) Uniform expenses are elevated due to new employee change outs and required PPE has been added to employee inventories.
- (7) Two of the three planned major conferences were attended by staff in the first quarter of the Fiscal Year including, WEFTEC and HACHWIMS; expenses are planned to level off.
- (8) SOCWA permits are primarily paid in July and November each year; the RWQCB increased its fees higher than anticipated. The increase was due to a shortfall in State funding for their permitting programs.
- (9) Standby Generator maintenance was completed for the FY. No additional expenses are anticipated.
- Solids expenses included the planned major overhaul of Centrifuge #2 in July; expenses are planned to level off.
- Common expenses included several large repairs in anticipation of the upcoming winter weather; expenses are planned to level off.
- (12) Additional toxicity testing due to NPDES accelerated monitoring at Aliso Creek Ocean Outfall.
- (13) These are pass through costs that will be billed to private companies directly and reversed during the year.
- (14) Water use is higher than planned to meet a new recommendation for odor scrubber operations to reduce equipment fouling.
- (15) Ferric Chloride usage is elevated due to higher than normal hydrogen sulfides in the sewer systems discharging to CTP.
- (16) Elevated use of generator fuel at CTP due to power company work in the area.
- (17) Several staff membership dues were paid in late summer; expenses are planned to level off.
- (18) The FY16-17 storm damage repair was completed and was determined to be a maintenance expense.
- Bleach usage has been elevated in the first quarter due to elevated recycled water use and decreased flows to (19) the plant causing partial nitrification that consumes elevated levels of bleach in the disinfection process. O&M staff has removed one aeration tank from service to reduce nitrification. The change was planned for the winter to minimize potential disruptions of recycled water in the summer and fall.
- (20) Ferric Chloride usage is elevated above the budget that was based on engineering estimates for usage to maintain compliance with AQMD permits for the new engines. Budgets will be increased in FY19/20.
- (21) SOCWA purchased a number of Design Standards, Guidelines, and Operations study manuals for new staff to use at the plant.
- (22) Office Supplies spending is expected to level off.
- (23) Liquids expenses included several large repairs in anticipation of the upcoming winter weather; expenses are planned to level off.
- Several failed valves were replaced at RTP that could not wait until the annual AWT maintenance shutdown in
- (25) The Aliso Creek Ocean Outfall sampling station has failed and is in the process of being assessed for potential replacement.

Exhibit E-2

### South Orange County Wastewater Authority Budget vs. Actual Comparison - Residual Engineering, after transfer to Capital For the Period Ended February 28, 2019

		FY 2018-19	FY 2018-19 Actual		%
		Budget	Actual	Budget	Expended
		,			
Salary and Fringe			100 100	70.005	0.4.00/
**-5000-**-**-00	Regular Salaries-O&M	199,834	129,469	70,365	64.8%
01-5401-03-00-00	Fringe Benefits IN to PC's & Depts.	143,880	134,452	9,428	93.4%
	Total Payroll Costs	343,714	263,921	79,793	76.8%
Other Expenses					
01-5015-03-00-00	Management Support Services	7,500	-	7,500	0.0%
01-5022-03-00-00	Miscellaneous Expense	3,060	=	3,060	0.0%
01-5023-03-00-00	Office Supplies - All	200	192	8	95.8%
01-5031-03-00-00	Safety Supplies	:=:	145	(145)	0.0%
01-5034-03-00-00	Travel Expense/Tech. Conferences	6,659	7,988	(1,329)	120.0%
01-5035-03-00-00	Training Expense	4,000	-	4,000	0.0%
01-5037-03-00-00	Office Equipment	5,000	1,890	3,111	37.8%
01-5039-03-00-00	Membership Dues/Fees	2,025	846	1,179	41.8%
01-5061-03-00-00	Mileage	300	-	300	0.0%
01-5301-03-00-00	Vehicle Pay	4,200	-	4,200	0.0%
01-5309-03-00-00	Operating Leases	20,637	4,463	16,174	21.6%
01-5705-03-00-00	Monthly Car Allowance	-	2,811	(2,811)	0.0%
01-5802-03-00-00	Shipping/Freight	300	_	300	0.0%
01-6500-03-00-00	IT Allocations in to PC's & Depts.	59,860	34,734	25,126	58.0%
	Total Other Expenses	113,741	53,099	60,642	46.7%
	Total Expenses	457,455	317,019	140,435	69.3%

The costs in this department will vary based on the amount of work required to support Capital Projects vs. Non-Capital Projects.

### South Orange County Wastewater Authority Budget vs. Actual Comparison - Administration

For the Period Ended February 28, 2019

		FY 2018-19 Budget	*Board Approved Expenditure not in Budget	Adjusted Budget	Actual	(Over)/Under Budget	% Expended	
Salary and Fringe								
01-6000-04-00-00	Regular Salaries-Admin or IT	985,352		985,352	599,995	385,357	60.9%	
01-6001-04-00-00	Overtime Salaries-Admin or IT	12,000		12,000	9,074	2,926	75.6%	
01-6315-04-00-00	Comp Time - Admin	10,000		10,000	4,292	5,708	42.9%	
01-6401-04-00-00	Fringe Benefits IN to ADMIN or IT	709,453		709,453	386,823	322,630	54.5%	_
	Total Payroll Costs	1,716,805		1,716,805	1,000,184	716,621	58.3%	_
Other Expenses								
01-5018-04-00-00	Public Notices/ Public Relations	1,400		1,400	-	1,400	0.0%	
01-5101-04-00-00	Employee Recognition	-		-	500	(500)	0.0%	(1)
01-6101-04-00-00	HR Recruitment & Employee Relations	21,200		21,200	12,517	8,683	59.0%	
01-6102-04-00-00	Subscriptions	3,243		3,243	1,934	1,309	59.6%	
01-6200-04-00-00	Management Support Services	112,500	92,391	204,891	123,716	81,175	60.4%	(2)
01-6201-04-00-00	Audit	40,000		40,000	20,000	20,000	50.0%	
01-6202-04-00-00	Legal	250,000		250,000	173,531	76,469	69.4%	(3)
01-6204-04-00-00	Postage	2,319		2,319	1,028	1,291	44.3%	
01-6223-04-00-00	Office Supplies - Admin	8,471		8,471	3,667	4,804	43.3%	
01-6224-04-00-00	Office Equipment Admin or IT	8,000		8,000	351	7,649	4.4%	
01-6234-04-00-00	Memberships & Trainings	89,520		89,520	59,943	29,577	67.0%	
01-6239-04-00-00	Travel & Conference	20,800		20,800	19,587	1,213	94.2%	
01-6240-04-00-00	Scholarship Sponsorship	1,000		1,000	-	1,000	0.0%	
01-6241-04-00-00	Education Reimbursement	-		-	1,500	(1,500)	0.0%	
01-6310-04-00-00	Miscellaneous	20,000		20,000	13,779	6,221	68.9%	
01-6311-04-00-00	Mileage	1,000		1,000	612	389	61.1%	
01-6317-04-00-00	Contract Services Misc	4,936		4,936	3,220	1,716	65.2%	
01-6500-04-00-00	IT Allocations in to PC's & Depts.	141,240		141,240	66,184	75,056	46.9%	
01-6601-04-00-00	Shipping/Freight	1,500		1,500	2,443	(943)	162.9%	
01-6705-04-00-00	Monthly Car Allowance	12,000		12,000	8,031	3,969	66.9%	_
	Total Other Expenses	739,130	92,391	831,521	512,544	318,978	61.6%	
	Total Expenses	2,455,935	92,391	2,548,326	1,512,728	1,035,598	59.4%	]

<sup>\*</sup> Additional Budget disclosed during Finance Committee meeting 2/19

<sup>(1)</sup> End-of-the-Year Employee award.

<sup>(2)</sup> Costs include Carollo Engineering utility cost allocation study, \$42,269, expended to date and Actuaries costs for the Long Term Liabilities Methodologies Study, \$37,792. These Board Approved Projects were not included in the Administration Budget. The Board approved a Budget increase of \$92,391 on March 7, 2019 to cover these costs.

<sup>(3)</sup> Procopio Firm is anticipated to be over legal budget due to start-up work and project to evaluate changes to JPA Agreement this FY.

### Exhibit E-4

### South Orange County Wastewater Authority Budget vs. Actual Comparison-IT For the Period Ended February 28, 2019

		FY 2018-19 Budget	Actual	(Over)/Under Budget	%
		Dauget		Dauget	Expended
Salary & Fringe					
01-6000-05-00-00	Regular Salaries-Admin or IT	93,378	56,165	37,213	60.1%
01-6001-05-00-00	Overtime Salaries-Admin or IT	3,082	1,222	1,859	39.7%
01-6315-05-00-00	Comp Time - IT	2,332	2,830	(498)	121.4%
01-6401-05-00-00	Fringe Benefits IN to ADMIN or IT	67,232	40,439	26,793	60.1%
	Total Salary & Fringe	166,024	100,656	65,368	60.6%
Other Francisco					
Other Expenses	Constitution of Constitution	1 000		1 000	0.0%
01-5028-05-00-00	Small Tools & Supplies	1,000	=	1,000	0.0%
01-5035-05-00-00	Training Expense	12,000 400	-	12,000 400	0.0%
01-5037-05-00-00 01-5061-05-00-00	Office Equipment Mileage	400	498	(498)	0.0%
01-6200-05-00-00	Management Support Services	64,500	3,663	60,837	5.7%
01-6234-05-00-00	Memberships & Trainings	2,750	96	2,654	3.5%
01-6239-05-00-00	Travel & Conference	4,210	90	4,210	0.0%
01-6300-05-00-00	Software Maintenance Agreements	98,893	65,241	33,651	66.0%
01-6301-05-00-00	Hardware Maintenance Agreements	11,657	2,474	9,182	21.2%
01-6302-05-00-00	Cloud Subscriptions (Internet)	45,800	81,812	(36,012)	178.6% (1)
01-6303-05-00-00	Telecommunications	129,940	78,221	51,719	60.2%
01-6305-05-00-00	IT Professional Services	157,000	56,448	100,552	36.0%
01-6306-05-00-00	Small Hardware Purchases (< \$5k)	46,800	49,994	(3,194)	106.8%
01-6307-05-00-00	Small Software Purchases & Licenses (<\$5k)	43,735	17,125	26,611	39.2%
01-6308-05-00-00	IT Memberships	160	130	30	81.3%
01-6309-05-00-00	Operating Leases	55,200	31,525	23,675	57.1%
01-6310-05-00-00	Miscellaneous	5,000	219	4,781	4.4%
01-6312-05-00-00	Computer & Photocopy Supplies	2,275	1,607	668	70.6%
01-6601-05-00-00	Shipping/Freight	276	-	276	0.0%
	Total Other Expenses	681,596	389,055	292,542	57.1%
	Total Expenses before Allocation	847,620	489,710	357,910	57.8%
		017,020	100,110	557,510	07.070
IT Allocations (Out)	5.50 / M - NO - 5 (1.50 M - 1.50 M - 1	(0.47.655)	(100 =:=:	(0== 0:=:	
01-6400-05-00-0	O IT Allocations (OUT) to PC's & Depts.	(847,620)	(489,710)	(357,910)	57.8%
	Total IT Allocations (Out) to PC's & Depts	(847,620)	(489,710)	(357,910)	57.8%

<sup>(1)</sup> Additional IT system security, not included in the budget

### Agenda Item

Meeting Date: April 4, 2019

**TO:** Board of Directors

FROM: Betty Burnett, General Manager

**STAFF CONTACT:** Jim Burror, Director of Operations

**SUBJECT:** February 2019 Operations Report

### **Summary/Discussion**

The following selected operational reports are provided monthly to the Board of Directors. The operational reports included are as follows:

1) Monthly Operational Report

An eight (8) page overview and comparison of owner use of facilities, including influent and recycled water production. The pages include ongoing calculation used by SOCWA for billing the agencies. Other items include important statistics for regulatory compliance, visits by the public to the treatment works, and other vendor interactions. The information is broken down by facility and by member agency.

2) SOCWA Ocean Outfall Discharges by Agency

This data shows how much water is being discharged to the ocean each month and for the last 12 months. This data is presented for the agencies planning reuse projects to better understand the potential to expand water reuse in their service area.

- 3) Beach Ocean Monitoring Report
- 4) Recycled Water Report
- Pretreatment Report

### **Fiscal impact**

No change

### Recommendation

Receive and file the Operational Reports.

### Monthly Operational Report

### SOCWA Operational Report February, 2019

### **Excursion, Complaint, and Violation Events**

Events	CTP	RTP	JBL	Totals
Odor	0	0	0	0
Noise	0	0	0	0
Spills	0	0	0	0
Violations	0	0	0	0
Others	0	0	0	0

### **Plant Wastewater Billing Characteristics**

Key Parameters	CTP	RTP	JBL TP1	JBL TP2	Totals
Influent (mgd) (1)	2.81	8.46	5.17	1.07	17.51
Effluent (mgd)	2.89	5.88	5.17	1.51	15.45
Peak Flow (mgd)	11.92	30.39	17.88	8.36	68.55
Influent BOD (mg/l)	209	256	342	282	
Influent TSS (mg/l)	306	295	584	311	
Effluent BOD (mg/l)	6.2	3.4	8.2	8.1	
Effluent TSS (mg/l)	8.2	6.5	10.3	11.5	
Effluent Turbidity (NTU)	2.7	3.4	4.4	4.4	

<sup>(1)</sup> CTP Influent value does not include AWT backwash in this table.

### **Recycled Water (AWT) Operations**

Key Parameters	CTP(1)	RTP	JBL	Totals
Average Flow (mgd)	0.00	2.58		2.58
Days of Operation (days)	0	28		
Total Flow (million gallons)	0.0	72.2		72.2
Plant Irrigation (million gallons)	0.00	0.00	0.26	
AWT Time Online (%)	0.0	99.0		

<sup>(1)</sup> AWT offline for SOCWA AWT construction project.

### **Wastewater Unit Definitions**

mgd = million gallons per day

mg/l = milligram per liter also known as parts per million

NTU = Nephelometric Turbidity Units

### **Biosolids Management**

Biosolids Management Site	СТР	RTP	JBL	Totals
Synagro Compost (tons)		711.7	0.0	711.7
Nursery Products (tons)		353.5	694.4	1,047.9
Prima Deshecha (tons)		18.3	16.0	34.3
Other: (tons)		0.0	0.0	0.0
Total Processed (tons)		1,083.6	710.4	1,794.0

### **Summary of Maintenance Activities**

Task Type	СТР	RTP	JBL	Totals
Preventative Maintenance	311	517	153	981
Corrective Maintenance	24	74	73	171

### **Site Visitors**

Visitor Types	CTP	RTP	JBL	Totals
Regulatory	0	0	0	0
Member Agency	0	5	2	7
Residents	0	0	0	0
Others	15	0	59	74
Tours #/Visitors	0	26	0	26

### **Grit Disposal Management**

Grit & Screenings	СТР	RTP	JBL	Totals
Simi Valley Landfill (tons)	NA	34.4	NA	34.4

### **Chemical and Energy Utilization**

Chemical/Utility	СТР	RTP	JBL	Totals
Ferric Chloride (tons)	NA	NA	NA	0.0
Utility Power Purchase (kWh)	216,213	-20,561	256,922	452,574
Cogen Power (kWh)		548,604	411,883	960,487
Natural Gas (Dth)	564	1,241	1,288	3,093
Digester Gas to Engine (scfm)		7,478,094	5,830,014	13,308,108
Digester Gas to Boiler (scfm)		0		0
Digester Gas to Flares (scfm)		167,680	330,001	497,681
Digester Gas Power Savings		\$48,842		

<sup>(1)</sup> The bills to calculate these values are received after this report is prepared for the Board meeting, but will be available upon request at the Board meeting.

NA = Not Available at the time this report was generated.

**Wastewater Unit Definitions** 

kWh = kilowatt hours

Dth = Dekatherms

scfm = standard cubic feet per minute

### Agency Wastewater Flows to SOCWA by Facility (Including Internal Waste Streams Used for Billing)

Agency	CTP		RTP	JBL		Total
	(mgd)	CTP (%)	(mgd)	(mgd)	JBL (%)	(mgd)
CLB	1.804	64.16%				1.80
EBSD	0.060	2.13%				0.06
SCWD	0.948	33.71%		1.907	30.58%	2.85
MNWD	0.000	0.00%	8.46	1.400	22.45%	9.86
CSJC				2.316	37.13%	2.32
SMWD				0.614	9.84%	0.61
Total	2.812	100.00%	8.46	6.236	100.00%	17.51

### **Total Agency Outfall Flows by Outfall System-Billing Flows**

Agency			SJCOO				
	SJCOO	SJCOO	Meter	ACOO	ACOO	Total	
	(mgd)	(%)	(mgd)	(mgd)	(%)	(mgd)	Notes
CLB				1.80	9.81%	1.80	
EBSD				0.06	0.33%	0.06	
SCWD	1.91	10.79%		1.02	5.56%	2.93	Includes Desalters
MNWD	3.24	18.31%		5.88	31.99%	9.12	
ETWD				4.25	23.11%	4.25	Direct Outfall Only
CSJC	2.69	15.23%				2.69	Incudes Desalter
SMWD	5.89	33.33%				5.89	Includes Chiquita
CSC	3.95	22.34%				3.95	Direct Outfall Only
IRWD				5.37	29.20%	5.37	Direct Outfall Only
Total	17.68	100.00%	5.44	18.39	100.00%	36.07	

### FY Flow/Solids Summary-Billing

### Project Committee No. 2 Liquids (JBL)

Agency	Own	Own	Budget	Budget	Month	Month (%)	FY Avg to	FY Avg to
	(mgd)	(%)	(mgd)	(%)	(mgd)(1)		Date (mgd)	Date (%)
CSJC	4.00	30.77%	2.12	31.98%	2.316	37.13%	2.06	35.67%
MNWD	3.00	23.08%	1.40	21.12%	1.400	22.45%	1.40	24.23%
SCWD	3.75	28.85%	1.70	25.64%	1.907	30.58%	1.72	29.83%
SMWD	2.25	17.31%	1.41	21.27%	0.614	9.84%	0.59	10.27%
Total	13.00	100.00%	6.63	100.00%	6.236	100.00%	5.78	100.00%

### **Project Committee No. 2 Solids (JBL)**

Agency	Own (lbs/d)	Own (%)	Budget (lbs/d)	Budget (%)	Month (lbs/d)	Month (%)	36 Month Rol. Avg. (lbs/d) (2)	36 Month Rol. Avg. (%)
CSJC	11,572	30.00%	5,767	24.54%	7,436	34.26%	5,671	26.79%
MNWD	8,340	21.62%	4,396	18.70%	6,596	30.39%	5,539	26.17%
SCWD	7,715	20.00%	5,391	22.94%	4,783	22.04%	5,255	24.83%
SMWD	10,946	28.38%	7,949	33.82%	2,892	13.32%	4,702	22.21%
Total	38,573	100.00%	23,503	100.00%	21,708	100.00%	21,166	100.00%

### **Project Committee No. 5 - Effluent Pumping Station (SJCOO EPS)**

Agency	Own (%)	Variable Budget (mgd)	Variable Budget (%)	Month Outfall Flow (mgd)	Month Outfall Flow (%)	Month EPS Outfall Flow (mgd)	Month EPS Outfall Flow (%)
CSC	16.62%	2.531	21.57%	3.95	22.34%		
CSJC	11.08%	2.348	20.01%	2.69	15.23%	2.32	37.13%
MNWD(3)	15.51%	2.013	17.16%	3.24	18.31%	1.40	22.45%
SCWD	12.47%	1.740	14.83%	1.91	10.79%	1.91	30.58%
SMWD	44.32%	3.101	26.43%	5.89	33.33%	0.61	9.84%
Total	100.00%	11.733	3.10%	17.68	100.00%	6.24	100.00%

- (1) Influent billing meter summary:
  - a. CSJC is metered daily in the collection system. The area-velocity meter has an accuracy of +/- 20%.
  - b. MNWD is assumed to be 1.4 mgd unless Treatment Plant 3A is discharging to the sewer. If other discharges occur, they are estimated.
  - c. SCWD flows are the summation of the DPSD and Victoria PS meters. The two metering systems have an accuracy of +/- 10%.
  - d. The Oso Trabuco sewer is metered daily in the collection system.
    The flows from MNWD are subtracted from the metering data collected to determine SMWD's flows.
    The area velocity metering system in the collection system has an accuracy of +/- 20%.
- (2) The 36-month average is the average of the past 36 months. The Use Audit is based on the last 3 Fiscal Years versus the average of the past 36 months.
- (3) All monthly flow data for 3A is reported as part of MNWD's flow to the ocean outfall. The actual allocation of the flows split between MNWD and SMWD is completed annually during the Use Audit.

Sources: 1) Cost Allocation Methodology for Project Committees, Dudek Engineering 2012.

2) Instructions to SOCWA Staff regarding the constant flow of 1.4 MGD from MNWD and SMWD dated March 2018.

### FY Flow/Solids Summary-Billing (cont'd)

### **Project Committee No. 5 - Outfall (SJCOO)**

Agency	FY Avg Outfall Flow (mgd)	FY Avg Outfall Flow (%)	FY Avg EPS Outfall Flow (mgd)	FY Avg EPS Outfall Flow (%)
CSC	2.739	24.13%		
CSJC	2.445	21.55%	2.06	35.67%
MNWD	2.327	20.50%	1.40	24.23%
SCWD	1.885	16.61%	1.72	29.83%
SMWD	1.953	17.21%	0.59	10.27%
Total	11.349	100.00%	5.78	100.00%

### **Project Committee No. 15 (CTP)**

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CLB	2.54	37.91%	1.770	59.00%	1.804	64.16%	1.584	62.85%
EBSD	0.20	2.99%	0.050	1.67%	0.060	2.13%	0.050	1.97%
SCWD	2.00	29.85%	1.180	39.33%	0.948	33.71%	0.887	35.18%
MNWD	1.96	29.25%	0.000	0.00%	0.000	0.00%	0.000	0.00%
Total	6.70	100.00%	3.000	100.00%	2.812	100.00%	2.521	100.00%

### **Project Committee No. 17 Liquids (RTP)**

Agency	Budget Liquids (mgd)	Budget Liquids (%)	Month Plant Influent (mgd)	Month Centrate (mgd)	Month Total (mgd)(1)	Month Total (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CLB	0.01220	0.157%	0.0000	0.0134	0.0134	0.16%	0.0152	0.19%
EBSD	0.00040	0.005%	0.0000	0.0004	0.0004	0.01%	0.0005	0.01%
SCWD	0.00810	0.104%	0.0000	0.0070	0.0070	0.08%	0.0084	0.11%
ETWD	0.01410	0.181%	0.0000	0.0149	0.0149	0.17%	0.0137	0.18%
MNWD	7.75000	99.553%	8.4607	0.0543	8.5150	99.58%	7.7582	99.52%
Total	7.78480	100.000%	8.4607	0.0900	8.5508	100.00%	7.7960	100.00%

<sup>(1)</sup> Month total does not double count MNWD centrate. It is included in the Monthly Plant Influent too.

### FY Flow/Solids Summary (cont'd)

### **Project Committee No. 17 Solids (RTP)**

Agency					Total	Total	FY Avg	FY Avg
	Own	Own	Budget	Budget	Month	Month	Total to	Total to
	(lbs/d)	(%)	(lbs/d)	(%)	(lbs)	(%)	Date (lbs)	Date (%)
CLB	5,605	11.22%	5,133	12.48%	162,421	14.85%	191,714	16.41%
EBSD	295	0.59%	158	0.38%	5,401	0.49%	6,029	0.52%
SCWD	4,480	8.96%	3,546	8.62%	85,332	7.80%	106,788	9.14%
ETWD	10,200	20.41%	5,755	13.99%	180,749	16.53%	172,845	14.80%
MNWD	29,395	58.82%	26,532	64.52%	659,639	60.32%	690,744	59.13%
Total	49,975	100.00%	41,124	100.00%	1,093,540	100.00%	1,168,119	100.00%

### **Project Committee No. 24 (ACOO)**

Agency	Own (%)	Budget (mgd)	Budget (%)	Month Outfall Flow (mgd)	Month Outfall Flow (%)	FY Avg Outfall Flow (mgd)	FY Avg Outfall Flow (%)
CLB	11.000%	1.89	17.73%	1.804	9.81%	1.584	15.16%
EBSD	0.780%	0.05	0.47%	0.060	0.33%	0.050	0.48%
ETWD	16.302%	2.46	23.08%	4.251	23.11%	2.585	24.73%
IRWD	15.760%	2.48	23.26%	5.370	29.20%	2.927	28.01%
MNWD	43.848%	3.08	28.89%	5.883	31.99%	2.955	28.27%
SCWD	12.310%	0.70	6.57%	1.022	5.56%	0.351	3.35%
Total	100.000%	10.66	100.00%	18.391	0.00%	10.451	100.00%

### **Select Critical Equipment Repairs**

### JBL - PC2

Repaired failed flush water line on the 9-side scum trough.

Cleared clog in 9-side grit cyclone from storms.

Repaired aeration header line leak.

Cleared a giant Rag Ball (debris) clog out of the plant one head works.

Removed faulty TWAS flow meter for cleaning and testing.

Removed failed RAS Pump #7 for a rebuild.

Replaced failed Digester #3 gas mixer.

Replaced failed WAS Pump #3.

SDG&E overnight power outage staffing and support.

Cleared out several grit hoppers that got plugged during the recent storms.

Rebuilt failed Caustic Pump #2.

### CTP - PC15

Worked on failed Aliso Creek Ocean Outfall sampler station.

Worked on clogged AWMA Road storm drains.

Cleaned grit and debris in the Headworks building after the storm.

Replaced failed bearing in Aeration Blower #2.

Replaced failed water line near the West Secondaries.

Replaced failed bleach tubing on the East RAS Bleach system.

Replaced failed bleach transfer pump.

### RTP - PC17

Storm preparations and repairs around the plant.

Worked on setting up a temporary polymer tote system to strain debris in polymer tank.

Replaced transfer joint on Centrifuge #1

Started overhaul of Centrifuge #3.

Repaired air leak on AWT 2 Cell 2 Backwash Valve

Replaced Odor Scrubber 2 Supply Fan that was at the end of its useful life.

Troubleshot Ferric Chloride Pump #2.

Troubleshot Digester Feed Pump #3 leak.

Repaired caustic tank delivery hookups.

Troubleshot Mixing Tank #1 valve air leak.

Troubleshot DAF #2 solids pump failure.

Select Critical Equipment Repairs (cont'd)

### **ELECTRICAL - ALL PC'S**

Assisted contractor with troubleshooting faulty 9-side generator.

Install thermostat to control engine fan for new engine at RTP.

Troubleshot Factory Talk software on Centrifuge #3 at RTP.

Replaced failed exhaust gaskets on new engine at JBL.

Troubleshot nitrate HACH SC200 analyzer at CTP.

Troubleshot faulty AWT sump pump at CTP.

Replaced faulty contacts on JBL's Vulcan Wash Press.

Replaced failed East Grit MOV valves at CTP.

Replaced failed East Grit Tank actuators at CTP.

Troubleshot faulty primary sludge valves at CTP.

Troubleshot faulty primary sludge actuators at CTP.

Troubleshot faulty wiring on sump in decant room at JBL.

Replaced faulty "Float" on Plant #2 Pump Room Sump Pump at JBL.

Troubleshot DAF polymer mix feed pump #2 at RTP.

Replaced failed TWAS Feed Pump #4 at JBL.

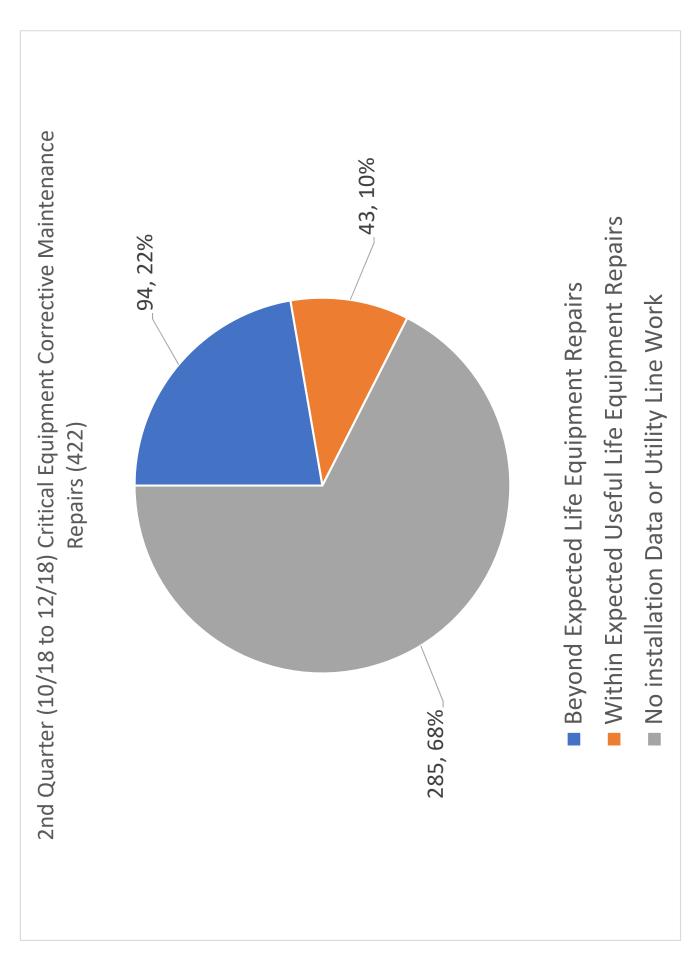
Replaced failed Centrifuge 3 Feed Pump at RTP.

Replaced failed Effluent Pump #2 motor at JBL.

Troubleshot main SCADA screen at RTP.

Troubleshot ultrasonic display for Scrubber 3 Caustic Tank at RTP.

Troubleshot Level Sensor Probe for SET Sump Pump 1 at RTP.



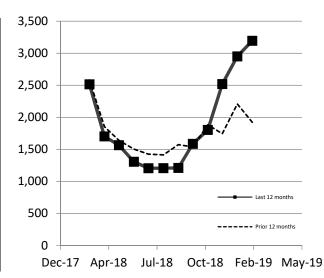
### SOCWA Ocean Outfall Discharges by Agency

### SOCWA Outfall Discharge Report February, 2019

Agency	SJCOO	SJCOO	ACOO		
	(mgd)	(%)	(mgd)	ACOO (%)	Total (mgd)
CLB			1.80	9.81%	1.80
EBSD			0.06	0.33%	0.06
SCWD	1.91	10.79%	1.02	5.56%	2.93
MNWD	3.24	18.31%	5.88	31.99%	9.12
ETWD			4.25	23.11%	4.25
CSJC	2.69	15.23%			2.69
SMWD	5.89	33.33%			5.89
CSC	3.95	22.34%			3.95
IRWD			5.37	29.20%	5.37
Total	17.68	100.00%	18.39	100.00%	36.07
	or Ac	re-Feet per	year equival	ent	40,395

### 12-Month Running Total Discharge to Ocean Outfalls (AF)

Feb-19	3,195
Jan-19	2,950
Dec-18	2,518
Nov-18	1,804
Oct-18	1,587
Sep-18	1,210
Aug-18	1,207
Jul-18	1,205
Jun-18	1,307
May-18	1,564
Apr-18	1,702
Mar-18	2,515
Total	22,764



### Beach / Ocean Monitoring Report

### Aliso Creek Outfall

### ALISO CREEK OCEAN OUTFALL MONITORING REPORT

February 2019

	Rain	Fall	inches		96.0	0.15	1.02	0.20	-			0.30	0.14			0.42	2.65	0.17	0.01	90.0	0.01		0.28								-	 6.37
	ACOO F	FLOW	MGD in	17.867		20.708	21.550	21.009 (	22.094	20.002		16.782 (	16.193	17.163	17.348	17.783 (	20.126	29.118 (				19.751		16.908	16.551	16.837	16.270	11.564	16.412	15.968	15.642	18.391 514.95
SCWD	ACWRF /	_	MGD			0.000			0.000										0.000									0.000	0.000	0.000	0.000	0.000
IRWD	sgu	FLOW	MGD								0.616	0.633	0.612	0.611	0.658				0.392				0.630	0.621	0.620	0.618	0.617	0.618	0.617	0.617	0.616	0.568
IRWD	IDP	FLOW	MGD	-							0.376			0.376					0.377							0.377			0.377	978.0		0.371
		SS	m//F	0.1			0.1	0.1	0.1	0.1	0.1			_		0.1						_	0.1	0.1	<b>6</b> 0.1			<b>6</b> 0.1	0.1	<b>6</b> 0.1	<b>6</b> 0.1	<0.1
⋖	<sup>2</sup> LANT	cBOD	mg/L	4.0		3.0	7.0	2.0	4.0	2.0	4.0		11.0	11.0	8.0	2.0			0.9		7.0	8.0	0.9	4.0	4.0		12.0	10.0	7.0	3.0	4.0	6.2
SOCWA	COASTAL PLANT	TSS	mg/L			3.0	9.3	6.7	4.7	6.9	2.1		19.4	6.6	6.6	6.5		2.8	10.3	7.1	8.3	9.7	6.7	5.1	7.1		26.6	13.6	8.5	2.1	5.1	8.2
	CO	FLOW	MGD		2.579	3.141	2.902	3.180	2.919	2.725	2.698	2.633	2.801	2.741	2.712	2.613	2.812	5.090	3.324	3.124	2.920	2.837	2.727	2.824	2.730	2.709	2.735	2.745	2.673	2.642	2.628	2.887 80.83
	_	SS	ml/L	0.1		0.2	0.1	0.1	0.2	0.1	0.1		0.1	0.1	0.2	0.1	0.4	<b>1</b> .0		0.1	0.1	0.2	0.2	0. 1.	0.2		0.1	0.3	0.2	0.3	0.2	<0.2
A	PLAN	cBOD	mg/L	3.0		3.0	4.0	2.0	2.0	2.0	4.0		3.0	4.0	2.0	3.0	2.0	3.0		2.0	3.0	2.0	2.0	4.0	3.0		11.0	3.0	2.0	2.0	2.0	3.4
SOCWA	REGIONAL PLANT	TSS	mg/L	9.9		5.1	5.8	4.2	5.4	5.3	7.7		5.1	7.9	4.1	8.7	2.0	7.0		2.7	6.2	10.2	12.5	10.4	6.4		6.5	5.9	2.7	5.5	9.9	6.5
	REG	FLOW	MGD	4.970	4.59	6.520	6.720	7.080	8.390	8.610	3.890	4.950	5.520	5.730	000.9	4.990	6.630	12.030	7.710	6.540	5.980	6.190	5.590	5.150	5.480	5.140	5.280	0.570	5.080	4.690	4.710	5.883 164.73
		SS	ml/L	<0.1			<u></u>	0.1	0.2	0.2	0.1			-0. -	<b>-</b> 0.1	<b>1</b> .0×	0.1	0.3			0.1	<b>6</b> 0.1	9	<b>-</b> 0.1	0.1			0. 1.	<0.1	0. 1.	-0. -	 <0.1
	WRP	cBOD	mg/L			10.2	9.5	11.5	11.0	12.2			9.9	9.5	9.7	8.1	20.0			7.4	9.5	8.5	8.0	9.5			8.8	6.5	0.9	5.9	8.9	9.2
	TORO	TSS cBOD	mg/L			13.6	12.6	15.6	14.6	15.8			7.8	11.0	8.8	8.6	72.4			8.8	10.4	11.2	9.4	11.2			9.5	8.9	6.5	6.2	9.6	13.6
	П	FLOW	MGD		4.250	4.510	4.676	3.514	4.361	4.484	3.815	3.941	3.134	3.922	3.864	4.247	5.033	4.884	5.642	5.268	4.898	5.627	5.544	3.681	3.823	4.064	3.993	2.982	3.820	3.550	3.800	4.251 119.03
	0	SS	ml/L	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3				<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3		 <0.3
	SWR	cBOD	mg/L	4.6		8.8	5.4	3.9	4.0	5.3	4.0		4.2	4.2	3.8	4.4	4.2	3.5		4.2	3.7	5.4	3.7	5.4	5.5		5.9	0.9	6.5	6.9	7.2	4.9
IRWD	ALISOS WRP		mg/L	10.0	11.0	11.0	16.0	12.0	11.0	10.0	8.6	9.8	8.5	8.6	9.3	13.0	14.0	12.0	9.7	12.0	16.0	26.0	14.0	16.0	13.0	18.0	12.0	16.0	17.0	14.0	13.0	12.9
	ros	FLOW	MGD		6.025	2.767	6.343	6.329	5.518	3.280	3.630	4.249	3.750	3.783	3.737	4.879	4.612	6.340	4.351	4.154	3.339	4.123	3.487	4.255	3.522	3.929	3.268	4.273	3.845	4.093	3.511	4.431 124.07
			DATE	02/01/19	02/02/19	02/03/19	02/04/19	02/05/19	02/06/19	02/07/19	02/08/19	02/09/19	02/10/19	02/11/19	02/12/19	02/13/19	02/14/19	02/15/19	02/16/19	02/17/19	02/18/19	02/19/19	02/20/19	02/21/19	02/22/19	02/23/19	02/24/19	02/25/19	02/26/19	02/27/19	02/28/19	AVG TOTAL

## South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: February 2019

As specified in Unified Monitoring Plan

Monthly

SAMPLES COLLECTED BY: SOCWA Lab SAMPLES ANALYZED BY: SOCWA Lab

REPORT FREQUENCY: EXACT SAMPLE POINTS:

REPORT DUE: April 1 2019

SAMPLE SOURCE: Surf zone

TYPE OF SAMPLE: Grab

Tidal Condition: High Tide 846

Weather: Overcast

COMMENTS:

Total Fecal Entero-Coliform Coliform coccus Material of Sewage

STA#         DATE         TIME         SM9222B         SM9222D         FPA 1600         Onshore         Offshore         Grease         Odor         Temp(F         Condition         Water         Water         HZD         Temp(F         Condition         Water         Male           S3         02/05/19         745         140         40         70         None         None         None         Green         Goen         Clear         Flowing         Birds           S4         02/05/19         745         140         40         70         None         None         None         Green         Green         Goen         Clear         Flowing           S5         02/05/19         350         140         40         70         None         None         None         Green         Green         Clear         Flowing         None           WEST         02/05/19         350         21/00         410         790         None         None         None         Green         Green         Clear         Flowing           S6         02/05/19         340         410         790         None         None         Green         Green         Clear         Flowing         Clea									-					
DATE         TIME         SM9222B         SM9222D         EPA 1600         Onshore         Offshore         Grease         Odor         Temp(F         Condition           02/05/19         745         140         40         70         None         None         None         None         Green         Green <td< th=""><th></th><th>Birds</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></td<>		Birds												
DATE         TIME         SM9222B         SM9222D         EPA 1600         Onshore         Offshore         Grease         Odor         Color         Temp(F and F	Water	Outlet	Flowing	1							Flowing	1		
DATE         TIME         SM9222B         SM9222D         EPA 1600         Onshore         Offshore         Grease         Odor         Color           02/05/19         745         140         40         70         None         None         None         Green           02/05/19         745         140         400         86         None         None         None         Green           02/05/19         950         160         130         100         None         None         None         Green           02/05/19         926         220         60         100         None         None         None         Green           02/05/19         926         220         60         100         None         None         None         Green           02/05/19         926         210         40         88         None         None         None         Blue           02/05/19         91         200         70         94         None         None         None         Brown           02/05/19         92         2,100         410         790         None         None         None         Brown           02/05/19         84 </td <td>Water</td> <td>Condition</td> <td>Clear</td> <td>Clear</td> <td>Clear</td> <td>Clear</td> <td>Clear</td> <td>Clear</td> <td>Clear</td> <td>Clear</td> <td>Turbid</td> <td>Slightly Turbid</td> <td>Clear</td> <td>Clear</td>	Water	Condition	Clear	Turbid	Slightly Turbid	Clear	Clear							
DATE         TIME         SM9222D         EPA 1600         Onshore Offshore Grease         Odor           02/05/19         745         140         40         70         None         None         None         None           02/05/19         950         160         130         100         None         None         None         None           02/05/19         926         240         40         70         None         None         None           02/05/19         926         220         60         100         None         None         None           02/05/19         926         230         70         94         None         None         None           02/05/19         926         2,100         70         94         None         None         None           02/05/19         915         2,100         70         94         None         None         None           02/05/19         92         2,100         410         790         None         None         None           02/05/19         94         80         10         790         None         None         None      <	H20	Temp(F	09											
DATE         TIME         SM9222B         SM9222B         SM9222B         CFU/100ml CFU/100ml         CFU/100ml CFU/100ml         Origin         OII &           02/05/19         745         140         40         70         None         None         None           02/05/19         950         160         130         100         None         None         None           02/05/19         926         220         60         100         None         None         None           02/05/19         926         220         60         100         None         None         None           02/05/19         926         220         60         100         None         None         None           02/05/19         926         2,100         70         94         None         None         None           02/05/19         926         2,100         410         790         None         None         None           02/05/19         848         >20,00         3,400         790         None         None         None           02/05/19         840         80         10         20	Water	Color	Green	Green	Green	Green	Green	Green	Blue	Green	Brown	Brown	Green	Green
CFU/100ml CFU/100ml CFU/100ml         CFU/100ml CFU/100ml         CFU/100ml<		Odor	None	None	None									
CFU/100ml CFU/100ml           DATE         TIME         SM9222B         SM9222D         EPA 1600           02/05/19         745         140         40         70           02/05/19         760         160         70         70           02/05/19         950         160         130         100           02/05/19         926         220         60         100           02/05/19         926         310         40         88           02/05/19         915         220         60         100           02/05/19         915         220         70         94           02/05/19         915         2,100         70         94           02/05/19         965         2,100         70         94           02/05/19         965         2,100         3,400         790           02/05/19         848         >20,000         3,400         790           02/05/19         846         80         10         30           02/05/19         815         80         <10	Oil &			None	None	None								
CFU/100ml CFU/100ml           DATE         TIME         SM9222B         SM9222D         EPA 1600           02/05/19         745         140         40         70           02/05/19         760         160         70         70           02/05/19         950         160         130         100           02/05/19         926         220         60         100           02/05/19         926         310         40         88           02/05/19         915         220         60         100           02/05/19         915         220         70         94           02/05/19         915         2,100         70         94           02/05/19         965         2,100         70         94           02/05/19         965         2,100         3,400         790           02/05/19         848         >20,000         3,400         790           02/05/19         846         80         10         30           02/05/19         815         80         <10	nig	Offshore	None	None	None									
CFU/100ml CFU/100ml           DATE         TIME         SM9222B         SM9222D         EPA 1600           02/05/19         745         140         40         70           02/05/19         760         160         70         70           02/05/19         950         160         130         100           02/05/19         926         220         60         100           02/05/19         926         310         40         88           02/05/19         915         220         60         100           02/05/19         915         220         70         94           02/05/19         915         2,100         70         94           02/05/19         965         2,100         70         94           02/05/19         965         2,100         3,400         790           02/05/19         848         >20,000         3,400         790           02/05/19         846         80         10         30           02/05/19         815         80         <10	Öriç	Onshore	None	None	None									
CFU/100mI CFU/100mI           DATE         TIME         SM9222B         SM9222D           02/05/19         745         140         40           02/05/19         950         160         400           02/05/19         950         240         40           02/05/19         925         220         60           02/05/19         926         310         40           02/05/19         915         200         70           02/05/19         965         2,100         410           02/05/19         848         >20,000         3,400           02/05/19         848         >20,000         3,400           02/05/19         848         >20,000         3,400           02/05/19         848         >20,000         3,400           02/05/19         815         80         10	CFU/100ml	EPA 1600	70	98	100	70	100	88	94	790	790	30	20	22
DATE TIME 02/05/19 745 02/05/19 1010 02/05/19 950 02/05/19 925 02/05/19 925 02/05/19 926 02/05/19 948 02/05/19 848 02/05/19 848		SM9222D	40	400	130	40	09	40	20	410	3,400	10	<10	70
DATE 02/05/19 02/05/19 02/05/19 02/05/19 02/05/19 02/05/19 02/05/19 02/05/19 02/05/19	CFU/100ml		140	300	160	240	220	310	200	2,100	>20,000	80	80	200
		TIME	745	1010	950	930	925	920	915	902	848	840	815	805
STA# S3 S4 S5 S6 WEST S7 S8 S9 ACM1 S10		DATE	02/05/19	02/05/19	02/05/19	02/05/19	02/05/19	02/05/19	02/05/19	02/05/19	02/05/19	02/05/19	02/05/19	02/05/19
		STA#	S3	S4	S2	9S	WEST	S7	88 88	83	ACM1	S10	S11	S12

RECREATIONAL WATER LIMITATIONS:Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

February 2019 REPORT FOR:

April 1, 2019 REPORT DUE:

SAMPLES COLLECTED BY:SOCWA Lab Receiving water surf zone SAMPLE SOURCE:

As specified in Unified Monitoring Plan

EXACT SAMPLE POINTS:

REPORT FREQUENCY:

Monthly

SAMPLES ANALYZED BY: SOCWA Lab

Grab TYPE OF SAMPLE: Tidal Condition: High Tide 459

Weather: Clear

COMMENTS: Rain on 14th

Slightly Turbid Slightly Turbid Condition Water Turbid Clear Clear Clear Clear Clear Clear Clear Clear Clear Temp(F H20 9 Water Green Green Green Brown Green Color Green Green Green Green Green Green Blue None None Odor None None None None None None None None None Grease Oii & None Material of Sewage Onshore Offshore None Origin None Vone None CFU/100ml CFU/100ml CFU/100ml **EPA 1600** coccus Entero-001 200 200 200 200 500 700 200 100 90 SM9222D Coliform Fecal <100 <100 <100 <100 <100 ×100 100 200 100 400 300 100 SM9222B Coliform Total 000, 000, 2,000 2,000 <100 200 500 400 300 200 400 TIME 1040 1020 1000 950 945 805 900 935 920 955 830 750 02/15/19 02/15/19 02/15/19 02/15/19 02/15/19 02/15/19 02/15/19 02/15/19 02/15/19 02/15/19 02/15/19 02/15/19 DATE WEST S7 S8 ACM1

Birds

Water Outlet Flowing

Flowing

Flowing

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed

400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

**S**5 \$4

## South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: February 2019

REPORT DUE: April 1, 2019

SAMPLES COLLECTED BY SOCWA Lab Receiving water surf zone SAMPLE SOURCE:

As specified in Unified Monitoring Plan

REPORT FREQUENCY: EXACT SAMPLE POINTS:

Monthly

SAMPLES ANALYZED BY: SOCWA Lab

TYPE OF SAMPLE: Grab

Tidal Condition: High Tide 904

Weather: Partly Cloudy

COMMENTS:

Total Fecal Entero-

Coliform Coliform coccus Material of Sewage

	Birds												
Water	Outlet									Flowing			
Water	Condition	Clear	Slightly Turbid	Slightly Turbid	Clear	Clear	Clear						
H20	Temp(F)	09											
Water	Color	Green	Green	Green	Green	Green	Green	Blue	Green	Green	Green	Green	Green
	Odor	None	None	None	None	None							
⊗ E O	Grease	None	None	None	None	None							
gin	Onshore Offshore	None	None	None	None	None							
Origin	Onshore	None	None	None	None	None							
CFU/100ml	EPA 1600	80	10	\$	<2	4	80	10	9	2	2	130	2
CFU/100ml CFU/100ml	SM9222D	<10	<10	<10	<10	<10	<40	<10	20	10	10	10	<10
CFU/100ml	SM9222B	10	30	<10	<10	10	40	10	340	>=530	20	<10	<10
	TIME	740	1005	950	940	935	930	925	915	006	835	815	805
	DATE	02/20/19	02/20/19	02/20/19	02/20/19	02/20/19	02/20/19	02/20/19	02/20/19	02/20/19	02/20/19	02/20/19	02/20/19
	STA#	S3	S4	S2	98	WEST	S7	88	6S	ACM1	S10	S11	S12

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed

### Unified Beach Monitoring

#4

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

February 2019 April 1, 2019 REPORT FOR: REPORT DUE:

SAMPLE SOURCE:

SAMPLES COLLECTED BY: SOCWA Lab Receiving water surf zone

As specified in Unified Monitoring Plan

**EXACT SAMPLE POINTS:** 

REPORT FREQUENCY:

Monthly

SAMPLES ANALYZED BY: SOCWA Lab

Fidal Condition: High Tide 442

Grab

TYPE OF SAMPLE:

Weather: Overcast

COMMENTS:

0.0

Birds

Water Outlet

Slightly Turbid Condition Water Clear Temp(F) H20 59 Water Color Green Green Green Green Green Green Green Green Green Blue Green None None None Odor None None None None None None None None Grease Oii & None Onshore Offshore Material of Sewage None Origin None CFU/100ml CFU/100ml CFU/100ml **EPA 1600** coccus Entero-SM9222D Coliform Fecal 410 <10 <10 <10 4 20 30 SM9222B Coliform Total 410 8 TIME 1015 745 920 910 850 830 815 900 955 930 925 02/28/19 02/28/19 02/28/19 02/28/19 02/28/19 02/28/19 02/28/19 02/28/19 02/28/19 02/28/19 02/28/19 DATE WEST ACM1 STA# S11 SS S

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

Green

None

None

None

Flowing

800

02/28/19

S3 S5 S6 S6

S7

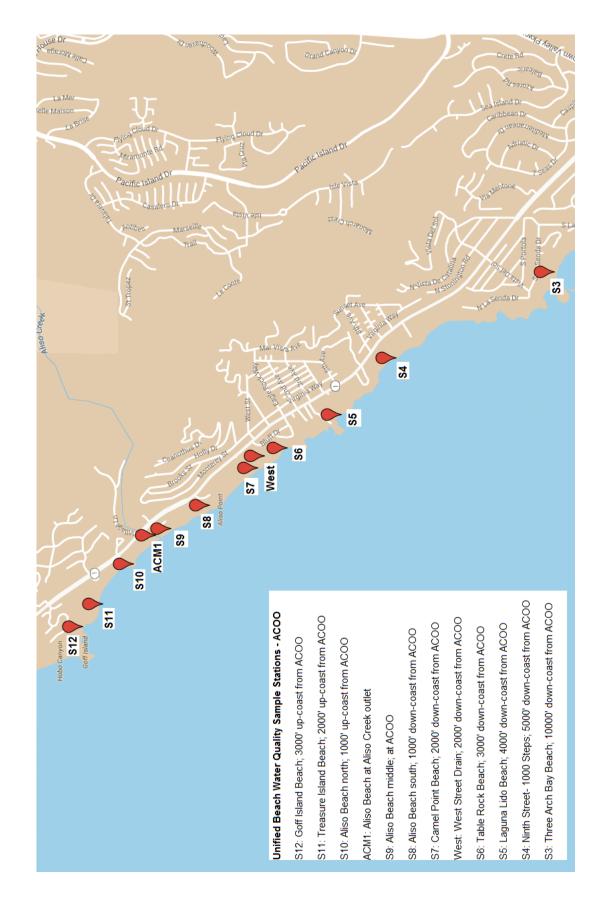
### Aliso Creek Ocean Outfall

### Unified Beach Water Quality Monitoring Stations

SOCWA's NPDES discharge permit requires participation in the South Orange County Unified Beach Water Quality Monitoring Program. The monitoring stations below are tested by SOCWA at least once per week for Total and Fecal Coliform and Enterococcus Bacteria.

Station	Location
S3	Three Arch Bay Beach; 10,000' down-coast from ACOO
S4	Ninth Street-1000 Steps; 5,000' down-coast from ACOO
S5	Laguna Lido Beach; 4,000 down-coast from ACOO
West	West Street Drain; 2,000' down-coast from ACOO
S6	Table Rock Beach; 3,000' down-coast from ACOO
S7	Camel Point Beach; 2,000' down-coast from ACOO
S8	Aliso Beach south; 1,000' down-coast from ACOO
S9	Aliso Beach middle; at ACOO
ACM1	Aliso Beach at Aliso Creek Outlet
S10	Aliso Beach north; 1,000' up-coast of ACOO
S11	Treasure Island Beach; 2,000' up-coast of ACOO
S12	Goff Island Beach; 3,000' up-coast of ACOO

Unified Beach Water Quality Sample Station Map - Aliso Creek Ocean Outfall



### MONITORING REPORT

### Off Shore Stations

South Orange County Wastewater Authority

DISCHARGE: Aliso Creek Ocean Outfall REPORT FOR: February 2019

REPORT DUE: April 1, 2019

SAMPLE SOURCE: Receiving water, nearshore and offshore

EXACT SAMPLE POINTS: As specified in permit

SAMPLES COLLECTED BY: Seaventures/SOCWA staff

SAMPLES ANALYZED BY: SOCWA Lab

Comments: Low Tide 1033

REPORT FREQUENCY: Monthly

SAMPLING FREQUENCY: Monthly

TYPE OF SAMPLE: Grab

			Total	Fecal	Entero-				0 - None
Sta	Sample	Comple	CELI/100ml	Coliform CFU/100ml	COCCUS	Cample	Oil &	Cowogo	1 - Mild 2 - Moderate
No.	Depth	Date	SM9222B	SM9222D	EPA 1600	Time	Grease	Debris	3 - Severe
									3 - Severe
A-1	Surface	02/13/19	<2	<2	<2	802	0	0	
A-1	Mid depth	02/13/19	180	180	10				
A-2	Surface	02/13/19	<2	<2	<2	750	0	0	
A-2	Mid depth	02/13/19	<10	<10	<10				
A-3	Surface	02/13/19	<2	<2	<2	755	0	0	
A-3	Mid depth	02/13/19	40	10	10				
A-4	Surface	02/13/19	<2	<2	<2	806	0	0	
A-4	Mid depth	02/13/19	40	50	10				
A-5	Surface	02/13/19	<2	<2	<2	758	0	О	
A-5	Mid depth	02/13/19	80	70	<10				
B-1	Surface	02/13/19	<2	<2	<2	742	0	0	
B-1	Mid depth	02/13/19	<10	<10	<10				
B-2	Surface	02/13/19	<2	<2	<2	814	0	0	
B-2	Mid depth	02/13/19	<10	<10	<10				
N1	Surface	02/13/19	6	<2	<2	828	0	0	
N2	Surface	02/13/19	<2	<2	<2	826	0	0	
N3	Surface	02/13/19	12	<2	4	825	0	0	
N4	Surface	02/13/19	4	6	<2	824	0	0	
N5	Surface	02/13/19	4	<2	4	823	0	0	
N6	Surface	02/13/19	6	4	<2	822	0	0	
N7	Surface	02/13/19	<2	<2	<2	821	0	0	

REQUIREMENT: (1) Floating particulates and grease and oil shall not be visible. (2) The discharge of wasteshall not cause aesthetically undesireable discoloration of the ocean surface.

### Compliance Summary Report Aliso Creek Ocean Outfall 2019

	Potential Fine	
	Reported Value	
	Permit Limit	
2-0013	Units	ing period.
ACOO Permit Order No. R9-2012-0013	Effluent Limit Violation	No violations during this reporting period.
ACOO P	Constituent	No violat
	Violation Date	
	Agency - Facility	

Section

### Order No. R9-2012-0013 ~ NPDES Permit No. CA0107611 SOCWA and MEMBER AGENCY FACILITIES ACOO Spill / Overflow Report Log - 2019

Date Resolved			
Date Reported To State			
Receiving Waters			
Location/Comments	No spills during this monitoring period.		
Type of Discharge			
Estimated Volume (Gallons)			
Responsible Agency	, ,		
Reporting Agency	, ,		

### San Juan Creek Outfall

## SAN JUAN CREEK OCEAN OUTFALL MONITORING REPORT

February 2019

	Rain	Fall	nches		96.0	0.15	1.02	02.0	-	-		0.30	0.14	-		0.42	2.65	0.17	0.01	90.0	0.01		0.28									 6.37
	_	_			14.830	21.640 (	19.440	21.590	19.000	17.200	17.560	16.460	18.600	19.380	18.710	18.170	24.270	34.440	22.910		19.860	20.290	18.650 (	19.990	19.820	17.240	16.570	17.450	18.240	14.120	13.240	
			-																												<u>`</u>	 w 536
SCWD	Desalter	FLOW	MGD	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow	No Flow 19.173 No Flow 536.840
CSJC	Desalter	FLOW	MGD	0.000	0.000	0.000	0.000	0.235	0.526	0.520	0.497	0.509	0.506	0.465	0.433	0.428	0.427	0.422	0.412	0.450	0.451	0.459	0.461	0.455	0.312	0.442	0.442	0.377	0.441	0.437	0.436	0.377
			ml/L	0.1			0.1	0.1	0.3	9.0	1.5			<0.1	<0.1	<0.1	<0.1	<0.1			<0.1	<0.1	<0.1	<0.1	<0.1			<0.1	<0.1	0.1	<0.1	<0.2
	ANT	cBOD	mg/L	5.0			14.0	14.0	4.0	4.0	15.0			15.0	13.0	0.9	5.0	3.0			15.0	13.0	0.9	5.0	0.9			12.0	12.0	9.0	4.0	9.0
			mg/L	7.0			0.9	5.0	4.0	7.0	26.0			5.0	7.0	5.0	0.9	5.0			4.0	7.0	0.6	4.0	3.0			8.0	10.0	12.0	2.0	7.3
		FLOW	MGD	1.775	1.598	2.453	2.320	2.344	0.414	0.075	1.486	1.808	2.014	1.009	1.050	1.878	2.504	3.323	2.258	2.122	2.002	2.104	1.882	1.951	1.828	1.815	1.897	2.027	1.878	1.820	1.810	1.837 51.445
	VRP	SS	mI/L	<u>^0.</u>			0.1	<b>1</b> .0×	<b>1</b> .0×	<b>1</b> .0	0.1			<b>~</b> 0.1	×0.1	×0.1	4.5	×0.1			<0.1	<b>^</b> 0.1	0.3	4.0	<b>^</b> 0.1			0.1	3.5	0.3	<0.1	<0.5
	CHIQUITA WRP	cBOD	mg/L	5.6			16.0	12.5	2.5	3.2	3.8			16.0	14.2	2.0	4.8	27.5			15.8	14.5	4.7	7.1	3.0			13.0	12.2	3.9	3.8	9.3
	CHIQ		mg/L	2.8			6.7	9.9	2.0	5.6	3.7			4.9	0.9	8.9	6.4	116.0			5.6	2.3	8.3	14.3	<del>د</del> .			10.4	9.8	8.0	7.0	11.9
	SMWD	FLOW	MGD	2.770	4.990	4.420	5.380	5.940	5.150	4.570	3.100	4.530	5.480	5.140	5.120	069.9	9.790	6.790	6.040	5.790	5.750	5.260	5.590	6.210	4.450	3.350	4.740	5.500	4.900	5.190	5.150	5.278
	/RP	SS	ml/L	<u>^0.</u>			<b>6</b> 0.1	<u>^0</u>	<b>6</b> 0.1	<b>6</b> 0.1	<b>6</b> 0.1			<b>6</b> 0.1	<0.1	<0.1	<b>~</b> 0.1	×0.1			<b>~</b> 0.1	<b>6</b> 0.1	<b>~</b> 0.1	×0.1	<b>6</b> 0.1			<u>~0.1</u>	<b>4</b> 0.1	<b>~</b> 0.1	<u>~0.1</u>	<0.1
	LEMENTE WRP	cBOD	mg/L	0.9			8.0	7.0	8.0	8.0	0.9			8.0	7.0	5.0	2.0	5.0			7.0	7.0	5.0	4.0	4.0			8.0	4.0	0.9	2.0	6.2
	LEME		mg/L	8.2			8.6	7.7	6.3	9.9	5.9			8.0	8.9	8.9	1.1	8.1			12.3	9.1	7.2	8.8	4.7			8.	7.0	8.7	2.7	7.8
	SAN CI	FLOW	MGD	3.805	3.129	4.880	4.211	4.480	3.871	3.920	3.553	3.420	3.830	2.925	4.820	3.350	4.760	6.510	3.920	4.210	4.000	3.950	3.760	4.080	3.700	3.520	3.800	3.750	3.630	3.680	3.080	3.948
	≥	SS	mI/L	<0.1			0.1	0.1	0.5	0.1	0.1			0.1	0.1	0.2	2.0	<0.1			0.1	<0.1	0.1	<0.1	0.1			0.1	0.1	0.2	0.2	<0.2
	J.B. LATHAM FACILITY	cBOD	mg/L	9.7		10.3	8.8	6.5	8.9	11.9	8.4		7.2	8.9	9.5	4.6	5.3	8.5		4.5	4.9	10.8	7.0	0.9	10.2	8.0	12.5	13.7	9.4	9.7	5.8	8.2
	ATHAN	TSS	mg/L	11.2		9.6	9.5	6.7	10.0	14.2	11.7		6.2	4. 1	13.0	7.7	6.7	13.9		5.4	5.9	16.5	6.6	10.3	15.1	10.4	15.0	14.4	12.5	9.7	9.5	10.6
	J.B.L	FLOW	MGD	6.120	5.800	8.110	7.190	7.600	7.110	6.400	6.210	5.940	6.130	0.009	5.990	5.720	8.020	12.300	7.700	6.950	6.510	0.560	6.260	6.280	6.100	0.00	6.100	5.930	6.020	5.590	5.860	6.666 186.640
			DATE	02/01/19	02/02/19	02/03/19	02/04/19	02/02/19	02/06/19	02/07/19	02/08/19	02/09/19	02/10/19	02/11/19	02/12/19	02/13/19	02/14/19	02/15/19	02/16/19	02/17/19	02/18/19	02/19/19	02/20/19	02/21/19	02/22/19	02/23/19	02/24/19	02/25/19	02/26/19	02/27/19	02/28/19	AVG

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: February 2019

REPORT DUE: April 1, 2019

As specified in Unified Monitoring Plan

Monthly

SAMPLES COLLECTED BY:SOCWA Lab SAMPLES ANALYZED BY: SOCWA Lab

REPORT FREQUENCY: EXACT SAMPLE POINTS:

SAMPLE SOURCE: Receiving water surf zone TYPE OF SAMPLE: Grab

Tidal Condition: High Tide 948

Weather: Clear

COMMENTS:

Total Fecal Entero-

Coliform coccus Material of Sewage

Birds

			CFU/100ml	CFU/100ml CFU/100ml CFU/100ml	CFU/100ml	Ö	Origin	Oii &		Water	H20	Water	Water
STA#	DATE	TIME	SM9222B SM	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F	Condition	Outlet
S0	02/07/19	950	009	300	006	None	None	None	None	Brown		Slightly Turbid	
S		1000	200	100	300	None	None	None	None	Green	61	Slightly Turbid	
S2		930	>=700	80	300	None	None	None	None	Brown		Slightly Turbid	
DSB5		902	2,000	800	100	None	None	None	None	Brown		Turbid	Flowing
S3		1010	200	20	100	None	None	None	None	Green		Slightly Turbid	
DSB4		1020	200	09	100	None	None	None	None	Green		Slightly Turbid	
S5		1030	100	20	09	None	None	None	None	Green		Slightly Turbid	
DSB1		1035	200	20	40	None	None	None	None	Green		Slightly Turbid	
SJC1		940	1,000	1,000	3,000	None	None	None	None	Brown		Turbid	Flowing

RECEIVING WATER LIMITATIONS:Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

# South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: February 2019

REPORT DUE: April 1, 2019

As specified in Unified Monitoring Plan

Monthly

SAMPLES COLLECTED BY:SOCWA Lab SAMPLES ANALYZED BY: SOCWA Lab

EXACT SAMPLE POINTS:

REPORT FREQUENCY:

SAMPLE SOURCE: Receiving water surf zone

TYPE OF SAMPLE: Grab

Tidal Condition: low tide 858

Weather: Partly Cloudy

COMMENTS:

Total Fecal Entero-

Coliform coccus Material of Sewage

Birds

	Temp(F Condition Outlet	58 Turbid	Turbid	Turbid	Turbid	58 Turbid	Turbid	Turbid
Water	Color	Brown	Brown	Brown	Brown	Brown	Brown	Brown
	Odor	None	None	None	None	None	None	None
Oil &	Grease	None	None	None	None	None	None	None
nig	Offshore	None	None	None	None	None	None	None
Origin	Onshore	None	None	None	None	None	None	None
CFU/100ml	EPA 1600	40	34	760	300	09	30	10
CFU/100ml CFU/100ml CFU/100ml	SM9222D	20	<20	380	09	<20	<20	<20
CFU/100ml	TIME SM9222B SI	<20	40	420	40	40	20	<20
U	TIME	912	920	855	840	925	927	935
	DATE	02/12/19			02/12/19			
	STA#	S0	S	S2	DSB5	S3	DSB4	S2

RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

200

# South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: February 2019

REPORT DUE: April 1, 2019

SAMPLES COLLECTED BY:SOCWA Lab Receiving water surf zone SAMPLE SOURCE:

As specified in Unified Monitoring Plan

REPORT FREQUENCY: EXACT SAMPLE POINTS:

Monthly

SAMPLES ANALYZED BY: SOCWA Lab

TYPE OF SAMPLE: Grab

Tidal Condition: High Tide 951

Weather: Partly Cloudy

COMMENTS:

Total Fecal Entero-

Coliform coccus Material of Sewage

	Birds									
Water	Outlet									Flowing
Water	Condition	Turbid	Turbid	Turbid	Turbid	Turbid	Turbid	Turbid	Turbid	Turbid
H20	Temp(F	19								
Water	Color	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown	Brown
	Odor	None	None	None	None	None	None	None	None	None
Oil &	Grease	None	None	None	None	None	None	None	None	None
jin	Offshore	None	None	None	None	None	None	None	None	None
Origin	Onshore	None	None	None	None	None	None	None	None	None
CFU/100ml	EPA 1600	300	400	80	200	300	400	400	300	1,000
CFU/100ml	SM9222D	40	200	100	200	100	80	100	100	009
CFU/100ml CFU/100m	TIME SM9222B SM9222D	>=1,000	>=200	300	2,000	>=200	200	>=700	>=400	>=2,000
	TIME	840	845	815	800	850	855	902	915	825
	DATE	02/21/19			02/21/19					02/21/19
	STA#	S0	S	S2	DSB5	S3	DSB4	SS	DSB1	ပ

RECEIVING WATER LIMITATIONS:Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

### Unified Beach Monitoring

#

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

February 2019 REPORT FOR:

April 1, 2019 REPORT DUE:

As specified in Unified Monitoring Plan SAMPLES COLLECTED BY SOCWA Lab EXACT SAMPLE POINTS: Receiving water surf zone SAMPLE SOURCE:

Grab TYPE OF SAMPLE:

SAMPLES ANALYZED BY: SOCWA Lab

Monthly

REPORT FREQUENCY:

Tidal Condition: low tide 954

Weather: Partly Cloudy

COMMENTS:

Entero-Fecal Total Material of Sewage coccus Coliform Coliform

2 W. + + 001/1004 001/100

	Birds									200
Water	Outlet									Flowing
Water	Condition	Turbid								
H20	Temp(F	28				28				
Water	Color	Brown								
	Odor	None								
Oil &	Grease	None								
Origin	Offshore	None								
Ö	Onshore	None								
CFU/100ml	EPA 1600	480	52	20	20	10	20	\$	\$	600
CFU/100ml	SM9222D	100	20	20	09	<20	<20	20	<20	200
CFU/100ml CFU/100ml	SM9222B	280	40	20	200	20	20	<20	<20	1,200
	TIME	930	940	855	850	945	946	955	929	925
	DATE	02/26/19	02/26/19	02/26/19	02/26/19	02/26/19	02/26/19	02/26/19	02/26/19	02/26/19
	STA#	80	S1	S2	DSB5	S3	DSB4	S2	DSB1	5

RECEIVING WATER LIMITATIONS:Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

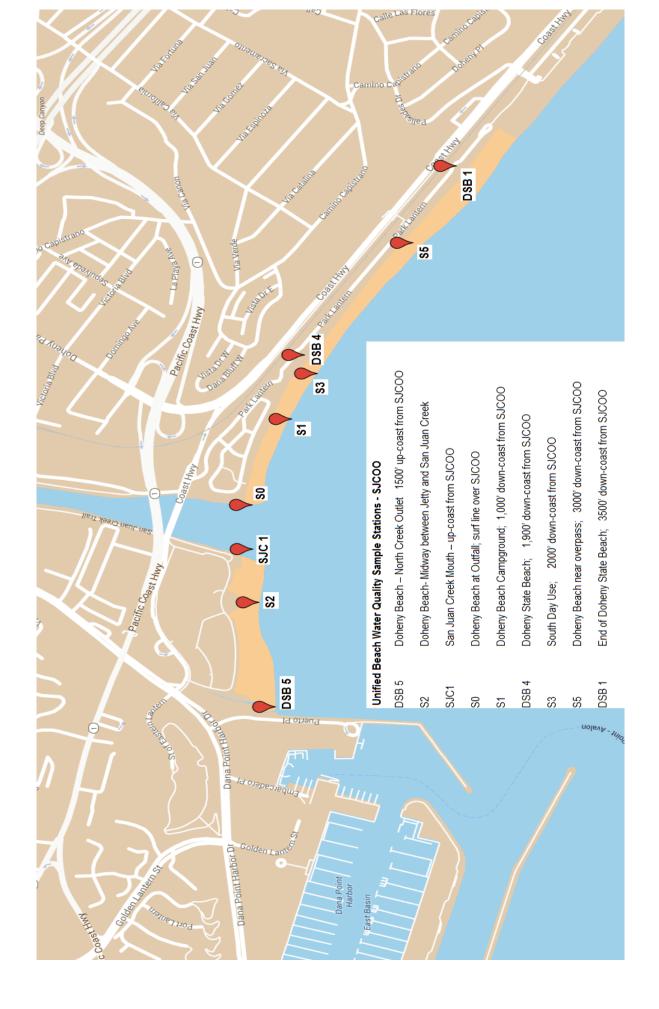
68

### San Juan Creek Ocean Outfall

### Unified Beach Water Quality Monitoring Stations

SOCWA's NPDES discharge permit requires participation in the South Orange County Unified Beach Water Quality Monitoring Program. The monitoring stations below are tested by SOCWA at least once per week for Total and Fecal Coliform and Enterococcus Bacteria.

Station DSB 5	Location  Doheny Beach – North Creek Outlet 1500' up-coast from SJCOO
S2	Doheny Beach- Midway between Jetty and San Juan Creek
SJC1	San Juan Creek Mouth – up-coast from SJCOO
S0	Doheny Beach at Outfall; surf line over SJCOO
S1	Doheny Beach Campground; 1,000' down-coast from SJCOO
DSB 4	Doheny State Beach; 1,900' down-coast from SJCOO
S3	South Day Use; 2000' down-coast from SJCOO
S5	Doheny Beach near overpass; 3000' down-coast from SJCOO
DSB 1	End of Doheny State Beach; 3500' down-coast from SJCOO



### MONITORING REPORT

South Orange County Wastewater Authority

DISCHARGE: San Juan Creek Ocean Outfall

REPORT FOR: February 2019 REPORT FREQUENCY: Monthly

Offshore

REPORT DUE: April 1, 2019

SAMPLE SOURCE: Receiving water, nearshore and offshore SAMPLING FREQUENCY: Monthly

EXACT SAMPLE POINTS: As specified in permit TYPE OF SAMPLE: Grab

SAMPLES COLLECTED BY: Seaventures/SOCWA staff

SAMPLES ANALYZED BY: SOCWA Lab

Comments: Low Tide 1033

			Total	Fecal	Entero-				0 - None
			Coliform	Coliform	coccus				1 - Mild
Sta	Sample	Sample	CFU/100ml	CFU/100ml	CFU/100ml	Sample	Oil &	Sewage	2 - Moderate
No.	Depth	Date	SM9222B	SM9222D	EPA 1600	Time	Grease	Debris	3 - Severe
A-1	Surface	02/13/19	2	2	<2	927	0	0	
A-1	Mid depth	02/13/19	30	<10	<10				
A-2	Surface	02/13/19	<2	<2	<2	930	0	0	
A-2	Mid depth	02/13/19	10	<10	<10				
A-3	Surface	02/13/19	<2	<2	<2	933	0	0	
A-3	Mid depth	02/13/19	<10	<10	<10				
A-4	Surface	02/13/19	4	2	<2	939	0	0	
A-4	Mid depth	02/13/19	20	<10	10				
A-5	Surface	02/13/19	30	30	6	937	0	0	
A-5	Mid depth	02/13/19	160	60	10				
B-1	Surface	02/13/19	4	<2	<2	917	0	0	
B-1	Mid depth	02/13/19	<10	<10	<10				
B-2	Surface	02/13/19	2	<2	<2	946	0	0	
B-2	Mid depth	02/13/19	20	10	<10				
N1	Surface	02/13/19	2	<2	<2	908	0	0	
N2	Surface	02/13/19	<2	2	<2	905	0	0	
N3	Surface	02/13/19	2	<2	<2	901	0	0	
N4	Surface	02/13/19	76	40	32	858	0	0	
N5	Surface	02/13/19	22	12	14	856	0	0	
N6	Surface	02/13/19	6	6	10	853	0	0	

REQUIREMENT: (1) Floating particulates and grease and oil shall not be visible. (2) The discharge of waste shall not cause aesthetically undesireable discoloration of the ocean surface.

Compliance Summary Report San Juan Creek Ocean Outfall 2019

Potential Fine
Reported Value
Permit Limit
012 Units
SJCOO Permit Order No. R9-2012-0012 t
SJCOO Permit C
Violation Co Date
Vio

SJCOO Spill / Overflow Report Log - 2019 Order No. R9-2012-0012 ~ NPDES Permit No. CA0107417 SOCWA and MEMBER AGENCY FACILITIES

Date Date O State	l
To State	
Receiving Waters	
	ng Period
Location/Comments	No Spills for this Monitoring Period
_	No Spil
Type of Discharge	l
Estimated Volume (Gallons)	
Responsible Agency	,
Reporting Agency	

### Recycled Water Report

Compliance Summary Report Recycled Water Permit 2019

	Remarks	Results reported in January. Agency to begin quarterly accelerated monitoring.	There were six instances of exceedances of MPN greater than 23 cfu/100ml Permit limits no more than one sample in excess of 23 in 30 day period. Chrloine contact basin past scheduled annual maintenance due to storm as key contributor to exceedances. Chlorine contact basin cleaned early February.	Chrloine contact basin past scheduled annual maintenance due to storm as key contributor to excedances. Chlorine contact basin cleaned early February.	There were nine exceedances of the 7 day median. Chrloine contact basin past scheduled annual maintenance due to storm as key contributor to exccedances. Chlorine contact basin cleaned early February.		SOCWA began accelerated monitoring.	Plant offline but running annual average continues to be above the permit limit.			Plant offline but running annual average continues to be above the permit limit.		Suspected sample contamination.	
Waste Discharge Requirement Order 97 - 52	Reported Value	89	37-548	548	3-37	0.07	1024	90:0	0.07	1072	0.06	90'0	2419	
Requirement	Permit Limit	45	33	240	8.0	0.05	1000	0.05	0.05	1000	0.05	0.05	₹	
ste Discharge	Units	mg/L	cfu/100mL	cfu/100mL	cfu/100mL	mg/L	T/6ш	mg/L	mg/L	mg/L	mg/L	mg/L	cfu/100mL	
Wa	Effluent Limit Violation	Annual	30-дау Мах	Instaneous	7 Day Median	12-Month	12-Month	12-Month	12-Month	12-Month	12-Month	12-Month	Instaneous	
	Constituent	Nitrate as NO3	Coliform	Coliform	Coliform	Manganese	TDS	Manganese	Manganese	TDS	Manganese	Manganese	Coliform	
	Violation Date	10/19/2018	1/16/2019-	1/16/2019	1/22/2019-	1/3/2019	1/3/2019	1/1/2019	2/5/2019	2/5/2019	2/28/2019	2/7/2019	2/9/2019	
	Agency - Facility	TCWD - RRWRP	SOCWA - RTP	SOCWA - RTP	SOCWA - RTP	SOCWA - RTP	SOCWA - RTP	SMWD - 3A	SOCWA - RTP	SOCWA - RTP	SOCWA - CTP	SMWD - 3A	SMWD - 3A	

## SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

QUARTERLY RECYCLED WATER MONITORING

Feb 28, 2019 Monitoring Period Ending:

	<u> </u>					г						_		
SCWD-CTF		ŧ	068	522	232	117	182	4.05	260'0	0.059	0.03	0.34	0.70	10.0
MNWD-3A MNWD-RTP SCWD-CTP 12-month 12-month	Average		1,111	268	398	183	797	4.06	0.155	0.078	0.03	0.330	0.94	13.4
MNWD-3A 12-month	Average		111	196	183	145	240	2.00	0.13	0.064	0.03	0.33	0.86	10.2
SMWD Nichols 12-month	Average		833	233	183	183	•	5.72	0.011	0.010	60.0	0.328	0.59	7.8
SMWD Oso SMWD Chiquita	Average		824	194	203	163	-	5.20	0.145	0.040	0.18	0.378	29.0	10.8
SMWD Oso	Average		773	174	210	155	-	4.97	0.050	0.024	0.08	0.367	0.873	13.1
TCWD 12-month	Average		862	261	273	190		4.73	0.020	0.013	0.16	0.303	0.26	10.1
ETWD-WRP 12-month	Average	**	944	211	274	173	•	-	0.073	0.011	00.00	0.265	0.995	•
IRWD-LAWRP 12-month	Average	•	121	143	225	145	•	5.05	0.056	0.031	0.07	0.24	0.33	10.5
12-month Avg Maximum	Permit Limit		1000	375	400	None	None	None	0.3	0.05	0.5	0.75	None	None
Units			mg/L	mg/L	mg/L	mg/L	mg/L	Ratio	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Constituent			TDS	Chloride	Sulfate	Sodium	Alkalinity	Adjusted SAR Ratio	Iron	Manganese	MBAS	Boron	Fluoride	Total Organic mg/l Carbon

The LAWRP 12-month permit limits are listed below:

TDS 1000 mg/L

Chloride 180 mg/L

Sulfate 340 mg/L

\*\*The ETWD 12-month permit limits are listed below:
TDS 910 mg/L

\*\*\* The CTP 12-month permit limits are listed below:

TDS 1200 mg/L

Chloride 400 mg/L

Sulfate 500 mg/L

SOCWA Service Area Recycled Water Production (ac-ft) 2019

Denotes transfer of recycled water from MNWD (3A Plant) for use in the CSJC service area. Not counted as additional production.

Denotes recycled water purchased from SMWD Chiquita-WRP used in the CSJC service area. Not counted as additional production.

Denotes non-domestic groundwater produced from wells used for landscape irrigation.

2 6 4 6

IRWD production is from recycled water production, non-potable water wells, and surface water impoundments.

Denotes transfer of recycled water from SCWD (SOCWA CTP) for use in the MNWD service area. Not counted as additional production.

Note: All of ETWD reclaimed water produced and used in Region 8.

NR = No Report

### Pretreatment Report

### Agenda Item

Legal Counsel Review: N/A

Meeting Date: April 4, 2019

**TO:** SOCWA Board of Directors

**FROM:** Betty Burnett, General Manager

**STAFF CONTACT:** Katie Greenwood, Source Control Manager

**SUBJECT:** Monthly Pretreatment Report, February and March 2019

San Juan Creek Ocean Outfall

NPDES Permit #CA0107417 Order #R9-2012-0012

Aliso Creek Ocean Outfall

NPDES Permit #CA0107611 Order #R9-2012-0013

### **Summary of Program Activities**

State contractors conducted a Pretreatment Compliance Audit (PCA) of IRWD's Pretreatment Program on March 15-16, 2019. SOCWA staff attended the interview portion of the audit to help answer questions regarding pretreatment program implementation in the SOCWA Lake Forest area. The PCA produced no preliminary findings in the SOCWA Lake Forest service area.

EPA published a new rule for Management Standards for Hazardous Waste Pharmaceuticals on February 22, 2019. The new Rule prohibits the discharge of any hazardous pharmaceutical wastes to a POTW (a new specific prohibition). The effective date of the sewer-related prohibition is six (6) months after publication, August 22, 2019. EPA Region 9 and EPA Headquarters are not expecting POTWs to modify their pretreatment programs to incorporate this prohibition since it is a Resource Conservation and Recovery Act (RCRA) regulation revision, not a Clean Water Act/pretreatment regulation revision (and therefore, not a reason to revise pretreatment legal authority, unless POTWs want to for added notification). SOCWA maintains a general prohibition against the discharge of toxic or hazardous waste but may be required to add a more specific prohibition for pharmaceutical wastes. SOCWA staff may be required to also notify health care facilities of the new Rule under 40 CFR Section 403.8(f)(2)(iii). Additionally, this Rule may impact at least one vitamin manufacturer in the SOCWA service area presently permitted to discharge facility wash-down wastewater to the sewer. Staff will be seeking clarification from EPA Staff over the next few months.

State contractors conducted a PCA of SOCWA's Pretreatment Program on December 5-6, 2018. The following two categorical industrial user (CIU) files and facilities were inspected:

CSC-South Coast Fashion Jewelry

SMWD-Applied Medical (004)

Preliminary findings were presented verbally and include the requirement to modify permit language to state that notification is required if any change in facility operations occur that affect the potential for a slug load discharge. Several recommendations for program improvement were also given verbally and include:

1) SOCWA should ensure that permit language singles out and clearly states the required self-monitoring frequency instead of bolding or highlighting the required frequency.

2) SOCWA should review facility factsheets and ensure that they state that sampling compliance history has been established for certain pollutants found not to be present, and is the reason why monitoring for those pollutants is not performed regularly.

SOCWA Staff continues to wait on issuance of the report and now understands that it should be issued by June 2019.

### **Permit Related Activities**

The following Wastewater Discharge (WD) Permits, Special Wastewater Discharge (SWD) Permits, Nuisance Water-Special Wastewater Discharge (NSWD) Permits, Non-Industrial Wastewater Discharge (NIWD) forms, and BMP letters were issued or are in the process of being drafted for issuance:

CLB - NSWD Permit No. CLB-N4-001 – Multiple Diversions – Renewal SWD Permit to continue to allow dry weather diversion flows to be discharged to the sewer. A NSWD renewal permit application was received on June 18, 2018, and a renewal permit issued on July 30, 2018. SCWD and CLB have worked out a New Agreement for three diversion structures located in SCWD jurisdiction and operated by CLB Staff. The new Agreement was finalized and signed during the SCWD Board meeting on November 15, 2018, and is currently awaiting the signature of the CLB Manager. Once signed, SOCWA will modify the CLB NSWD Permit and attach the Agreement.

SCWD – <u>NSWD Permit No. SCWD-N4-010 – Three Arch Bay Community</u> – Renewal NSWD Permit to continue to allow dry weather diversion flows to be discharged to the sewer. A NSWD renewal permit application was received on November 13, 2018, and a renewal permit issued on March 6, 2019.

### **Inspections**

CSC – On March 13, 2019, SOCWA Staff inspected Regenesis, located at 1011 Calle Sombra #100, San Clemente, CA 92673. Inspection findings require the site to purchase non-expired pH buffer solutions for use in calibration of pH meters and recording and logging of each pH meter calibration performed.

IRWD – On March 12, 2019, SOCWA Staff inspected Beacon Bay Enterprises-Groundwater Remediation site, located at 23581 Rockfield Boulevard, Lake Forest, CA 92630. The inspection yielded no major findings and verified current equipment and procedures presently in use at the site.

### **Public Outreach**

Staff participated in the annual Ocean Awareness Day as part of the Festival of Whales on March 3, 2019. SOCWA Staff answered questions from the public regarding SOCWA's ocean outfalls and water quality impacts and handed out educational flyers and brochures related to sewer prohibitions and proper disposal of hazardous materials. Staff also gave away items such as paper straws and rulers and pencils.

### **Trainings and Committee Meetings Attended**

On February 28, 2019, Staff attended a free CUPA training related to Hazardous Waste Management to better understand Rules applicable to facilities inspected by SOCWA staff.

### Summary of IWS Activities, Enforcement and Types of IUs in the SOCWA Service Area -YTD through March 20, 2019.

	oug		0, 20 .0.							
MA		<b>Events</b>	<u>Permit</u>	<u>NIWD</u>	<u>BMP</u>	<u>FSE</u>	<u>OSE</u>	Closed I	<u>Enforcement</u>	<u># of</u>
<u>IUs</u>										
CLB	(S)	0	3	2	5	8	111	0	0	129
CSC	(M)	0	7	35	18	181	1283	0	0	1524
CSJC	(S)	0	2	27	59	137	1669	0	0	1894
ETWD	(M)	0	3	98	0	262	134	0	0	497
EBSD	(U)	0	1	0	0	0	0	0	0	1
IRWD	(S)	0	4	51	21	63	920	0	0	1059
MNWD	(S)	32	4	124	40	625	2100	8	0	2893
SMWD	(S)	18	6	19	20	196	782	2	0	1023
SCWD	(S)	0	7	33	7	148	184	0	1	380
TCWD	(S)	0	11	0	0	7	33	0	0	51
SOCWA	(S)	0	3	1	0	0	0	0	1	4
Totals		50	51	390	170	1627	7216	10	2	9459
Dentist (	All)									444
	•							Total K	nown IUs	9903

<sup>(</sup>S) = SOCWA conducts PT program. (M) = MA conducts PT program /w SOCWA oversight.

<sup>(</sup>U) = Urban Diversion Only.

YTD = Year to Date.

NIWD = Non-industrial Waste Discharger.

BMP = Best Management Practices.

FSE = Food Service Establishment.

OSE = Other Surveyed Establishment.

### **Agenda Item**

Legal Counsel Review: N/A

Meeting Date: April 4, 2019

**TO:** Board of Directors

FROM: Betty Burnett, General Manager

**STAFF CONTACT:** Jason Manning, Senior Engineer

**SUBJECT:** Capital Improvement Program Status Report

The status of the SOCWA Capital Improvement Program is presented in the tables on the following pages.

# SOUTH ORANGE COUNTY WASTEWATER AUTHORITY PROJECT COMMITTEE NO. 2(R) - JB LATHAM TREATMENT PLANT CAPITAL PROJECTS

('18/'19)

Phase

Description

Task Code

Status

CAPITAL IN	CAPITAL IMPROVEMENT PROJECT LIQUIDS		
3213-000	3213-000 Water System Piping Improvements (2014)	Bid	Study completed. Remaining work is part of the Package 'B' Improvements. Award of construction contract for Package 'B' to be presented at April 4, 2019, SOCWA Board meeting.
3214-000	4MGD Diversion Flow Meter & Control Structure (2012)	Design	This work has been delayed until the development of Package 'D' in Fiscal Year '19/'20.
3212-000	East Primary Influent Channel Repair (2015)	Bid	This work is part of the Package 'B' Improvements. Award of construction contract for Package 'B' to be presented at April 4, 2019, SOCWA Board meeting.
3280-000	Facility Improvements B - Basin Upgrades (2018)	Pig	This work is part of the Package 'B' Improvements. Award of construction contract for Package 'B' to be presented at April 4, 2019, SOCWA Board meeting.
3252-000	Plant 1 Standby Power Generator Replacement (2017)	Design	Operations staff has requested a standby power generator large enough to supply power to all of Plant No.1. Design on hold to allow consideration of larger unit (see Project 3352-000).
3250-000	Plant 1 Grit Basin Improvements (2017)	Construction	No field work taking place during wet weather season. SS Mechanical to resume work in April, 2019.
3253-000	Effluent System Valve Replacement (2017)	Bid	This work is part of the Package 'B' Improvements. Award of construction contract for Package 'B' to be presented at April 4, 2019, SOCWA Board meeting.
3350-000	Motor Control Center 'M' Replacement (2019)	Design	RFP for engineering services for project to be issued in May 2019.
3351-000	Facility Improvements B - Basin Upgrades Construction I (2019)	Bid	This work is part of the Package 'B' Improvements. Award of construction contract for Package 'B' to be presented at April 4, 2019, SOCWA Board meeting.

### PROJECT COMMITTEE NO. 2(R) - JB LATHAM TREATMENT PLANT CAPITAL PROJECTS SOUTH ORANGE COUNTY WASTEWATER AUTHORITY (.18/.19)

TetraTech is proceeding with the evaluation of the drain RFP for engineering services for project to be issued in Award of construction contract for Package 'B' to be Award of construction contract for Package 'B' to be Award of construction contract for Package 'B' to be Award of construction contract for Package 'B' to be Award of construction contract for Package 'B' to be Award of construction contract for Package 'B' to be This work is part of the Package 'B' Improvements. This work is part of the Package 'B' Improvements. This work is part of the Package 'B' Improvements. This work is part of the Package 'B' Improvements. This work is part of the Package 'B' Improvements. This work is part of the Package 'B' Improvements. presented at April 4, 2019, SOCWA Board meeting. presented at April 4, 2019, SOCWA Board meeting. presented at April 4, 2019, SOCWA Board meeting. presented at April 4, 2019, SOCWA Board meeting presented at April 4, 2019, SOCWA Board meeting presented at April 4, 2019, SOCWA Board meeting SOCWA staff is reviewing the project with the Issue RFP for design in April, 2019. Status equipment supplier. May 2019. Ongoing. system Construction Design Phase Design Study Study Bid Big Bid Bid Bid Big Solids Improvements Construction - Part I (2019) Emulsion Polymer Feeder Replacement (2019) Facility Improvements B - DAFT and Ancillary Facility Improvements B - DAFT and Ancillary Energy Building Roof Reconstruction (2015) Hoist System for Maintenance Shop (2013) Facility Improvements - Solids Area (2015) 4001-000 | Plant Drain System Study (2017) (NCP) CAPITAL IMPROVEMENT PROJECT COMMON 3352-000 | Electrical System Evaluation (2018) CAPITAL IMPROVEMENT PROJECT SOLIDS 3355-000 Digester No.4 Rehabilitation (2019) Description Centrate System Design (2019) Solids Improvements (2018) PLC Upgrades (2018) 3218-000 3216-000 3286-000 3210-000 3353-000 3354-000 3287-000 3356-000 Code Task

## PROJECT COMMITTEE NO. 5 - SAN JUAN CREEK OCEAN OUTFALL CAPITAL PROJECTS ('18/'19) SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Code	Description	Phase	Status
	CAPITAL IMPF	CAPITAL IMPROVEMENT PROJECTS	JECTS
			Project reviewed at January, 2019, Engineering Committee meeting. SOCWA staff to return with
			additional information at the April 3, 2019 Engineering
3601-000	3601-000 Junction Structure Rehabilitation Design	Design	Committee meeting.
			Project reviewed at January, 2019, Engineering
			Committee meeting. SOCWA staff to return with
	Junction Structure Reinforcement Permitting and		additional information at the April 3, 2019 Engineering
3357-000	3357-000  Final Design	Design	Committee meeting.
			SOCWA staff preparing Final Plan based on
			preliminary work completed by Black & Veatch. Target
4004-000	4004-000   Emergency Plan Development (2016) (NCP)	Study	completion is April, 2019.

# SOUTH ORANGE COUNTY WASTEWATER AUTHORITY PROJECT COMMITTEE NO. 15(R) - COASTAL TREATMENT PLANT CAPITAL PROJECTS

('18/'19)

lask code	Description	Phase	Status
	CAPITAL IMPROVEMENT PROJECTS LIQUIDS	MENT PROJECT	SLIQUIDS
			Protection in this area has been largely addressed
			through the routing of the new Export Sludge pipeline as
			well as through minor embankment protection features
			that will be integrated with Export Sludge System
			replacement. Project expected to advertise for bid in
1367	Export Sludge Line Repair & Rip Rap (R - 2) (2012)	Design	May, 2019.
	Primary Device Electrical Conduit and Conductor		Project part of Facility Improvements Project. Bids are
3595-000	Replacement (2018)	Bid	to be received on April 16, 2019.
			Project part of Facility Improvements Project. Bids are
3514-000	CTP Facility Improvements Upgrade Design (2016)	Bid	to be received on April 16, 2019.
			USFWS has completed review and transferred
			documentation to USACOE for Nationwide Permit
			application. Project expected to advertise for bid in May,
3534-000	Export Sludge System (1997)	Design	2019.
7			
3284-000	PLC Replacement (2018)	Construction	Project underway by SOCWA Operations department.
3592-000	Facility Improvements Project Design (2018)	Bid	Construction bids are to be received on April 16, 2019.
3358-000	Personnel Building Reconstruction (2019)	Bid	Project to advertise for bids in May, 2019.
	Facility Improvements Project Construction - Part I		Project part of Facility Improvements Project. Bids are
3359-000	(2019)	Bid	to be received on April 16, 2019.
	AWMA Road Sites West 1 and 2 Embankment		RFP for project design and permitting was issued on
3361-000	Protection (2019)	Design	March 14, 2019. Proposals due April 16, 2019.
			RFP for project design and permitting was issued on
3362-000	Aliso Creek Long Term Repair Planning (2019)	Planning	March 14, 2019. Proposals due April 16, 2019.
			TetraTech has completed design. Project expected to
3553-000	Plant Drainage Improvements (2017)	Design	advertise for bid in May 2019.
3360-000	Vehicle Storage Building Roof (2019)	Construction	Project completed by Operations staff.

# SOUTH ORANGE COUNTY WASTEWATER AUTHORITY PROJECT COMMITTEE NO. 15(R) - COASTAL TREATMENT PLANT CAPITAL PROJECTS ('18/'19)

Task Code	Description	Phase	Status
	CAPITAL IMPROVEMENT PROJECT AWT	VEMENT PROJE	CT AWT
	Applied Water VFD Pump Panel and Electrical		Work by SS Mechanical in underway and project
3596-000	3596-000 (AWT) (2018)	Construction	Construction   completion is expected by May 2019
	Chlorine Contact Basin Mixer Construction (AWT)		Work by SS Mechanical in underway and project
3364-000 (2019)	(2019)	Construction	Construction   completion is expected by May 2019
			Work by SS Mechanical in underway and project
3365-000	3365-000   MCC A Replacement Construction (AWT) (2019)	Construction	Construction   completion is expected by May 2019
	AWT Filter Valve Upgrade Construction (AWT)		Work by SS Mechanical in underway and project
3366-000 (2019)	(2019)	Construction	Construction   completion is expected by May 2019

## SOUTH ORANGE COUNTY WASTEWATER AUTHORITY PROJECT COMMITTEE NO. 17(R) - REGIONAL TREATMENT PLANT CAPITAL PROJECTS (18/19)

Task Code	Description	Phase	Status
CAPITAL I	CAPITAL IMPROVEMENT PROJECT LIQUIDS		
3701-000	Secondary Electrical System Rerouting (2014)	Bid	Part of the RTP Miscellaneous Improvements 2018 Project. Bids were opened on February 7, 2019. SOCWA staff is currently reviewing bids and budgeting.
3730-000	Primary Gallery Upgrade (2014)	Bid	Part of the RTP Miscellaneous Improvements 2018 Project. Bids were opened on February 7, 2019. SOCWA staff is currently reviewing bids and budgeting.
3702-000	Waste Activated Sludge VFD Control Panel (2013)	Bid	Part of the RTP Miscellaneous Improvements 2018 Project. Bids were opened on February 7, 2019. SOCWA staff is currently reviewing bids and budgeting.
3752-000	AWT No.2 Upgrade Design (2017)	Design	This project is scheduled to advertise for bid in April 2019
3781-000	Primary Scum Skimmer Replacement (2018)	Design	Design completed by Lee & Ro; this work will be bid in 2021.
3784-000	DAF (Mannich) Polymer System Replacement (2018)	Bid	Part of the RTP Miscellaneous Improvements 2018 Project. Bids were opened on February 7, 2019. SOCWA staff is currently reviewing bids and budgeting.
3785-000	DAF Dissolution Tank System Replacement (2018)	Bid	Part of the RTP Miscellaneous Improvements 2018 Project. Bids were opened on February 7, 2019. SOCWA staff is currently reviewing bids and budgeting.
3786-000	Primary Gallery Mechanical and Electrical Upgrade (2018)	Bid	Part of the RTP Miscellaneous Improvements 2018 Project. Bids were opened on February 7, 2019. SOCWA staff is currently reviewing bids and budgeting.
3367-000	Southwest Influent Sewer and Manhole Design (2019)	Design	The draft RFP for this item will be presented to the Engineering Committee after completion of the Moulton Niguel Water District study.

## SOUTH ORANGE COUNTY WASTEWATER AUTHORITY PROJECT COMMITTEE NO. 17(R) - REGIONAL TREATMENT PLANT CAPITAL PROJECTS (18/19)

Task Code	Description	Phase	Status
CAPITAL	CAPITAL IMPROVEMENT PROJECT LIQUIDS		
3368-000	Aeration System Upgrade (2019)	Design	This project is scheduled to advertise for bid on April 2019
3369-000	Aeration Gate Replacement (2019)	Design	This project is scheduled to advertise for bid on April 2019
7000	Effluent Equalization Pond and Gate Condition	Condition	
4000-000	4000-000 Assessment (2017) (NCP)	Assessment	Due to weather, this will be delayed until Spring of 2020
CAPITAL	CAPITAL IMPROVEMENT PROJECT COMMON		
			Part of the RTP Miscellaneous Improvements 2018
			Project. Bids were opened on February 7, 2019.
3761-000	External Lighting Upgrade (2017)	Bid	SOCWA staff is currently reviewing bids and budgeting.
3370-000	Administration Building Repair Design (2019)	Design	This project has been awarded to Tetra Tech.
3371-000	West Slope Protection Evaluation (2019)	Study	This project has been awarded to Tetra Tech.
			The SOCWA Board approved the award of contract to
			Lee & Ro at the March 7, 2019, SOCWA Board
3372-000	3372-000   Motor Control Center A, G, H Design (2019)	Design	Meeting.
3373-000	Southside Plant Flooding Evaluation (2019)	Study	This project has been awarded to Tetra Tech.
			The SOCWA Board approved the award of contract to
			Lee & Ro at the March 7, 2019, SOCWA Board
3374-000	SE Electrical Manhole Reconstruction (2018)	Design	Meeting.
3788-000	PLC Upgrade (2018)	Construction	Project underway by SOCWA Operations Dept.

## SOUTH ORANGE COUNTY WASTEWATER AUTHORITY PROJECT COMMITTEE NO. 17(R) - REGIONAL TREATMENT PLANT CAPITAL PROJECTS (18/19)

Task Code	Description	Phase	Status
CAPITAL	CAPITAL IMPROVEMENT PROJECT SOLIDS		
3375-000	3375-000   Phase I Solids Piping Upgrade (2019)	This propertion 2019.	This project is expected to advertise for bid in June 2019.
Dewat 3376-000 (2019)	Dewatering Room Floor Sealing and Lighting (2019)	Design	Harper & Associates has been retained to provide a specification for the floor sealing.
		j	Part of the RTP Miscellaneous Improvements 2018 Project. Bids were opened on February 7, 2019.
3377-000	3377-000   Energy Building Roof and Breezeway (2019)	Bid	SOCWA staff is currently reviewing bids and budgeting.
			This project is expected to advertise for bid in June
3379-000	3379-000  SET Piping Reconstruction (2019)	Construction 2019.	2019.
			Lee & Ro is working on the design for the modifications
3790-000	3790-000  Solids Area Upgrade Design (2018)	Design	to the digester gas piping.

### PROJECT COMMITTEE NO. 21 - EFFLUENT TRANSMISSION MAIN CAPITAL PROJECTS SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

(.18/.19)

Code	Description	Phase	Status
	CAPITAL IMPR	CAPITAL IMPROVEMENT PROJECTS	JECTS
			Technical memorandum received from TetraTech. The
			project was reviewed with the SOCWA Engineering
	Air Vacuum Release Valve Replacement Reach D		Committee on November 8, 2018. Construction will be
3181-000 (2018)	(2018)	Study	programmed into future budgets.
			Technical memorandum received from TetraTech. The
			project was reviewed with the SOCWA Engineering
	Air Vacuum Release Valve Replacement Reach E		Committee on November 8, 2018. Construction will be
3182-000 (2018)	(2018)	Study	programmed into future budgets.
			Draft memorandum received from TetraTech;
			presentation was made at Engineering Committee on
			November 8, 2018. Direction was made to TetraTech
			regarding which alternative is to be addressed in the
4004-000	4004-000 Trail Bridge Creek Crossing Protection (Reach D)	Design	CEQA process.

### PROJECT COMMITTEE NO. 24 - ALISO CREEK OCEAN OUTFALL CAPITAL PROJECTS SOUTH ORANGE COUNTY WASTEWATER AUTHORITY (18/19)

Status Phase Description Code Task

	CAPITAL IMPROVEMENT PROJECTS	<b>OVEMENT PRO</b>	DJECTS
			A purchase order has been issued to Black & Veatch to
			provide design documents. The project is expected to
3480-000	3480-000 Internal Seal Replacement (2018)	Design	advertise for bidding in April, 2019.
			SOCWA staff preparing Final Plan based on
			preliminary work completed by Black & Veatch. Target
4004-000	4004-000   Emergency Plan Development (2016) (NCP)	Study	completion is April, 2019.

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY PROJECT COMMITTEE NO. 2(R) - JB LATHAM TREATMENT PLANT CAPITAL PROJECTS

																				<b>Bidding and Award</b>	ion
		4th Qtr	S	C		C	၁		ပ		ပ	၁	၁	ပ				C	Design	<b>Bidding</b> a	Construction
	Fiscal Year 19/20	3rd Qtr	<b>O</b>	O		C	)		ပ		ပ	<b>O</b>	<b>O</b>	O				S	О	B&A	C
	Fiscal Ye	2nd Qtr	၁	O		ပ	၁		ပ		ပ	၁	၁	၁			ပ	O		ent	mitting
		1st Qtr	<b>O</b>	O		ပ	၁		ပ		ပ	၁	၁	၁			ပ	O		Condition Assessment	Environmental/Permitting
	Fiscal Year 18/19	4th Qtr	<b>O</b>	O		၁	၁		ပ		ပ	၁	၁	၁			ပ	C	Planning	Condition	Environn
	Fiscal Y	3rd Qtr	B&A	B&A		B&A	B&A		B&A		B&A	B&A	B&A	B&A			B&A	B&A	Д	CA	ENV
	Description		FACILITY IMPROVEMENTS PACKAGE B	3213-000  Water System Piping Improvements (2014)	Preliminary and Primary Treatment Improvements	3202-000  (Package "B") (2016)	3285-000   Main Plant Drain Line Reconstruction (2018)		Facility Improvements B - Basin Upgrades (2018)		3356-000 Facility Improvements B - DAFT (2018)	3212-000 East Primary Influent Channel Repair (2015)	3218-000 Energy Building Roof Reconstruction (2015)	3216-000 Hoist System for Maintenance Shop (2013)			3355-000   Facility Improvements - Digester 4 Imps. (2018)	3253-000 Effluent System Valve Replacement (2017)			
Task	Code		FACILITY IN	3213-000		3202-000	3285-000	3280-000;	3351-000	3287-000;	3356-000	3212-000	3218-000	3216-000	3287-000;	3210-000;	3355-000	3253-000			

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY PROJECT COMMITTEE NO. 2(R) - JB LATHAM TREATMENT PLANT CAPITAL PROJECTS

Task								
Code	Description	Fiscal Year 18/19	ar 18/19		Fiscal Ye	Fiscal Year 19/20		
		3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr   4th Qtr   1st Qtr   2nd Qtr   3rd Qtr   4th Qtr	4th Qtr	
)ENC	INDEPENDENT PROJECTS							
-000	3250-000 Plant 1 Grit Basin Improvements (2017)	ပ	၁					
000-	3286-000 PLC Upgrades (2018)	Э	О					
-000	4001-000 Plant Drain System Study (2017) (NCP)	Д						
000-0	3350-000   MCC "M" Replacement Design (2019)		D	D	Q			
000-	3354-000 Emulsion Polymer Feeder Replacement (2019)	O	C					
3-000	3353-000 Centrate System Design (2019)		D	D	Q			
		Ь	Planning			Q	Design	
		CA	Condition	Condition Assessment	ent	B&A	<b>Bidding</b> a	<b>Bidding and Award</b>
		ENV	Environm	Environmental/Permitting	mitting	0	Construction	ion

PROJECT COMMITTEE NO. 15(R) - COASTAL TREATMENT PLANT CAPITAL PROJECTS SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

		Fiscal Year 18/19	ar 18/19		Fiscal Ye	Fiscal Year 19/20		
Task Code	Description	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr	
FACILITY IN	FACILITY IMPROVEMENTS PACKAGE	B&A	B&A	O	S	C	C	
3592-000; 3359-000	Facility Improvements Project Design (2018)	B&A	B&A	0	၁	O	O	
3595-000	Primary Device Electrical Conduit (2018)	B&A	B&A	S	O	S	ပ	
3593-000	Primary Sludge Valve Replacement (2018)	B&A	B&A	O	၁	O	C	
<b>TERTIARY</b>	TERTIARY SYSTEM IMPROVEMENTS 2018	ပ	C					
3597-000; 3365-000	MCC-A Replacement (2018)	S	C					
	Applied Water VFD Pump Panel and Electrical							
3596-000	(2018)	ပ	ပ		_			
	Chlorine Contact Basin Mixer Construction (AWT)							
3364-000	(2019)	ပ	ပ					
	AWT Filter Valve Upgrade Construction (AWT)							
3366-000	(2019)	ပ	C					
<b>EXPORT SL</b>	EXPORT SLUDGE SYSTEM REPLACEMENT	ENV	B&A	C	ပ	C		
1367	Export Sludge Line Repair & Rip Rap (R - 2) (2012)	ENV	B&A	O	ပ	O		
3534-000	Export Sludge System (1997)	ENV	B&A	S	ပ	C		
		Д	Planning			Q	Design	
		CA	Condition	Condition Assessment	ient	B&A	Bidding and Award	nd Award
		ENV	Environm	Environmental/Permitting	mitting	C	Construction	on

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY PROJECT COMMITTEE NO. 15(R) - COASTAL TREATMENT PLANT CAPITAL PROJECTS

		Fiscal Year 18/19	ar 18/19		Fiscal Year 19/20	ar 19/20		
Task Code	Description	3rd Qtr	4th Qtr	1st Qtr	3rd Qtr   4th Qtr   1st Qtr   2nd Qtr   3rd Qtr   4th Qtr	3rd Qtr	4th Qtr	
INDEPENDE	INDEPENDENT PROJECTS							
3594-000	3594-000 PLC Replacement (2018)	O	C					
3553-000	3553-000   Plant Drainage Improvements (2017)	B&A	C					
3358-000	Personnel Building Reconstruction (2019)	D	B&A	С	С			
	AWMA Road Sites West 1 and 2 Embankment							
3361-000	Protection (2019)	ENV	ENV	ENV	ENV	EN/	B&A	
3362-000	3362-000 Aliso Creek Long Term Repair Planning (2019)	ENV	ENV	ENV	ENV			
		Д	Planning			О	Design	
		CA	Condition	Condition Assessment	ent	B&A	Bidding and Award	nd Award
		EN	Environm	Environmental/Permitting	nitting	S	Construction	lon

PROJECT COMMITTEE NO. 17(R) - REGIONAL TREATMENT PLANT CAPITAL PROJECTS SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

		Fiscal Year 18/19	ar 18/19		Fiscal Year 19/20	ear 19/20	
Task Code	Description	3rd Qtr	4th Qtr	1st Qtr	2nd Qtr	3rd Qtr	4th Qtr
MISCELLAN	MISCELL ANEOLIS IMPROVEMENTS 2018	B&A	B&A	C	ď	C	C
3701-000	3701-000   Secondary Electrical System Rerouting (2014)	B&A	B&A	O	O	O	O
3702-000	3702-000   Waste Activated Sludge VFD Control Panel (2013)	B&A	B&A	C	O	O	O
3730-000	Primary Gallery Upgrade (2014)	B&A	B&A	C	O	O	O
3781-000	Primary Scum Skimmer Replacement (2018)	B&A	B&A	O	O	ပ	ပ
	DAF (Mannich) Polymer System Replacement						
3784-000 (2018)	(2018)	B&A	B&A	ပ	O	ပ	ပ
3785-000	3785-000 DAF Dissolution Tank System Replacement (2018)	B&A	B&A	C	O	O	O
	Primary Gallery Mechanical and Electrical Upgrade						
3786-000	(2018)	B&A	B&A	ပ	ပ	ပ	ပ
3377-000	Energy Building Roof and Breezeway (2019)	B&A	B&A	Э	၁	O	ပ
3761-000	External Lighting Upgrade (2017)	B&A	B&A	О	O	ပ	ပ

MISCELLA	MISCELLANEOUS IMPROVEMENTS 2019	Ω	B&A	O	ပ	S	O
3787-000;							
3368-000	3368-000   Aeration Area Upgrade Design (2018)	۵	B&A	ပ	ပ	C	ပ
3369-000	3369-000 Aeration Gate Replacement (2019)	D	B&A	၁	ပ	C	ပ
3375-000	3375-000 Phase I Solids Piping Upgrade (2019)	D	B&A	၁	ပ	С	ပ
3752-000	3752-000 AWT No.2 Upgrade Design (2017)	D	B&A	၁	ပ	С	
3379-000	3379-000 SET Piping Reconstruction (2019)	D	B&A	ပ	၁	C	ပ
		Q	ومنمماط			٥	ا ا

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY PROJECT COMMITTEE NO. 17(R) - REGIONAL TREATMENT PLANT CAPITAL PROJECTS

		Fiscal Year 18/19	ar 18/19		Fiscal Ye	Fiscal Year 19/20		
Task Code	Description	3rd Qtr 4th Qtr	4th Qtr	1st Qtr	1st Qtr 2nd Qtr 3rd Qtr	3rd Qtr	4th Qtr	
INDEPENDE	INDEPENDENT PROJECTS							
4008-000	Effluent Equalization Pond and Gate Condition 4008-000   Assessment (2017) (NCP)	S						
3788-000	3788-000 PLC Upgrade (2018)	O	O					
	Southwest Influent Sewer and Manhole Design							
3367-000 (2019)	(2019)	Д	۵	О				
3370-000	3370-000 Administration Building Repair Design (2019)	Д	D	Э				
3371-000	3371-000 West Slope Protection Evaluation (2019)	Д	Д					
3372-000	3372-000 Motor Control Center A, G, H Design (2019)	Q	D	D				
3373-000	3373-000 Southside Plant Flooding Evaluation (2019)	Д	Д					
3374-000	SE Electrical Manhole Reconstruction (2018)	Q	O					
	Dewatering Room Floor Sealing and Lighting							
3376-000 (2019)	(2019)	D	B&A	С				
		Д	Planning			D	Design	
		CA	Condition	Condition Assessment	ent	B&A	Bidding and Award	d Award
		ENV	Environm	Environmental/Permitting	nitting	C	Construction	L.

### MINUTES OF REGULAR MEETING OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

### **Engineering Committee**

### February 14, 2019

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee was held on Thursday, February 14, 2019, at 8:30 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members present:

MIKE MARQUIS City of San Juan Capistrano [exit 9:34 a.m.]

DON BUNTS Santa Margarita Water District [arrival 9:00 a.m.] [exit 9:33 a.m.]

JOE McDIVITT

MIKE DUNBAR

ROD WOODS

South Coast Water District

Emerald Bay Service District

Moulton Niguel Water District

DENNIS CAFFERTY El Toro Water District

LORRIE LAUTSEN Trabuco Canyon Water District
KEVIN BURTON Irvine Ranch Water District

Absent:

DAVE REBENSDORF City of San Clemente
DAVID SHISSLER City of Laguna Beach

Staff present:

BRIAN PECK Director of Engineering
BETTY BURNETT General Manager [arrival 8:48]

JASON MANNING Senior Engineer
RONI YOUNG-GRANT Associate Engineer

JIM BURROR Director of Operations [exit 8:45 a.m.]
JEANETTE COTINOLA Procurement/Contracts Administrator

Also Present:

DENNIS ERDMAN South Coast Water District

### 1. Call Meeting to Order

Mr. Manning called the meeting to order at 8:31 a.m. and welcomed everyone present.

### 2. Public Comments

Mr. Manning asked if members of the public desired to address the Engineering Committee or desired to reserve addressing the Engineering Committee during the meeting regarding any item on the Agenda. No comments were received.

### 3. Review/Approval of Meeting Minutes (June '18 and January '19)

### **ACTION TAKEN**

Motion was made by Mr. Dunbar and seconded by Mr. Woods to approve the June 14, 2018, and January 17, 2019, Engineering Committee Meeting minutes as submitted.

Motion carried: Aye 7; Nay 0; Abstain 0; Absent 3

Mike Dunbar Aye Kevin Burton Aye Joe McDivitt Aye Rod Woods Aye Mike Marguis Ave Dave Rebensdorf Absent Don Bunts Absent Lorrie Lausten Ave Dennis Cafferty Ave David Shissler Absent

### 4. Operations Report

### **DISCUSSION**

Mr. Burror reported that due to the current rainfall Aliso Creek and Wood Canyon Creek are flowing outside of their normal channels. There is currently no access to the Coastal Treatment Plant (CTP) as the Wood Canyon Creek flows are flooding out the Access Road. The Regional Treatment Plant (RTP) is receiving flows in excess of 13 mgd this morning. An open discussion ensued.

### ACTION TAKEN

Information item only.

### 5. Cost Allocation Report Presentation

### **DISCUSSION**

Mr. Burror noted that the Cost Allocation Report was received on February 2, 2019. The reports have been sent out electronically with a comment form. The staff from the Member Agencies are being asked to either complete the comment form or to provide a marked-up copy with comments. Mr. Burror stated that he was available to meet to discuss the report. An open discussion ensued.

### **ACTION TAKEN**

Information item only.

### 6. Co-Generation System Status Report

### DISCUSSION

Mr. Manning reported that staff was preparing monthly and annual reports on the operating status of the co-generation systems at RTP and the J. B. Latham Treatment Plant (JBLTP). Staff would be closing out the RTP project with Pacific Hydrotech once the punch list items had been completed.

### **ACTION TAKEN**

Information item only.

### 7. Innovative Biosolids RFP Status Report (Project Committees 2 and 17)

### **DISCUSSION**

Mr. Manning reported that the request for proposals (RFP) was issued. A pre-proposal meeting was held on February 12, 2019.

### **ACTION TAKEN**

Information item only.

### 8. Review of Engineering Services Proposals - Regional Treatment Plant Motor Control Center (Project Committee 17)

### DISCUSSION

Mr. Manning provided a brief review of the proposals. An open discussion ensued.

### **ACTION TAKEN**

The present Project Committee No. 17 members agreed on a recommendation to the SOCWA Board of Directors for an award of contract to Lee & Ro.

### 9. Review of Bids – Regional Treatment Plant Miscellaneous Improvements 2018 (Project Committee 17)

### **DISCUSSION**

Mr. Peck reported that three (3) bids were received for the project and opened on February 12, 2019. Mr. Peck noted that the bids were significantly higher than the Engineer's Estimate. SOCWA staff is scheduling meetings with the designer and the apparent low bidder (Filanc) to review the bids. There is no recommendation for the award of contract at this time.

### **ACTION TAKEN**

Information item only.

### 10. Regional Treatment Plant Draft Capital Improvement Budget Fiscal Year 2019/20 (Project Committee 17)

### DISCUSSION

Mr. Peck reminded the Engineering Committee members of the 10:30 a.m. March 5, 2019, Joint Engineering Committee and Finance Committee Meeting. Ms. Burnett reported the meeting will be to discuss the concerns from member agencies regarding cash on hand for capital projects and working capital projects from an Engineering prospective.

Mr. Peck reviewed the Agenda Item as submitted with the Engineering Committee. An open discussion ensued.

### **ACTION TAKEN**

Information item only.

### 11. <u>Regional Treatment Plant AWT Upgrade Project Status</u> (Project Committee 17) <u>DISCUSSION</u>

Mr. Manning provided a brief summary of the project and reviewed the submitted Change Orders 1, 2, 3 and 4. Mr. Manning noted that these items had been previously reviewed with Moulton Niguel Water District (MNWD) staff. MNWD has full ownership of the advanced wastewater treatment (AWT) facilities at the RTP.

### **ACTION TAKEN**

The present Project Committee 17 members agreed on a recommendation to the SOCWA Board of Directors for approval of Change Orders 1 through 4.

### 12. AWMA Road Repair Cost Allocation (Project Committees 15 and 21)

### **DISCUSSION**

Ms. Young noted that FEMA has guaranteed a minimum repayment of road and embankment repair costs. Ms. Young reviewed the proposed allocation of the repair costs and the FEMA payment to the member agencies. SOCWA staff was in the process of preparing backup documentation in hopes of obtaining additional funding for the road repair. An open discussion ensued.

### <u>ACTION TAKEN</u>

Information item only.

### 13. Coastal Treatment Plant Aeration Upgrade Technical Memorandum Presentation

### **DISCUSSION**

Mr. Manning reported that Item 13 was to be deferred to the next Engineering Committee Meeting.

### **ACTION TAKEN**

Item deferred item to the next Engineering Committee meeting.

### 14. <u>Coastal Treatment Plant Draft Capital Improvement Budget Fiscal Year 2019/20</u> (Project Committee 15)

### DISCUSSION

Mr. Peck provided a brief overview of the CTP Draft Capital Improvement Budget as submitted. An open discussion ensued.

Mr. Woods noted for the record that going forward MNWD was not going to be supporting projects that fall under Section 8.2 of the Agreement.

### **ACTION TAKEN**

Information item only.

### 15. Coastal Treatment Plant AWT Upgrade Project Status Report

### (Project Committee 15)

### DISCUSSION

Ms. Young reviewed Change Order 1 with the Engineering Committed as submitted. It was noted that this change order impacts only the South Coast Water District as this project is solely related to the CTP AWT.

### **ACTION TAKEN**

The present Project Committee 15 members agreed on a recommendation to the SOCWA Board of Directors for approval of Change Order 1. Mr. Woods noted that the Moulton Niguel Water District abstained from discussion of this project.

### **Adjournment**

There being no further business, Mr. Manning adjourned the meeting at 9:53 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Regular Meeting of the South Orange County Wastewater Authority Engineering Committee

of February 14, 2019, and approved by the Board of Directors of the South Orange County Wastewater Authority.

Betty Burnett, General Manager/Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

### Agenda Item

**Budgeted**: Yes

**Budget Amount: \$6,699,500** 

Line Item: PC 2, Tasks 3551-000, 3355-

000 and 3356-000

Legal Counsel Review: No

Meeting Date: April 4, 2019

**TO:** Project Committee No. 2 Board of Directors

FROM: Betty Burnett, General Manager

**STAFF CONTACT:** Roni Young, Associate Engineer

**SUBJECT:** Construction Contract for Olsson Construction for the J. B. Latham

Treatment Plant Package "B" Improvements Project

### Summary

This agenda item provides a recommendation for actions related to the award of a construction contract to Olsson Construction for the J. B. Latham Treatment Plant (JBLTP) Package "B" Improvements Project.

### Background

The JBLTP Package "B" Improvements Project includes the following key elements:

- 1. Rehabilitation of piping and valves at the Effluent Pump Station
- 2. Limited equipment rehabilitation of Plant 2 Secondary Sedimentation Basins
- 3. Structural and equipment rehabilitation of the Plant 1 Secondary Sedimentation Basins
- 4. Structural and equipment rehabilitation of the Primary Effluent Channel (Plant 1 portion)
- 5. Structural and equipment rehabilitation of the Plant 1 Primary Influent Channel and Sedimentation Basins
- 6. Structural and equipment rehabilitation of the Plant 2 Primary Influent Channel Basins
- 7. Structural and equipment rehabilitation of Dissolved Air Flotation Thickener Nos. 1 and 2
- 8. Construction of a new Thickened Waste Activated Sludge Pump Station
- 9. Cleaning and equipment rehabilitation of the Digester 1 and 2 mixing and heating systems
- 10. Structural rehabilitation of the Digesters 1 and 2 Control Building roof
- 11. Equipment rehabilitation of the Digester 3 and Digester 4 heating systems
- 12. Replacement of the Digesters 3 and 4 Control Building roof stairs
- 13. Construction of a new boiler inside of the Energy Recovery Building
- 14. Removal of the existing boiler within the Digesters 1/2 Control Building
- 15. Seismic improvements to the Energy Building

- 16. Structural rehabilitation of the Dewatering Building and Energy Recovery Building roof including the replacement of the skylights
- 17. Construction of a new monorail system inside of the Energy Building
- 18. Demolition of the existing Laboratory Building
- 19. Miscellaneous plant-wide safety improvements for fall protection
- 20. Structural and coating repairs within Digester 4
- 21. Mechanical, electrical and instrumentation improvements associated with Digester 4 rehabilitation

The bidding documents included drawings and specifications by two design firms. Items 1-19. In the list above constituted the Package "B" Improvements as designed by Carollo Engineers. Items 20 and 21 were part of the Digester 4 Upgrade designed by Tetra Tech.

### **Discussion/Analysis**

### **Bidding Process**

Bidding documents were made available to the following list of contractors on January 29, 2019:

- Filanc
- Gateway Pacific
- Olsson Construction
- Pacific Hydrotech
- Pascal & Ludwig
- S.S. Mechanical Construction
- Walsh Construction

Three bids were received and opened on March 7, 2019. The results of these bids are summarized in Table 1. A tabulation of the bids is attached in Exhibit A. The apparent low bidder is Olsson Construction.

Table 1 - Overall Bid Prices

Contractor	Bid Price
Filanc	\$ 17,505,771.00
Olsson Construction	\$ 17,325,000.00
Pacific Hydrotech	\$ 18,966,300.00

### Bid and Budget Evaluation

The apparent low bid by Olsson Construction is compared with the engineer's estimate in Table 2. The bid came in slightly lower than the engineer's estimate.

Table 2 - Comparison of Apparent Low Bid and Engineer's Estimate

Bid Category	Work Item	Apparent Low Bid: Olsson Construction	Engineer's Estimate
Α	Effluent Pump Station	\$960,000.00	\$1,250,742.41
В	Basin Upgrades	\$6,510,000.00	\$7,564,176.55
	DAF, TWAS, Digester Mixing		
С	System and Control Buildings	\$4,745,000.00	\$2,343,704.00
D	Lab Demolition	\$330,000.00	\$98,861.05
E	Digester 4 Heating System	\$1,130,000.00	\$1,148,429.88
	Energy Recovery Building Improvements		\$700,464.45
F	Energy Building Monorail System	\$190,000.00	
G	Energy Building Room Imps.	\$330,000.00	
Н	Energy Building Seismic Imps.	\$180,000.00	
I	Liquids Area Safety Improvements	\$240,000.00	\$497,678.49
J	Solids Area Safety Improvements	\$20,000.00	\$55,297.61
K	Boiler System Improvements	\$690,000.00	
	Electrical and I&C		\$2,778,852.74
L	Fiber Loop Completion	\$180,000.00	
М	MCC Upgrades	\$310,000.00	
N	Digester 4 Rehabilitation	\$1,510,000.00	\$1,190,000.00
	TOTAL BID	\$17,325,000.00	\$17,628,207.18

The capital improvement budget for Fiscal Year 2018/19 included three items that would address the first year of construction for Package "B". Separate budgets would be established in Fiscal Year. The budgetary status of these items is presented in Table 3.

Table 3 - Current Budget Status

Project Committee	Task	Description	Budget	Expended to Date	Remaining Budget
		Facility Improvements "B" Basin Upgrades			
2	3551-000	Construction I (2019)	\$3,195,000	\$0	\$3,195,000
2	3355-000	Digester No.4 Rehabilitation I (2019)	\$994,500	\$0	\$994,500
		Facility Improvements "B" – DAFT and Ancillary Solids			
2	3356-000	Improvements (2019)	\$2,510,000		\$2,510,000
	·	Total	\$6,699,500	\$0	\$6,699,500

Table 4 shows the overall funding required for the project. This table also includes the values for the engineering services during construction (ESDC) and the most expensive of the four (4) construction management (CM) proposals. The construction management element of the

project is subject to interviews being conducted by the Engineering Committee on April 2019. The projected cost in Table 4 also includes an overall 8% allowance for contract amendments.

Table 4 - Project Bid and Contingency

Work Item	Total Budget	Apparent Low Bid by Olsson Construction	ESDC	СМ	Continge	ncy
Package "B" Liquids Improvements	\$9,359,881	\$7,710,000	\$417,574	\$615,506	\$616,800	8%
Package "B" Common Improvements	\$1,468,930	\$1,210,000	\$65,534	\$96,597	\$96,800	8%
Package "B" Solids Improvements	\$9,752,261	\$8,405,000	\$443,599	\$646,241	\$672,400	8%
Total	\$20,581,072	\$17,325,000	\$926,707	\$13,58,344	\$1,386,000	8%

### **Advisory Committee Review**

The J. B. Latham Treatment Plant Package "B" Improvements Project bids were reviewed by the members of the Project Committee No. 2 Engineering Committee on March 14, 2019. The Engineering Committee recommended the award of the project to Olsson Construction.

### **Fiscal Impact**

The proposed construction contract amount with Olsson Construction is \$ 17,325,000.

Approximately, \$3,707,500 were collected from the Project Committee No. 2 member agencies in Fiscal Year 2018/2019 for budget lime items 3551-000, 3355-000 and 3356-000. Given the award date for the construction, it is unlikely that any funds will be expended for construction in Fiscal Year 2018/2019. These funds may then be applied to the projected expenditures in Fiscal Year 2018/2019. The anticipated phasing of budget is as presented in Exhibit B. This approach assumes that each year of construction has a unique budget line item.

The allocation of the proposed construction cost is presented in Table 5.

Table 5 - Allocation of Proposed Project Costs

Project Committee 2	Liquids	Common	Solids	Total
Member Agency	Allocation	Allocation	Allocation	Allocation
Moulton Niguel Water District	\$1,779,468.00	\$270,422.90	\$1,817,161.00	\$3,867,051.90
City of San Juan Capistrano	\$2,372,367.00	\$367,658.50	\$2,521,500.00	\$5,261,525.50
Santa Margarita Water District	\$1,334,601.00	\$276,400.30	\$2,385,339.00	\$3,996,340.30
South Coast Water District	\$2,223,564.00	\$295,518.30	\$1,681,000.00	\$4,200,082.30
TOTAL	\$7,710,000.00	\$1,210,000.00	\$8,405,000.00	\$17,325,000.00

### **Requested Action**

The following actions are requested:

The Project Committee No. 2 Board of Director to approve award of construction contract to Olsson Construction at a price not to exceed \$17,325,000.

### **EXHIBIT A: BID SUMMARY**

### J. B. LATHAM TREATMENT PLANT FACILITY IMPROVEMENTS "B"

	Base Bid Items A - Effluent			
	Pump Station	Filanc	Olsson	Pacific Hydrotech
1	Mobilization/Demobilization	\$107,680	\$10,000	\$100,000
2	Demolition	\$133,862	\$200,000	\$42,300
3	Effluent Valve Vaults	\$315,048	\$60,000	\$322,600
4	Effluent Pump Station Mechanical	\$355,297	\$450,000	\$569,000
	Effluent Pump Station Electrical			
5	and I&C	\$37,817	\$200,000	\$222,800
6	Other	\$39,936	\$40,000	\$15,200
	TOTAL BASE BID	\$989,640.00	\$960,000.00	\$1,271,900.00
	Base Bid Items B - Plant 1			
	Primary and Secondary, Plant 2			
	Primary and Secondary			
	Upgrades	Filanc	Olsson	Pacific Hydrotech
1	Mobilization/Demobilization	\$471,137	\$140,000	\$250,000
2	Demolition	\$1,109,850	\$540,000	\$1,754,300
3	Structural Improvements	\$1,173,889	\$900,000	\$1,410,600
4	Concrete Repair	\$420,269	\$470,000	\$194,000
5	Mechanical Improvements	\$2,831,524	\$3,000,000	\$2,272,800
6	Plant 1 Electrical and I&C	\$100,551	\$700,000	\$791,200
7	Other	\$0	\$760,000	\$749,900
	TOTAL BASE BID	\$6,107,220.00	\$6,510,000.00	\$7,422,800.00
	Base Bid Items C - DAF and TWAS System, Digesters Mixing System, Control Building and Heating System Upgrades	Filanc	Olsson	Pacific Hydrotech
1 1	Mobilization/Demobilization	\$269,200	\$90,000	\$150,000
2	Demolition	\$166,553	\$440,000	\$234,200
3	Structural Improvements	\$210,976	\$700,000	\$567,400
H ,	Civil and Mechanical	Ψ210,570	ψ100,000	φοστ, ποσ
4	Improvements	\$3,050,936	\$2,585,000	\$2,592,900
5	Electrical and I&C Improvements	\$1,084,954	\$750,000	\$855,600
6	Other	\$0	\$130,000	\$145,200
	TOTAL BASE BID	\$4,782,619.00	\$4,695,000.00	\$4,545,300.00
	Base Bid Items D - Laboratory	. , . ,	. , ,	. ,,
	Building Demolition and Miscellaneous Concrete Repairs	Filanc	Olsson	Pacific Hydrotech
1	Miscellaneous Concrete Repairs  Mobilization/Demobilization	\$310,783	\$10,000	\$40,000
2	Miscellaneous Concrete Repairs  Mobilization/Demobilization  Demolition	\$310,783 \$108,645	\$10,000 \$300,000	\$40,000 \$140,200
3	Miscellaneous Concrete Repairs  Mobilization/Demobilization  Demolition  Civil/Site Improvements	\$310,783 \$108,645 \$6,537	\$10,000 \$300,000 \$20,000	\$40,000 \$140,200 \$39,600
2	Miscellaneous Concrete Repairs  Mobilization/Demobilization  Demolition  Civil/Site Improvements  Other	\$310,783 \$108,645 \$6,537 \$0	\$10,000 \$300,000 \$20,000 \$0	\$40,000 \$140,200 \$39,600 \$100
3	Miscellaneous Concrete Repairs  Mobilization/Demobilization  Demolition  Civil/Site Improvements  Other  TOTAL BASE BID	\$310,783 \$108,645 \$6,537	\$10,000 \$300,000 \$20,000	\$40,000 \$140,200 \$39,600
3	Miscellaneous Concrete Repairs  Mobilization/Demobilization  Demolition  Civil/Site Improvements  Other	\$310,783 \$108,645 \$6,537 \$0	\$10,000 \$300,000 \$20,000 \$0	\$40,000 \$140,200 \$39,600 \$100
3	Miscellaneous Concrete Repairs  Mobilization/Demobilization  Demolition  Civil/Site Improvements  Other  TOTAL BASE BID  Base Bid Items E - Digester 4	\$310,783 \$108,645 \$6,537 \$0 \$425,965.00	\$10,000 \$300,000 \$20,000 \$0 \$330,000.00	\$40,000 \$140,200 \$39,600 \$100 \$219,900.00
3 4	Miscellaneous Concrete Repairs  Mobilization/Demobilization  Demolition  Civil/Site Improvements  Other  TOTAL BASE BID  Base Bid Items E - Digester 4  Heating System	\$310,783 \$108,645 \$6,537 \$0 \$425,965.00	\$10,000 \$300,000 \$20,000 \$0 \$330,000.00	\$40,000 \$140,200 \$39,600 \$100 \$219,900.00 Pacific Hydrotech
2 3 4	Miscellaneous Concrete Repairs  Mobilization/Demobilization Demolition Civil/Site Improvements Other TOTAL BASE BID Base Bid Items E - Digester 4 Heating System Mobilization/Demobilization	\$310,783 \$108,645 \$6,537 \$0 \$425,965.00 Filanc \$323,040.00	\$10,000 \$300,000 \$20,000 \$0 \$330,000.00 <b>Olsson</b> \$50,000.00	\$40,000 \$140,200 \$39,600 \$100 \$219,900.00 Pacific Hydrotech \$150,000.00 \$16,100.00
2 3 4	Miscellaneous Concrete Repairs  Mobilization/Demobilization Demolition Civil/Site Improvements Other TOTAL BASE BID Base Bid Items E - Digester 4 Heating System Mobilization/Demobilization Demolition	\$310,783 \$108,645 \$6,537 \$0 \$425,965.00 Filanc \$323,040.00 \$12,460.00	\$10,000 \$300,000 \$20,000 \$0 \$330,000.00 <b>Olsson</b> \$50,000.00 \$30,000.00 \$520,000.00 \$470,000.00	\$40,000 \$140,200 \$39,600 \$100 \$219,900.00 Pacific Hydrotech \$150,000.00 \$16,100.00 \$746,600.00
2 3 4 1 2 3	Miscellaneous Concrete Repairs  Mobilization/Demobilization Demolition Civil/Site Improvements Other TOTAL BASE BID Base Bid Items E - Digester 4 Heating System Mobilization/Demobilization Demolition Mechanical Improvements	\$310,783 \$108,645 \$6,537 \$0 \$425,965.00 Filanc \$323,040.00 \$12,460.00 \$275,306.00	\$10,000 \$300,000 \$20,000 \$0 \$330,000.00 <b>Olsson</b> \$50,000.00 \$30,000.00 \$520,000.00	\$40,000 \$140,200 \$39,600 \$100 \$219,900.00 <b>Pacific Hydrotech</b> \$150,000.00

	Base Bid Items F - Energy			
	Building Monorail System	Filanc	Olsson	Pacific Hydrotech
	Mobilization/Demobilization	\$5,384.00	\$0.00	\$20,000.00
N	Monorail/Roof and Structural			
	Seismic Improvements	\$136,740.00	\$110,000.00	\$155,000.00
	Electrical Improvements	\$10,994.00	\$70,000.00	\$69,200.00
	Other	\$0.00	\$10,000.00	\$4,200.00
1	OTAL BASE BID	\$153,118.00	\$190,000.00	\$248,400.00
E	Base Bid Items G - Energy			
	Building Roof Improvements	Filanc	Olsson	Pacific Hydrotech
	Mobilization/Demobilization	\$26,920.00	\$10,000.00	\$20,000.00
	Building Roof	\$294,946.00	\$320,000.00	\$205,300.00
	Other	\$0.00	\$0.00	\$100.00
_	OTAL BASE BID	\$321,866.00	\$330,000.00	\$225,400.00
	Base Bid Items H - Energy	<b>4</b> -2-1,000100	<b>4</b> 000,000.00	<del></del> ,
	Building Seismic Improvements	Filanc	Olsson	Pacific Hydrotech
	Mobilization/Demobilization	\$10,768.00	\$0.00	\$40,000.00
	Seismic Improvements	\$90,002.00	\$180,000.00	\$415,300.00
	Other	\$0.00	\$0.00	\$12,000.00
_	OTAL BASE BID	\$100,770.00	\$180,000.00	\$467,300.00
	Base Bid Items I - Liquids	<b>\$133,113.33</b>	<b>ψ.00,000.00</b>	Ψ.σ.,σσσ.σ.
	Facility Safety Improvements	Filanc	Olsson	Pacific Hydrotech
	Mobilization/Demobilization	\$10,768.00	\$10,000.00	\$50,000.00
		¥ : 0,1 : 00 : 00	<b>¥10,000</b>	<del>*************************************</del>
2 L	iquids Area Safety Improvements	\$193,305.00	\$230,000.00	\$549,600.00
	Other	\$0.00	\$0.00	\$100.00
1	OTAL BASE BID	\$204,073.00	\$240,000.00	\$599,700.00
E	Base Bid Items J - Solids			
F	acility Safety Improvements	Filanc	Olsson	Pacific Hydrotech
1 N	Mobilization/Demobilization	\$10,768.00	\$0.00	\$40,000.00
2 5	Solids Area Safety Improvements	\$118,676.00	\$20,000.00	\$157,500.00
3 (	Other	\$0.00	\$0.00	\$100.00
1 1	OTAL BASE BID	\$129,444.00	\$20,000.00	\$197,600.00
E	Base Bid Items K - Boiler			
	System Improvements	Filanc	Olsson	Pacific Hydrotech
1 1	Mobilization/Demobilization	\$91,528.00	\$10,000.00	\$40,000.00
	Mechanical Improvements	\$399,155.00	\$620,000.00	\$881,000.00
	Electrical and I&C	\$218,552.00	\$40,000.00	\$44,600.00
	Other	\$0.00	\$20,000.00	\$24,000.00
1	OTAL BASE BID	\$709,235.00	\$690,000.00	\$989,600.00
E	Base Bid Items L - Fiber Loop			
(	Completion	Filanc	Olsson	Pacific Hydrotech
	Mobilization/Demobilization	\$269,200.00	\$0.00	\$50,000.00
	Electrical and I&C	\$580,526.00	\$180,000.00	\$112,500.00
	Other	\$33,615.00	\$0.00	\$100.00
1 1	OTAL BASE BID	\$883,341.00	\$180,000.00	\$162,600.00
<u> </u>	Base Bid Items M - MCCs			
ι	Jpgrades	Filanc	Olsson	Pacific Hydrotech
1 N	Mobilization/Demobilization	\$134,600.00	\$10,000.00	\$50,000.00
	MCCs Upgrades	\$315,136.00	\$300,000.00	\$351,700.00
	Other	\$0.00	\$0.00	\$54,000.00
	OTAL BASE BID	\$449,736.00	\$310,000.00	\$455,700.00

	Base Bid Items N - Digester 4			
	Rehabilitation	Filanc	Olsson	Pacific Hydrotech
1	Mobilization/Demobilization	\$269,200.00	\$60,000.00	\$110,000.00
2	Demolition	\$151,567.00	\$190,000.00	\$110,700.00
3	Digester 4 Rehabilitation	\$784,491.00	\$600,000.00	\$647,000.00
4	Electrical and I&C	\$11,511.00		
5	Other	\$0.00	\$520,000.00	\$10,400.00
	TOTAL BASE BID	\$1,216,769.00	\$1,510,000.00	\$930,900.00
		Filanc	Olsson	Pacific Hydrotech
	TOTAL ALL BASE BID	\$17,459,361.00	\$17,275,000.00	\$18,926,300.00

Add/Deduct (In Specific Items in Item C4 - Deduct Italics) \$142,394

Item B3 - Add \$ 89,000

	BID ADDITIVE ITEMS	Filanc	Olsson	Pacific Hydrotech
0	Spare Digester Mixing Pump	\$46,410.00	\$50,000.00	\$40,000.00

### BID SUMMARY STATEMENTS BY BIDDER

Suppliers	Filanc	Olsson	Pacific Hydrotech
Stainless Steel Slide Gates	Fontaine	Fontaine	Fontaine
Single-Lobe Rotary Pumps	Vogelsang	Boerger	Boerger
Tipping Trough Scum Skimming			
Equipment	Brentwood	Brentwood	Brentwood
Helical Scum Skimming			
Equipment	Brentwood	Brentwood	Brentwood
Sedimentation Basin Sludge			
Collectors	Brentwood	Brentwood	Brentwood
Circular DAF System	Ovivo	Ovivo	Ovivo
Spiral Heat Exchanger	Alpha Laval	Gooch	Alpha Laval
Aluminum Covers	Hallsten	Hallsten	Hallsten
Check Valves	Apco	Crispin	Crispin
Plug Valves	Valmatic	Crispin	Crispin
Telescoping Valves	Troy	Troy	Troy
Three-Way Temperature Control			-
Valves	Koso	Koso	Koso
Hot Water Boiler	Hurst	Hurst	Hurst
VFDs	Eaton	Allen Bradley	Allen Bradley
MCCs	Eaton	Allen Bradley	Allen Bradley
Ultrasonic Level Instruments	Siemens	Siemens	Siemens
Magnetic Flowmeters	Sparling	Sparling	Sparling
PLC	Rockwell	Allen Bradley	Allen Bradley
Digester Accessories	Shand & Jurs	Varec	Varec
Subcontractors	Filanc	Olsson	Pacific Hydrotech
Electrical and I&C	Big Sky Electric	CSI Electrical	CSI Electrical
Coatings	National Coating	Murphy Industrial	National Coating
Roofing	Golden State Roofing	Stone Roofing	Stone Roofing

EXHIBIT B: TOTAL CONSTRUCTION COST AND PHASING
J. B. LATHAM TREATMENT FACILITY IMPROVEMENTS PACKAGE 'B'

			FY 2019-20				Ш	FY 2020-21			
	Work Plan	1st QTR	2nd QTR	3rd QTR	4th QTR	Work Plan	1st QTR	2nd QTR	3rd QTR	4th QTR	TOTAL
Percentage	%0.09	10.0%	15.0%	20.0%	15.0%	40.0%	15.0%	15.0%	7.5%	2.5%	
Contractor											
- Liquids	\$4,626,000	\$771,000	\$1,156,500	\$1,542,000	\$1,156,500	\$3,084,000	\$1,156,500	\$1,156,500	\$578,250	\$192,750	\$7,710,000
- Common	\$726,000	\$121,000	\$181,500	\$242,000	\$181,500	\$484,000	\$181,500	\$181,500	\$90,750	\$30,250	\$1,210,000
- Solids	\$4,857,000	\$809,500	\$1,214,250	\$1,619,000	\$1,214,250	\$3,238,000	\$1,214,250	\$1,214,250	\$607,125	\$202,375	\$8,095,000
Engineering Services during Construction	s during Constru	ction									
- Liquids	\$250,545	\$41,757	\$62,636	\$83,515	\$62,636	\$167,030	\$62,636	\$62,636	\$31,318	\$10,439	\$417,574
- Common	\$39,320	\$6,553	\$9,830	\$13,107	\$9,830	\$26,213	\$9,830	\$9,830	\$4,915	\$1,638	\$65,534
- Solids	\$218,052	\$36,342	\$54,513	\$72,684	\$54,513	\$145,368	\$54,513	\$54,513	\$27,257	\$9,086	\$363,420
Construction Management	yement										
- Liquids	\$369,304	\$61,551	\$92,326	\$123,101	\$92,326	\$246,202	\$92,326	\$92,326	\$46,163	\$15,388	\$615,506
- Common	\$57,958	\$9,660	\$14,490	\$19,319	\$14,490	\$38,639	\$14,490	\$14,490	\$7,245	\$2,415	\$96,597
- Solids	\$387,745	\$64,624	\$96,936	\$129,248	\$96,936	\$258,496	\$96,936	\$96,936	\$48,468	\$16,156	\$646,241
Change Order											
Contingency											
- Liquids	\$370,080	\$61,680	\$92,520	\$123,360	\$92,520	\$246,720	\$92,520	\$92,520	\$46,260	\$15,420	\$616,800
- Common	\$58,080	\$9,680	\$14,520	\$19,360	\$14,520	\$38,720	\$14,520	\$14,520	\$7,260	\$2,420	\$96,800
- Solids	\$388,560	\$64,760	\$97,140	\$129,520	\$97,140	\$259,040	\$97,140	\$97,140	\$48,570	\$16,190	\$647,600
Total	\$12,348,643 \$2,058,107	\$2,058,107	\$3,087,161	\$4,116,214	\$3,087,161	\$8,232,429	\$3,087,161	\$3,087,161	\$1,543,580	\$514,527	\$20,581,072

			FY 2019-20				ш	FY 2020-21			
Member Agency Allocation	Work Plan	1st QTR	2nd QTR	3rd QTR	4th QTR	4th QTR Work Plan	1st QTR	2nd QTR	3rd QTR	4th QTR	TOTAL
Moulton Niguel Water District	\$2,758,194	\$2,758,194 \$459,699	\$689,549	\$919,398	\$689,549	\$689,549 \$1,838,796	\$689,549	\$689,549	\$689,549 \$344,774 \$114,925	\$114,925	\$4,596,991
City of San Juan Capistrano	\$3,751,229	\$3,751,229 \$625,205		\$937,807 \$1,250,410	\$937,807	\$937,807 \$2,500,819	\$937,807	\$937,807	\$937,807 \$468,904 \$156,301	\$156,301	\$6,252,048
Santa Margarita Water District	\$2,834,061	\$472,344	\$708,515	\$944,687	\$708,515	\$708,515 \$1,889,374	\$708,515	\$708,515	\$708,515 \$354,258 \$118,086	\$118,086	\$4,723,435
South Coast Water District	\$3,005,159	\$3,005,159 \$500,860	\$751,290 \$1,001,7	\$1,001,720		\$751,290 \$2,003,439	\$751,290		\$375,645	\$125,215	\$751,290 \$375,645 \$125,215 \$5,008,599

# Agenda Item

**Budgeted:** Yes

Budget amount: \$128,000

Line Item: PC 2, 15 and 17 and Lines

Item 5015

Meeting Date: April 4, 2019

**TO:** Project Committee No. 2, 15 & 17 Board of Directors

FROM: Betty Burnett, General Manager

**STAFF CONTACT:** Jim Burror, Director of Operations

**SUBJECT:** Operational (O&M) Cost Distribution Report

### Summary

Carollo Engineering was retained by SOCWA to review and analyze the means and methods SOCWA used to distribute line item costs to member agencies for each Project Committee. This work supplements the Board level discussions about the fair share allocation of costs for energy, water, and chemicals among other items. Carollo Engineering has completed its work.

### **Discussion/Analysis**

The project included reviewing the current methods for apportioning budget line items back to the Member Agencies. The project also included assessing the apportionment methods and recommending potential changes to help ensure fair distribution of costs back to the Member Agencies.

The basis of the assessment was the FY 2017-18 Budget Book. A model was created to replicate the apportionment of costs in the FY 2017-18 Budget Book as the basis for the analysis. A number of meetings and outreach efforts were conducted to review the report material, including:

- October 4, 2018 Project update to SOCWA's Board.
- October 11, 2018 Project update to SOCWA's Engineering Committee.
- October 19, 2018 Distribution of proposed model inputs for review and comment to Member Agency Finance and Engineering staff.
- January 10, 2019 Project update report to SOCWA's Board and Engineering Committee.
- February 14, 2019 Project update and presentation to SOCWA's Engineering Committee.
- February 19, 2019 Project update and presentation to SOCWA's Finance Committee.
- March 8, 2019 Distribution of a staff memorandum regarding a proposed change for ocean outfall costs distribution from variable to fixed to Member Agency Finance and Engineering staff. This item was requested by SOCWA's Finance Committee at their February 19, 2019, meeting.
- March 14, 2019 Report update to SOCWA's Engineering Committee regarding a proposed change for ocean outfall costs distribution from variable to fixed.
- March 26, 2019 Report update and presentation to SOCWA's Finance Committee.

### **Member Agency Inputs**

The only substantive comment on the report materials was a request to review the Ocean Outfall permitting costs as to categorize them as fixed or variable. This issue was discussed with SOCWA's Engineering Committee. The consensus from SOCWA's Engineering Committee was that Ocean Outfall permitting costs should be a fixed cost and distributed based on capacity ownership. The change to the apportionment of the permit costs from variable to fixed based on 2017-18 budgeted costs is:

	Draft Report	Final Report	
Member Agency	Results	Results	Delta
City of San Juan Capistrano	(\$7,011)	(\$19,967)	(\$12,956)
Moulton Niguel Water District	(\$1,270)	\$18,031	\$19,301
South Coast Water District	(\$709)	\$3,574	\$4,283
Santa Margarita Water District	\$6,826	\$32,775	\$25,949
El Toro Water District	\$2,883	(\$8,317)	(\$11,200)
Irvine Ranch Water District	(\$6,180)	(\$17,537)	(\$11,357)
City of San Clemente	(\$646)	(\$7,825)	(\$7,179)
Trabuco Canyon Water District	\$0	\$0	\$0
Emerald Bay Service District	\$971	\$1,369	\$398
City of Laguna Beach	\$5,033	(\$2,197)	(\$7,230)
(RED is a decrease in costs) / Bla	ick is an increas	e in costs.	

The final draft report includes the current and proposed apportionments with the resulting fiscal impacts to the Member Agencies. The report also includes the justifications for the proposed changes. The net impact to the SOCWA agencies ranged from +1.76% to -10.82% of total budget costs. Table 17, "Losses/Gains (Proposed – Original)\*", from the report contains the resultant changes from analyzing the FY 2017-18 Budget. The table shows red items as budget decreases and black items as a budget increase.

						Lo	osses/Gain	s	(Proposed - Orig	in	<u>nal)*</u>							
*Rounding may impact these values																		
			PC2		PC5		PC8		Recycled Water		PC15		PC17	PC21	PC24			% of Total
	Member Agency	J.B.	Latham	9	SICOO	Pre	-Treatment*		Permits*		Coastal	R	tegional	ETM*	ACOO	Tot	al Change	PC Budget
1	City of San Juan Capistrano	\$	2,031	\$	(21,990)	\$	(8)	\$	0							\$	(19,967)	-1.23%
2	Moulton Niguel Water District	\$	2,153	\$	(1,825)	\$	(3)	\$	(2)	\$	\$ 5,251	\$	(21,049)	\$ (1)	\$ 33,508	\$	18,031	0.23%
3	South Coast Water District	\$	619	\$	(6,004)	\$	1	\$	8	\$	\$ (7,811)	\$	4,881		\$ 11,880	\$	3,574	0.11%
4	Santa Margarita Water District	\$	(4,856)	\$	37,623	\$	(1)	\$	10							\$	32,775	1.54%
5	El Toro Water District					\$	(10)					\$	8,966	\$ 4	\$ (17,277)	\$	(8,317)	-1.06%
6	Irvine Ranch Water District					\$	(4)	\$	11					\$ 4	\$ (17,549)	\$	(17,537)	-10.82%
7	City of San Clemente			\$	(7,823)	\$	(2)									\$	(7,825)	-7.63%
8	Trabuco Canyon Water District							\$	8							\$	8	0.03%
9	Emerald Bay Service District					\$	(2)			\$	\$ 494	\$	258		\$ 619	\$	1,369	1.76%
10	City of Laguna Beach					\$	4			\$	\$ 2,067	\$	6,891		\$ (11,160)	\$	(2,197)	-0.12%
	Rounding	\$	(54)	\$	(20)	\$	(24)	\$	35	Ş	\$ 2	\$	(53)	\$ 7	\$ 22	\$	(85)	
	Change in Total PC Budget	\$	-	\$	-	\$	-	\$	-	\$	\$ -	\$	-	\$ -	\$ -	\$		-

### **Finance Committee Input**

On March 26, 2019, the Finance Committee met and reviewed the staff recommendation included in this agenda item. The Finance Committee recommended that the Board of Directors receive and file this Operational Cost Distribution Analysis prepared by Carollo Engineers and share the historical outfall cost perspective with the Board of Directors.

A discussion that ensued focused on the potential to split the \$950,000 in outfall costs, including \$277,000 for NPDES permitting, between usage (variable) and ownership (fixed) apportionments. The historical perspective is that the PC agreements stated that the cost

distribution should be "fair and equitable". The 1976 PC5 agreement stated, "it is extremely difficult to establish in advance of actual operation of the Outfall a fair and equitable allocation of operation and maintenance costs of the Outfall." The PC 24 Agreement from 1976 and the 1996 Amendments state: "The cost of operating the Outfall shall be on the basis of average annual use in a fiscal year. The cost of maintenance, repair, or replacement of the Outfall shall be based on the percentage of ownership".

Staff reviewed past budgets to better understand the nature of the expenses and the methods for allocating those expenses. The expenses that occur today are associated with activities for maintaining the outfall permits. Staff reviewed the concept of maintenance in the PC agreements and determined that the NPDES permit, and associated monitoring, falls into the maintenance category. Therefore, the recommendation to shift the costs to fixed (ownership allocation) remains, as shown in the table below:

Capacity Rights Ownership (%)							
SJC	00	ACOO					
CSC	16.62%	11%	CLB				
CSJC	11.08%	0.78%	EBSD				
MNWD	15.51%	16.30%	ETWD				
SCWD	12.47%	15.76%	IRWD				
SMWD	44.32%	43.85%	MNWD				
		12.23%	SCWD				

It was noted in the Finance Committee discussion that the NPDES permit establishes limits based on the average monthly flow for each facility. These flows are determined during the 5-year permit cycle by the SOCWA's Technical Advisory Group consisting of a staff member from each of the participating member agencies. If member agencies would like to reduce their outfall discharge amount, they can make that recommendation through the TAG process which will reduce the permit cost that is based on flow. However, once permitted capacity is reduced there is a risk. If an agency would like to increase their permitted flows in the future, for example by adding brine discharges to the outfall systems, it may not be allowed under the anti-backsliding provisions of the Clean Water Act. For this reason, the Engineering Committee commented that preserving the existing outfall permitted flows was the best option. In the future as the issues of unused or stranded capacity is discussed in connection with potential JPA/PC Agreement revisions differing approaches could be considered.

### **Budget and Fiscal Impact**

The coming FY 2019-20 budget will include the recommended apportionments from the Carollo report. This includes a change to the FY 2018-19 Budget assumption 10.I; all costs for the outfalls will be allocated as fixed costs. The remaining changes from for the FY 2019-20 Budget include changing the following expenses from labor allocations to common ownership allocations:

- Standby Pay
- Small Vehicle Expenses
- Small Vehicle Fuel
- Recruitment
- Mileage Reimbursement

The remaining recommendations are for several Project Committee line item's; these are to be updated based on current usage. These include the following:

### PC2 – JB Latham Treatment Plant

Ferric Chloride from 80% Liquids and 20% Solids to 100% Solids

### PC15 - Coastal Treatment Plant

Electricity from 94% Liquids 2.5% AWT and 3.5% Common to 100% Liquids Natural Gas from 95% Liquids and 5% Common to 50% Liquids and 50% Common

### PC17 - Regional Treatment Plant

Ferric Chloride from 80% Liquids and 20% Solids to 100% Solids (budget assumption 1 0.i update)

### Recommendation

The Finance Committee recommends that the Board of Directors receive and file the March 20, 2019, Operational Cost Distribution Analysis prepared by Carollo Engineers. Staff is directed to proceed to include the report recommendations in the FY 2019-20 Draft Budget preparations.

attachment(s)

March 20, 2019, Operational Cost Distribution Analysis Finding and Recommendations Report (prepared by Carollo Engineers)

March 20, 2019, SOCWA Operational Cost Distribution Analysis (presentation slides)





South Orange County Wastewater Authority
OPERATIONAL COST DISTRIBUTION ANALYSIS

# Technical Memorandum OPERATIONAL COST DISTRIBUTION ANALYSIS FINDINGS AND RECOMMENDATIONS

March 20, 2019

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### Section 1

### INTRODUCTION

Beginning in 2015, SOCWA Board began a process of considering cost apportionments and agreed to review cost distributions for operational costs. The purpose of this Technical Memorandum (TM) is to summarize the results and proposed recommendations of the Operational Cost Distribution Analysis project performed by Carollo Engineers, Inc. (Carollo) for The South Orange County Wastewater Authority (SOCWA). This TM includes an overview of SOCWA's existing budget and cost distribution process (for Fiscal Year (FY) 2017-2018), and presents Carollo's proposed revisions to the methodology, and the associated impacts to SOCWA Member Agencies.

The purpose of the analysis is to provide a review of how SOCWA distributed costs for FY 17-18 and to identify potential changes to improve the supportability and/or clarity for future budgets.

### 1.1 SOCWA Organization, Budgeting, and Cost Distribution Overview

SOCWA was formed in 2001 with the mission to manage the collection, transmission, treatment, and disposal of wastewater for over 500,000 residences and businesses in south Orange County, California. SOCWA is a Joint Powers Authority with ten Member Agencies that each provide wastewater collection services to their residents. SOCWA is under the direction of a General Manager and is governed by a ten-member Board of Directors, which is comprised of representatives from each Member Agency. Table 1 lists these ten Member Agencies and the abbreviations utilized in this TM.

Table 1 SOCWA Member Agencies

Member Agency	Abbreviation
City of Laguna Beach	CLB
City of San Clemente	CSC
City of San Juan Capistrano	CSJC
El Toro Water District	ETWD
Emerald Bay Service District	EBSD
Irvine Ranch Water District	IRWD
Moulton Niguel Water District	MNWD
Santa Margarita Water District	SMWD
South Coast Water District	SCWD
Trabuco Canyon Water District	TCWD

SOCWA operates and maintains three treatment plants, two ocean outfalls, one effluent transmission main, and multiple permits to meet requirements under the National Pollutant Discharge Elimination System (NPDES). Each of these facilities and their associated Member Agencies are referred to as Project Committees (PC) (Table 2).



Member agencies, in their role as both user participants and capacity owners at each PC, are contractually responsible for contributing funding necessary to operate each PC. Pursuant to the Member Agencies agreements, SOCWA agencies share facilities costs based on budgeted and actual usage. Costs are grouped into the categories of "liquids", "solids", "AWT" (advanced water treatment), and "common." Usage is determined for liquids based on metered and assumed flows¹. Solids usage is determined by TSS and BOD expressed as pounds per day. The distribution of AWT costs is determined by ownership of the AWT facilities, regardless of flow. Operational costs may also be designated as common expenses related to general facility functions not otherwise characterized as liquids or solids. In June of each year, SOCWA establishes budgets based on prior annual and averaged periods of use². Each year, following the close of the fiscal year (June 30), costs are redistributed based on actual incurred liquids, common, and solids expenses and usage adjusted to actual.

Because utilities, chemicals, supplies and other expenses are incurred as bulk purchases to meet liquids, solids and common treatment purposes, historical cost distribution percentages are utilized to apportion costs to specific functions. Historical cost distribution approaches include metering, estimating, and evaluation of percentage to track purpose of the cost incurred. Since 2014, the SOCWA Board has made adjustments to move costs between liquids, solids and common expenses, considering factors such as the fixed or variable nature of the expenses incurred. This Operational Cost Distribution Analysis has been undertaken to go one step further and update the distribution approaches, evaluating the equity behind the apportionment methods, and to recommend adjustments.

Table 2 SOCWA Project Committees

Project Committee (PC) Number	PC Description		Member Agenci				
2	JB Latham WWTP	CSJC	MNWD	SCWD	SMWD		
5	San Juan Creek Ocean Outfall (SJCOO)	CSJC CSC	MNWD	SCWD	SMWD		
8	Pre-Treatment	CLB CSC CSJC	EBSD ETWD	IRWD MNWD	SCWD SMWD		
12	Recycled Water Permits	CSJC MNWD	SCWD	SMWD	TCWD		
15	Coastal WWTP	CLB	EBSD	MNWD	SCWD		
17	Regional WWTP	CLB EBSD	ETWD	MNWD	SCWD		
21	Effluent Transmission Main (ETM)	ETWD	IRWD	MNWD			
24	Aliso Creek Ocean Outfall (ACOO)	CLB EBSD	ETWD IRWD	MNWD	SCWD		

<sup>&</sup>lt;sup>1</sup> MNWD is assumed to contribute 1.4 mgd of flow to the J.B. Latham Treatment Plant (PC 2) and solids are assumed to be delivered to JBL in a strength that is equivalent to the influent flows to Plant 3A. This data is provided to SOCWA periodically from the operations staff at 3A.

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<sup>&</sup>lt;sup>2</sup> Member Agencies participate in review and approval of the budget projections and background flow/strength information used to prepare the Budgets.

### 1.2 Operational Budget Overview

Each year SOCWA creates an operating budget for each PC. The budget process begins in December with the SOCWA management team's review of the prior year's budget in order to identify areas of the budget that required adjustment from the prior year. At the same time, the Engineering Committee reviews ongoing and upcoming capital projects. SOCWA's General Manager then provides the Member Agency with the proposed budget, and holds a workshop to provide Member Agencies the opportunity to propose revisions. Mutually agreed-upon adjustments are made to the budget for Member Agency review and the final operating budget is presented to the Board of Directors for adoption in June. As noted above, budgets distribute usage costs to liquids, solids, AWT, and common purposes and propose apportionments for bulk incurred expenses with percentages assigned to equitably apportion based on the purpose of the expense. Costs that are not related to use, such as capital costs, are distributed based on facility ownership capacity with agencies owning differing percentages of liquids and solids capacity in each facility.

SOCWA invoices Member Agencies in equal quarterly amounts based on their share of the adopted budget. As noted above, at the end of each year, the budget is reconciled against actual expenses incurred, and the Member Agencies are credited or billed for the difference between budgeted and actual expenses for the given year. The budget process begins again with the actual expenses from the previous year(s) serving as the foundation for the next year's budget.

### Section 2

## **PROJECT SCOPE**

Carollo provided SOCWA with an analysis of its current cost apportionment methodology for each PC, and recommended potential modifications to streamline the process and increase efficiency. The focus of this TM is to review the methods by which expenses are apportioned among liquids, solids, AWT, common and recommend alternative approaches distribute costs to each PC and to the Member Agencies. This section provides information regarding the approach and scope of this study, as well as an explanation of historical cost distributions.

Carollo met with SOCWA staff to assess needs and request the information necessary to conduct a thorough and supportable analysis. Proposed adjustments to SOCWA's existing cost distribution methods were discussed with SOCWA staff, and feedback was considered in Carollo's proposed recommendations. The resulting operational cost distribution recommendations and accompanying model provides SOCWA with an improved platform for budget preparation.

Carollo's analysis is based on available data and relied on aggregated data provided by SOCWA for evaluation of labor and incurred expenses. Carollo developed a budget model using Microsoft Excel to facilitate adjustments to the budget data and to analyze the impacts. This model uses the FY 2017-18 budget data and allows for adjustments to apportionments and functional categories of expense accounts to estimate budget impacts. Figure 1 illustrates the focus of Carollo's review of the Operational Cost Distributions.



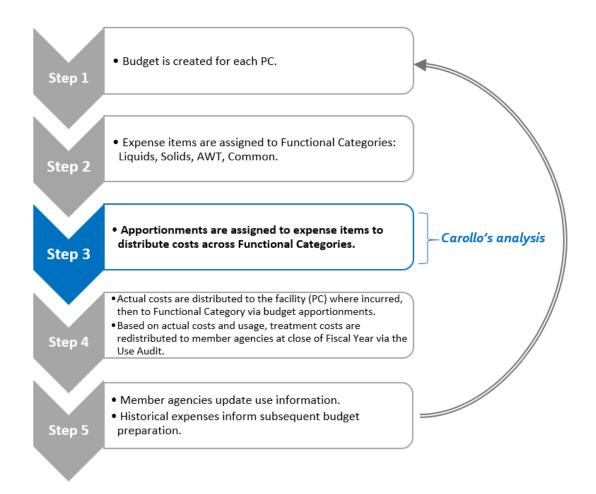


Figure 1 Operational Cost Distribution Analysis Project Scope

### 2.1 SOCWA Budget Process and Terminology

In Fiscal Year 2017-2018, SOCWA's operations and maintenance budget was \$18.0 million (per the Fiscal Year 2017-18 Total Operating Budget Report, Approved June 14, 2017). Table 3 shows the budget by PC. Carollo's proposed adjustments to the apportionment methodology do not alter SOCWA's overall budget or the budget for each PC. However, the proposed changes do change the overall dollar amounts payable by each Member Agency.



Table 3 Budget Breakdown by PC

PC#	Description	FY 17-18 Budget						
2	JB Latham Treatment Plant	\$5,689,556						
5	San Juan Creek Ocean Outfall	\$475,884						
8	Pre-Treatment	\$192,224						
12	Recycled Water Permits	\$244,872						
15	Coastal Treatment Plant	\$3,000,388						
17	Regional Treatment Plant	\$7,849,616						
21	Effluent Transmission Main	\$63,224						
24	Aliso Creek Ocean Outfall	\$474,196						
TOTAL BUDGET \$17,989,960								
Source: Fiscal Year 2017-18 Total Operating Budget Report (Approved June 14, 2017)								

### 2.1.1 Functional Categories

Functional Categories are the process areas within each PC that benefit from the specific expense. The primary Functional Categories include:

- Solids Expenses that benefit wastewater solids processes measured based on TSS and BOD as pounds per day of treated solids.
- Liquids Expenses that benefit wastewater liquids processes measured based on delivered wastewater flows. Measurement may be by metered flow or assumed flows.
- Advanced Water Treatment (AWT) Expenses related to advanced water treatment processes. AWT units are 100% cost distributed to single member agencies.
- **Common** Expenses that are specific only to the overall facility and neither specifically liquids, solids, nor AWT treatment process related.
- Outfall, Fixed Expenses that are accrued by the outfall's operation, regardless of flow.
- Outfall, Variable Expenses that are accrued by the outfall's operation, based on the amount of flow.

The Functional Categories that apply to each PC are identified in Appendix B.

### 2.1.2 Apportionment Basis

An Apportionment Basis is a group of similar actions identified for distribution of like costs. The proposed apportionments cover 22 different basic expenses and distribute costs across one or more Functional Categories (i.e. liquids, solids, AWT, common).

Table 4 lists the Apportionment Basis used in SOCWA's budgeting process. In the table, the Apportionment Basis shows grouping and color based on similarity of expenses. For example, the blue grouping includes staffing and timecard-related expenses. The green grouping includes expenses related to a single function within a given facility. The yellow grouping includes consumables and other expenses that are distributed into functional categories based on metering, equipment and understanding of purpose for costs incurred.

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Table 4 Apportionment Basis Definitions

Apportionment Basis	Definition
Labor - Actual Use	Apportioned using staff's actual timecard inputs.
Labor - Allocation	Apportioned using actual (timecard) percentages.
Labor - Overtime	Apportioned using actual (timecard) percentages of overtime.
Actual Use - Bills Coded	Distributed based on actual bills coded by PC and functional area for payment (dollar amounts). This is rarely used during the budget process, but is used during the use audit to reconcile specific expenses.
Common	Apportionment to solely common purposes. Split equally between common liquids and common solids.
Solids	Cost incurred only for solid processes.
Liquids	Cost incurred only for liquid processes.
AWT	Cost incurred only for AWT processes.
Outfall – Fixed	Cost incurred without relationship to flow volume identified as fixed. Applies only to outfalls (PC5 & PC24).
Outfall - Variable	Costs incurred with relationship to flow volume. Applies only to outfalls (PC5 & PC24).
ЕТМ	Operational Cost applies only to effluent transmission main (PC21) with a 2/3 and 1/3 split between Reach B/C/D and Reach E, respectively.
Electricity	Apportioned to functional area based on horsepower and of equipment run times.
Natural Gas	Apportioned to functional area based on the metering of large equipment.
Potable & Reclaimed Water	Apportioned to functional area based on past engineering studies and staff estimates. (1)
Chlorine/Sodium Hypochlorite	Apportioned to functional area based on tracked AWT and RAS usage.
Ferric Chloride	Apportioned to functional area based on an estimate of benefit to processing.
Odor Control Chemicals	Apportioned based on airflows to system by source.
Laboratory	Apportioned based on actual laboratory expenses.
Petroleum Products	Apportioned based on HP of equipment run times.
Recycled Water Permitting	Applies only to PC12, which apportions 50% of costs to Recycled Water Produced in Region 9 and 50% Equally.
Insurance	PC8 insurance costs are distributed equally across all member agencies. All other PC property insurance costs are included in "Common" costs apportionments.



For Budget preparation, expenses with a given Apportionment Basis are distributed into Functional Categories based on a percentage allotment varying up to 100%. The percentage allotment for each Apportionment Basis can vary by facility as each facility is of differing age, operating equipment and construction. The following examples are meant to illustrate how this is done for some of the distributions:

- Labor distributions by PC and functional area is budgeted each year based on the prior year actuals. "Labor Actual Use" is apportioned based on the timesheet inputs of staff at each PC. As examples, this may be 45% Solids, 35% Liquids, 10% Common Solids, and 10% Common Liquids for PC2 (JB Latham WWTP), but could be 75% Solids, 0% Liquids, 25% Common Liquids, and 0% Common Liquids at PC17 (Regional WWTP) reflective of the services provided by staff.
- Consumables such as chemicals are estimated for budgeting based on prior year actual
  and any planned changes in plant operations. Consumables are distributed based on
  area of benefit to plant operations. As an example, "Ferric Chloride" is distributed based
  on the primary benefit it provides at a given PC. The specific use of the ferric chloride
  chemical varies due to the difference in plant processes. For PC 2 (JB Latham WWTP) it
  is 100% Solids, 100% Liquids at PC15 (Costal WWTP), and 80% Solids and 20% Liquids
  at PC17 (Regional WWTP).
- Metered utilities are budgeted based on prior year actual and any planned changes in
  plant operations. Metered utilities are distributed based on analysis of available data as
  to equipment usage. As an example, "Electricity" is distributed based on an analysis of
  equipment run times. The horsepower rating of major equipment is used to estimate the
  portion of energy consumed by each process within each plant.

Appendix B includes summary tables of the percentage apportionments of each Apportionment Basis to Functional Categories for each PC for the FY 18 budget.

Figure 2 illustrates the apportionment process for a sample expense. In this example, "Landscaping" expense is assigned the Apportionment Basis "Common". "Common" expenses are distributed 50/50 to liquids and solids ownership percentages as determined by the applicable PC capacity shares.

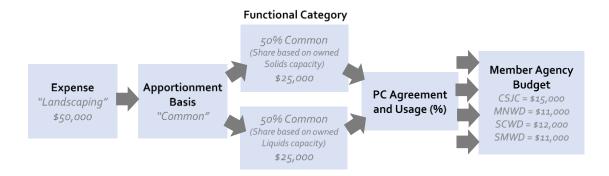


Figure 2 Cost Apportionment Process Example



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### Section 3

### RECOMMENDED APPORTIONMENT CHANGES

Carollo's proposed adjustments to SOCWA's cost apportionment methodology is designed to more equitably distribute expenses based on their areas of provided benefit. As a result, some PCs see small changes while others will see greater shifts among apportionments to Functional Categories and corresponding Member Agency funding requirements. The proposed adjustments are presented in the tables below.

### 3.1 Treatment Plant Changes

Certain expenses have recommended apportionment changes that are constant across the three treatment plant PCs. Table 5 presents proposed apportionment basis changes that are consistent for all treatment plants (JB Latham, Coastal, and Regional).

Table 5 Proposed Apportionment Changes for Treatment Plant PCs

Account Code	Expense	Current Apportionment	Proposed Apportionment	Reasoning
5700	Standby Pay	Labor – Allocation	Common	Pay is not dependent on process that requires work.
5021	Small Vehicle Expense	Labor – Allocation	Common	Benefits entire plant equally, not reflective of timesheets
5026	Small Vehicle Fuel	Labor – Allocation	Common	Benefits entire plant equally, not reflective of timesheets
5033	Recruitment	Labor – Allocation	Common	Benefits entire plant equally, not reflective of timesheets
5061	Mileage	Labor – Allocation	Common	Benefits entire plant equally, not reflective of timesheets

For account codes 5014 (Engineering Misc.), 5015 (Management Support Services), 5016 (Audit Environmental), and 5017 (Legal Fees), we recommend these remain "Common" for budgeting purposes, to provide staff the flexibility to distribute charges to agencies or specific functions as needed during the Use Audit process.

### 3.2 Ocean Outfall Changes

The apportionment methodology changes are the same for both outfalls (San Juan Creek and Aliso Creek). After discussions with staff and member agencies, it was decided that, for budgeting purposes, all outfall expenses will be assigned the "Outfall – Fixed" Apportionment Basis because most expenses accrued by the outfall PCs occur regardless of the amount of flow through the outfall.

However, permit expenses may potentially be apportioned differently in the future. SOCWA staff developed a memo that examines potential options for outfall flow capacity costs to meet requests from the SOCWA Board. This memo is included in Appendix D. These examinations and calculations are outside the scope of Carollo's analysis and are included here for reference only.



An additional apportionment methodology change is to consolidate Apportionment Basis in the Outfall PCs. The current budgeting process for outfalls utilizes three Apportionment Basis to distribute expenses to Member Agencies; "Fixed", "Variable – 5%", and "Variable – 95%". The Apportionment Basis "Fixed" and "Variable – 5%" have identical Member Agency distributions, and the division of variable expenses into two categories provides no observed benefit to the distribution of costs. Carollo recommends that "Variable – 5%" and "Variable – 95%" be consolidated into a single "Variable" Apportionment Basis to simplify the cost apportionment process.

Table 6 lists the expenses that were previously assigned the "Variable – 95%" Apportionment Basis for one or both of the two outfall PCs. It is proposed that all of these expenses are changed to the "Outfall – Fixed" Apportionment Basis.



Table 6 Proposed Apportionment Changes for Outfalls

Account Code	Expense	Current Apportionment <sup>(2)</sup>	Proposed Apportionment	Reasoning
5000	Regular Salaries – O&M	Variable	Fixed	Not dependent on amount of flow
5001	Overtime Salaries	Variable	Fixed	Not dependent on amount of flow
5302	Performance-Based Merit Pay	Variable	Fixed	Not dependent on amount of flow
5306	Scheduled Holiday Work	Variable	Fixed	Not dependent on amount of flow
5307	Weekend Shift Pay	Variable	Fixed	Not dependent on amount of flow
5315	Comp Time – O&M	Variable	Fixed	Not dependent on amount of flow
5401	Fringe Benefits	Variable	Fixed	Not dependent on amount of flow
5700	Standby Pay	Variable	Fixed	Not dependent on amount of flow
5011	Laboratory Services	Variable	Fixed	Not dependent on amount of flow
5014	Engineering – Misc. (1)	Variable	Fixed	Not dependent on amount of flow
5015	Management Support Services (1)	Variable	Fixed	Not dependent on amount of flow
5017	Legal Fees (1)	Variable	Fixed	Not dependent on amount of flow
5031	Safety Program & Supplies	Variable	Fixed	Not dependent on amount of flow
5034	Travel Expense/Tech. Conferences	Variable	Fixed	Not dependent on amount of flow
5036	Laboratory Supplies	Variable	Fixed	Not dependent on amount of flow
5044	Offshore Monitoring	Variable	Fixed	Not dependent on amount of flow
5045	Offshore Biochemistry - 20B	Variable	Fixed	Not dependent on amount of flow
5046	Effluent Chemistry	Variable	Fixed	Not dependent on amount of flow
5058	Maintenance Equip. & Facilities (Common)	Variable	Fixed	Not dependent on amount of flow
5301	Vehicle Pay	Variable	Fixed	Not dependent on amount of flow
5305	Medicare Tax Payments for Employees	Variable	Fixed	Not dependent on amount of flow
5705	Monthly Car Allowance	Variable	Fixed	Not dependent on amount of flow
6500	IT Allocations in to PC's & Depts.	Variable	Fixed	Not dependent on amount of flow

### Notes:



<sup>(1)</sup> For account codes 5014 (Engineering Misc.), 5015 (Management Support Services), and 5017 (Legal Fees), and any other line items that are identified specifically to an agency that is functionally specific, we recommend that staff should retain the flexibility to distribute charges to agencies or specific functions as needed during the Use Audit process.

<sup>(2)</sup> O&M Costs Apportionment (Variable) – Current variable O&M costs for the Outfall are determined on the basis of the average annual flows of each PC Member in a fiscal year apportioned to each PC Member based on the following formula: (a) 5% variable cost component calculated by multiplying 5% of the total variable cost by the ownership percentage and this can be considered a "fixed cost". (b) 95% variable cost component calculated by multiplying 95% of the total variable cost by the average Outfall flows for the preceding calendar year.

### 3.3 PC-Specific Changes

Several recommended changes are unique to a particular facility (PC) For example, both Coastal and Regional Treatment Plants have changes for a few Apportionment Basis percentages.

### J.B. Latham Plant (PC2)

- Ferric Chloride costs at this facility are used to benefit the digester gas processes.
   Therefore, these costs should be apportioned 100% to the solids Functional Category.
   The current apportionment is 80% to liquids and 20% to solids. (This change was implemented in the FY18-19 budget based on the results of the Budget Workshop process and by approval of the Board.)
- In general, electricity apportionments are determined based on equipment usage and run times. It is recommended that the calculation for electricity and natural gas at this facility be performed annually with the preparation of the budget.

### Coastal Treatment Plant (PC15)

- In general, electricity apportionments are determined based on equipment usage and run times. For the Coastal Treatment Plant, the AWT facility is metered separately to South Coast Water District (SCWD) and paid for by SCWD. Accordingly, the current electricity distribution should be revised to 100% liquids.
- In general, natural gas is apportioned based on gas metering for large equipment at each facility. The AWT facility is metered separately to South Coast Water District (SCWD) and paid for by SCWD. Accordingly, the current gas distribution should be revised to 50% liquids and 50% common.
- It is recommended that the calculation electricity and natural gas at this facility be performed annually with the preparation of the budget.
- Unlike PC2 and PC17, the "Ferric Chloride" costs at this facility are for odor control and are 100% liquids costs. No change is needed, since the apportionment basis already reflects this.

Table 7 illustrates the changes made to "Electricity" and "Natural Gas" Apportionment Basis at PC15 (Coastal WWTP).

Table 7 PC15 Functional Category Changes by Apportionment Basis

	Proposed					
Basis	Liquids	AWT	C/Liquids	Liquids	AWT	C/Liquids
Electricity	94%	2.5%	3.5%	100%	-	-
Natural Gas	95%	-	5%	50%	-	50%

### Regional Treatment Plant (PC17)

- Ferric Chloride costs at this facility are used to benefit the digester gas processes (similar to PC2). Therefore, these costs should be apportioned 100% to the solids Functional Category. The current apportionment is 80% to liquids and 20% to solids.
- In general, electricity apportionments are determined based on equipment usage and run times. It is recommended that the calculation electricity and natural gas at this facility be performed annually with the preparation of the budget.



Table 8 shows the recommended change for PC 17 "Ferric Chloride" Apportionment Basis.

Table 8 PC17 Functional Category Changes to Apportionment Basis

Cui	Propo	osed		
Basis	Liquids	Solids	Liquids	Solids
Ferric Chloride	80%	20%	-	100%

### **Remaining PCs**

In addition to treatment plants and outfalls, the apportionment methodologies for PC8 (Pre-Treatment), PC12 (Permits), and PC21 (ETM) were examined. No changes to the cost apportionment approach are recommended for these PCs.

### Section 4

### **RESULTS**

The proposed changes to the cost apportionment method results in the redistribution of expense budgets across Functional Categories, due to changes in Apportionment Basis and PC-specific alterations. This section presents the redistribution of expense budgets by Apportionment Basis, Functional Category, and finally by Member Agency.

### 4.1 Results by Apportionment Basis

The proposed apportionment methodology revisions reassign certain expenses to a new Apportionment Basis, as described in the previous sections. Table 9 provides details of expenses by Apportionment Basis for each PC before proposed changes were applied. Table 10 shows expenses by Apportionment Basis for each PC after the proposed changes were applied. Finally, Table 11 illustrates the difference between the two, with negative (red) values indicating less expense was distributed to that basis after the proposed revisions (a decreas in budget), and positive (black) values indicating that more expense was distributed to that basis after the proposed revisions (an increase in budget). These proposed adjustments do not change the total budget for any PC, however, the proposed changes do alter the dollar amounts among Apportionment Basis within each PC.

Of the original FY 17-18 budget, the majority of the costs were in Apportionment Basis "Labor – Actual Use" (24%), followed by "Labor – Allocation" (20%), "Solids" (13%), and "Common" (13%). After implementing the proposed changes, these total percentages change only slightly, however these basis remain the largest in terms of total expenses.

After the proposed changes, "Outfall – Fixed" increased by 2.9% (\$524,067), while "Outfall – Variable" decreased by the same amounts. And "Common" increased by 0.7% (\$130,699), which resulted from decreases to "Labor – Actual Use" by -0.3% (-\$46,666) and "Labor – Allocation" by -0.5% (-\$84,033).



Table 9 Expenses by Apportionment Basis <u>Before</u> Proposed Changes

Apportionment Basis	PC2	PC5		PC8	PC12		PC15	PC17	7	PC21		PC24	Tot	Total Expenses	%
Labor - Actual Use	\$ 1,428,833	- \$	\$	85,113	\$ 50,586	\$	875,443	\$ 1,819,549		- \$	\$	-	\$	4,259,524	23.7%
Labor - Allocation	\$ 1,085,752	- \$	\$	61,961	\$ 37,238	\$	899'859	\$ 1,675,422		- \$	\$	-	\$	3,519,041	19.6%
Labor - Overtime	\$ 22,110	- \$	\$	-	- \$	\$	11,121	3E \$	39,345	- \$	\$	-	\$	72,576	0.4%
Actual Use - Bills Coded	- \$	- \$	\$	-	- \$	\$	-	\$	-	- \$	\$	-	\$	-	%0.0
Common	\$ 811,307	· \$	❖	40,427	- \$	Ş	555,654	\$ 951	951,232	- \$	Ş	1	\$	2,358,620	13.1%
Solids	\$ 1,265,000	- \$	Ş	1	- \$	Ϋ́	1	\$ 1,142,000		- \$	\$		\$	2,407,000	13.4%
Liquids	\$ 280,000	- \$	\$	-	- \$	\$	327,000	\$ 302	307,000	- \$	\$	-	\$	914,000	5.1%
AWT	- \$	- \$	\$	-	- \$	\$	35,000	\$ 28	28,996	- \$	\$	-	\$	93,996	0.5%
Outfall - Fixed	- \$	\$ 166,373	\$	-	- \$	\$	-	\$	1	- \$	\$	\$ 259,642	\$	426,015	2.4%
Outfall - Variable	- \$	\$ 309,491	\$	-	- \$	\$	-	\$	-	- \$	φ,	\$ 214,576	\$	524,067	2.9%
ETM	- \$	- \$	\$	-	- \$	\$	-	\$		\$ 63,231	;1 \$	-	\$	63,231	0.4%
Electricity	\$ 524,000	- \$	\$	-	- \$	\$	283,000	\$ 675	675,000	- \$	\$	-	\$	1,482,000	8.2%
Natural Gas	\$ 65,000	- \$	\$	-	- \$	ۍ	3,000	\$ 141	141,000	- \$	\$	-	\$	209,000	1.2%
Potable & Reclaimed Water	\$ 15,000	- \$	\$	-	- \$	\$	13,000	78 \$	34,000	- \$	\$	-	\$	62,000	0.3%
Chlorine/Sodium Hypochlorite	\$ 28,000	- \$	\$	-	- \$	\$	100,000	\$ 320	350,000	- \$	\$	-	\$	478,000	2.7%
Polymer Products	- \$	- \$	\$	-	- \$	\$	2,000	\$ 406	406,000	- \$	\$	-	\$	408,000	2.3%
Ferric Chloride	\$ 100,000	- \$	\$	-	- \$	\$	30,000	\$ 125	125,000	- \$	\$	-	\$	255,000	1.4%
Odor Control Chemicals	\$ 25,000	- \$	\$	-	- \$	\$	85,000	\$ 20	50,000	- \$	\$	-	\$	160,000	%6.0
Laboratory	\$ 23,500	- \$	\$	2,500	- \$	\$	19,504	\$ 33	33,020	- \$	\$	-	\$	78,524	0.4%
Petroleum Products	\$ 16,000	- \$	\$	-	- \$	\$	2,000	\$ 42	42,000	- \$	\$	-	\$	60,000	0.3%
<b>Recycled Water Permits</b>	- \$	- \$	\$	-	\$ 157,083	\$	-	\$	-	- ج	\$	1	\$	157,083	%6:0
Insurance	- \$	٠ \$	❖	2,199	- \$	ۍ	1	\$	1	- \$	\$	1	\$	2,199	0.0%
Rounding	\$ 54	\$ 20	Ş	24	\$ (32)	\$ (	(2)	\$	53	\$	\$ (2)	(22)	\$	82	
Tota	Total \$5,689,556	\$ 475,884		\$ 192,224	\$ 244,872		\$3,000,388	\$7,849,617		\$ 63,224		\$474,196	❖	17,989,961	100.0%

<sup>\*</sup>Rounding values from Fiscal Year 2017-18 Total Operating Budget Report, Approved June 14, 2017



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Table 10 Expenses by Apportionment Basis After Proposed Changes

Apportionment Basis	PC2	PC5		PC8	_	PC12	PC15	12	PC17		PC21	PC24		<b>Total Expenses</b>	%
Labor - Actual Use	\$ 1,405,500	- \$	\$	85,113	\$	50,586	\$ 85.	852,110	\$ 1,819,549	\$ 6t	-	\$	1	\$ 4,212,858	23.4%
Labor - Allocation	\$ 1,060,252	- \$	\$	61,961	\$	37,238	\$ 64	645,468	\$ 1,630,089	\$ 68		\$	1	\$ 3,435,008	19.1%
Labor - Overtime	\$ 22,110	- \$	\$	1	\$	1	\$ 1	11,121	\$ 39,345	\$ 51		\$	1	\$ 72,576	0.4%
Actual Use - Bills Coded	- \$	- \$	\$	-	\$	-	\$	-	- \$	\$	-	\$	-	- \$	%0.0
Common	\$ 860,140	- \$	\$	40,427	\$	-	\$ 59.	592,187	\$ 996,565	55 \$	-	\$	-	\$ 2,489,319	13.8%
Solids	\$ 1,265,000	- \$	\$	-	\$	-	\$	-	\$ 1,142,000	\$ 00	-	\$	-	\$ 2,407,000	13.4%
Liquids	\$ 280,000	- \$	\$	-	\$	-	\$ 35.	327,000	\$ 307,000	\$ 00	-	\$	;	\$ 914,000	5.1%
AWT	- \$	- \$	\$	-	\$	-	\$ 3.	35,000	\$ 58,996	\$ 96	-	\$	-	966'86 \$	0.5%
Outfall - Fixed	- \$	\$ 475,864	\$ \$9	1	\$	1	<b>ب</b>	1	- \$	Ş	1	\$ 474	474,218	\$ 950,082	5.3%
Outfall - Variable	- \$	- \$	\$	1	\$	1	\$	1	- \$	\$		\$	1	- \$	%0.0
ETM	- \$	- \$	\$	-	\$	-	\$	-	- \$	Ş	63,231	\$	-	\$ 63,231	0.4%
Electricity	\$ 524,000	- \$	\$	-	\$	-	\$ 28.	283,000	\$ 675,000	\$ 00	-	\$	-	\$ 1,482,000	8.2%
Natural Gas	\$ 65,000	٠ \$	φ.	•	\$	г	\$	3,000	\$ 141,000	\$ 00	,	\$	1	\$ 209,000	1.2%
Potable & Reclaimed Water	\$ 15,000	- \$	\$	-	\$	-	\$ 13	13,000	\$ 34,000	\$ 00	-	\$	-	\$ 62,000	0.3%
Chlorine/Sodium Hypochlorite	\$ 28,000	- \$	\$	-	\$	-	\$ 10	100,000	\$ 350,000	\$ 00	-	\$	;	\$ 478,000	2.7%
Polymer Products	- \$	- \$	\$	-	\$	-	\$	2,000	\$ 406,000	\$ 00	-	\$	-	\$ 408,000	2.3%
Ferric Chloride	\$ 100,000	- \$	\$	-	\$	-	\$ 30	30,000	\$ 125,000	\$ 00	-	\$	-	\$ 255,000	1.4%
Odor Control Chemicals	\$ 25,000	- \$	\$	-	\$	-	\$	85,000	\$ 50,000	\$ 00	-	\$	-	\$ 160,000	%6.0
Laboratory	\$ 23,500	- \$	\$	2,500	\$	-	\$ 19	19,504	\$ 33,020	<u>2</u> 0 \$	-	\$	-	\$ 78,524	0.4%
Petroleum Products	\$ 16,000	- \$	\$	-	\$	-	\$	2,000	\$ 42,000	\$ 00	-	\$	-	\$ 60,000	0.3%
<b>Recycled Water Permits</b>	- \$	- \$	\$	-	\$ 1	\$ 157,083	\$	-	- \$	\$	-	\$	-	\$ 157,083	%6.0
Insurance	٠ \$	٠ \$	Ş	2,199	φ.	1	\$-	1	- \$	Ş		\$	1	\$ 2,199	%0.0
Rounding	\$ 54	\$	20 \$	24	\$	(32)	ş	(2)	<b>.</b>	<del>5</del> 3 \$	(7)	\$	(22)	\$ 85	
Total	Total \$5,689,556	\$ 475,884		\$ 192,224	\$ 57	\$ 244,872	\$3,000,388		\$7,849,617		\$ 63,224	\$ 474,196		\$ 17,989,961	100.0%

\*Rounding values from Fiscal Year 2017-18 Total Operating Budget Report, Approved June 14, 2017

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Table 11 Impacts on Expenses by Apportionment Basis After Proposed Changes

																S	Change in Total	ò
Apportionment Basis		PC2		PC5	_	PC8	PC	PC12	-	PC15	PC17	17	PC21	11	PC24		Expenses	%
Labor - Actual Use	↔	(23,333)	↔	1	❖	ı	↔		↔	(23,333) \$	↔	ı	φ.	1	· \$	❖	(46,666)	-0.3%
Labor - Allocation	\$	(25,500)	\$	-	\$	-	\$	-	\$	(13,200)	\$ (4	(45,333)	\$	-	- \$	\$	(84,033)	-0.5%
Labor - Overtime	Ŷ		Ş	1	\$	1	Ş		ş	1	\$	ı	\$	1	- \$	❖		%0.0
Actual Use - Bills Coded	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	- \$	\$	-	%0.0
Common	\$	48,833	\$	1	\$	-	\$	-	\$	36,533	\$ 4	45,333	\$	-	- \$	\$	130,699	0.7%
Solids	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	- \$	\$	-	%0.0
Liquids	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	- \$	\$	-	%0.0
AWT	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	- \$	\$	-	%0.0
Outfall - Fixed	\$	1	\$	309,491	\$		\$	-	\$	'	\$	ı	\$	1	\$ 214,576	\$ 92	524,067	2.9%
Outfall - Variable	\$	-	) \$	(309,491)	\$	-	\$	-	\$	-	\$	-	\$	-	\$ (214,576)	\$ (92	(524,067)	-2.9%
ETM	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	- \$	\$	-	%0.0
Electricity	\$	-	\$	-	\$		\$		\$	-	\$	-	\$	1	- \$	\$	-	%0.0
Natural Gas	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	- \$	\$	-	%0.0
Potable & Reclaimed Water	\$	-	\$	-	\$	-	\$		\$	-	\$	-	\$	-	- \$	\$	-	0.0%
Chlorine/Sodium Hypochlorite	\$	-	\$	-	\$	-	\$		\$	-	\$	-	\$	1	- \$	\$	-	0.0%
Polymer Products	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	- \$	\$	-	%0.0
Ferric Chloride	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	- \$	\$	-	%0.0
Odor Control Chemicals	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	- \$	\$	-	%0.0
Laboratory	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	- \$	\$	-	0.0%
Petroleum Products	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	- \$	\$	-	%0.0
Recycled Water Permits	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	- \$	\$	-	0.0%
Insurance	\$		\$	1	\$	1	\$	1	\$	'	\$	1	\$	1	- \$	\$	-	0.0%
Total Changes	\$	٠	\$	٠	❖		\$		\$	,	\$		\$		- \$	❖	٠	

# Budget Increase / (Budget Decrease)

### 4.2 Results by Functional Category

The proposed revisions to the cost apportionment methodology results in the redistribution of expenses across Functional Categories, which correspondingly results in changes to the total costs billed to Member Agencies. Table 12 provides detail of expenses distributed by Functional Category prior to the proposed changes. Table 13 shows expenses by Functional Category after the proposed changes were implemented. Table 14 illustrates the difference between the two, with negative (red) values indicating less expense was distributed to that category after the proposed revisions (a decreas in budget), and positive (black) values indicating that more expense was distributed to that category after the proposed revisions (an increase in budget).

These proposed adjustments do not change the total budget for any PC, however, the proposed changes do alter the dollar amounts among Functional Categories within each PC. Because no changes were made to PC8, PC12, and PC21, the Functional Categories for these PCs were grouped in the "All Others" column to simplify the tables.

The proposed changes have a net reduction in Liquids, AWT, and Outfall Flows Functional Categories, and a net increase in Solids, Common, and Capacity Functional Categories. The largest shift occurs at the outfalls (PC5 and PC24) due to the many changes described in Section 3.2 (Ocean Outfall Changes) and Table 6.



Table 12 Expenses by Functional Category <u>Before</u> Proposed Changes

			Tre	<b>Treatment Plants</b>	ıts		Outfalls	alls	Others			
		Solids	Liquids	AWT	C/Solids	C/Solids C/Liquids	Outfall Flow Capacity	Capacity	All Others	Rounding	₹	PC Total
PC2	JB Latham WWTP	\$2,500,731 \$1,993,963	\$1,993,963		\$ 597,404	\$ 597,404 \$ 597,404				\$ 54	\$	54 \$ 5,689,556
PC5	San Juan Creek Outfall						\$ 309,491 \$ 166,373	\$ 166,373		\$ 20	\$	475,884
PC8	Pre-Treatment								\$ 192,200	\$ 24 \$	\$	192,224
PC12	Recycled Water Permits								\$ 244,907	\$ (32) \$	\$	244,872
PC15	C15 Coastal WWTP		\$1,680,516 \$ 378,466	\$ 378,466		\$ 941,408				(2)	\$	(2) \$ 3,000,388
PC17	Regional WWTP	\$3,529,815	\$3,529,815 \$2,175,392 \$ 858,752 \$ 641,698 \$ 643,908	\$ 858,752	\$ 641,698	\$ 643,908				\$ 53	\$ 2	53 \$ 7,849,617
PC21	ETM								\$ 63,231	(7)	\$	63,224
PC24	Aliso Creek Outfall						\$ 214,576 \$ 259,642	\$ 259,642		\$ (22) \$	\$	474,196
	Functional Category Total \$6,030,546 \$5,849,871 \$1,237,218 \$1,239,101 \$2,182,720 \$ 524,067 \$ 426,015 \$ 500,338	\$6,030,546	\$5,849,871	\$1,237,218	\$1,239,101	\$2,182,720	\$ 524,067	\$ 426,015	\$ 500,338	\$ 85	\$ 17	85 \$ 17,989,961

Table 13 Expenses by Functional Category After Proposed Changes

	PC Total	54 \$ 5,689,556	475,884	192,224	244,872	(2) \$ 3,000,388	7,849,617	63,224	474,196	85 \$ 17,989,961
	Rounding	<b>\$ \$</b>	<b>\$</b> 02	<b>\$ \$</b>	\$ (32)	(2) \$	<b>\$ 2</b> 3	\$ (2)	\$ (23)	\$ 58
	Ŀ	ş	Ş	ş	Ş	\$	\$	\$	\$	❖
Others	All Others			\$ 192,200	\$ 244,907			\$ 63,231		\$ 500,338
s	Capacity		\$ 475,864						474,218	950,082
Outfalls	Outfall Flow Capacity		\$ -						\$ -	\$ -
			\$						\$	ş
	C/Liquids	606,973 \$ 606,973				\$ 960,436	\$ 664,177			\$2,231,585
	C/Solids	\$ 606,973					\$ 661,967			\$1,268,940
Treatment Plants	AWT					\$ 366,642	\$ 849,268			\$1,215,910
Tre	Liquids	\$ 1,963,795				\$ 1,673,313 \$ 366,642	\$ 2,132,453			\$5,769,561
	Solids	\$ 2,511,761 \$ 1,963,795					\$ 3,541,700 \$ 2,132,453 \$ 849,268 \$ 661,967 \$ 664,177			\$ 6,053,460
		JB Latham WWTP	San Juan Creek Outfall	Pre-Treatment	Recycled Water Permits	C15 Coastal WWTP	Regional WWTP	ETM	Aliso Creek Outfall	Functional Category Total \$6,053,460 \$5,769,561 \$1,215,910 \$1,268,940 \$2,231,585
		PC2	PC5	PC8	PC12	PC15	PC17	PC21	PC24	

<sup>\*</sup>Rounding values from Fiscal Year 2017-18 Total Operating Budget Report, Approved June 14, 2017



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Table 14 Impacts on Expenses by Functional Category After Proposed Changes

					Treati	Treatment Plants	ts			Outfalls		Others	
		S	Solids	Ĕ	Liquids	AWT	s/s	C/Solids C	:/Liquids	C/Liquids Outfall Flow Capacity	Sapacity	All Others	PC Total Change
PC2	JB Latham WWTP	ş	11,029	\$	(30,168)		φ.	695'6 \$ 695'6	692'6				- \$
PC5	San Juan Creek Outfall									\$ (309,491) \$ 309,491	309,491		- \$
PC8	Pre-Treatment												- \$
PC12	Recycled Water Permits												- \$
PC15	Coastal WWTP		J,	\$	(7,203) \$ (11,824)	(11,824)		\$	19,027				- \$
PC17	Regional WWTP	\$	11,885 \$	\$	(42,939) \$ (9,484) \$ 20,269 \$ 20,269	(9,484)	\$	\$ 692'02	20,269				- \$
PC21	ETM												- \$
PC24	Aliso Creek Outfall									\$ (214,576) \$ 214,576	214,576		- \$
Tot	Total Functional Category Change \$ 22,915	÷	22,915	\$	\$ (016,08)	(21,308)	\$	\$ 8836	48,866	(80,310) \$ (21,308) \$ 29,838 \$ 48,866 \$ (524,067) \$ 524,067	524,067		٠ \$

# Budget Increase / (Budget Decrease)

### 4.3 Results by Member Agency Budget

The proposed cost apportionment methodology revisions have no impact on the total budget for any PC. However, the proposed changes do result in a redistribution of costs among Member Agency budgets within each PC. Table 15 shows the current budget breakdown by Member Agency and PC for FY 17-18, without any of the proposed changes.

Table 16 shows a revised FY 17-18 budget by agency and PC, based on the proposed changes discussed in this TM. Table 17 shows the difference between the two, with negative (red) values indicating less expense was distributed to that member agency after the proposed revisions (a decrease in budget), and positive (black) values indicating that more expense was distributed to that member agency after the proposed revisions (an increase in budget).

The total expense impacts for each PC and Member Agency is the result of the proposed changes made to Apportionment Basis and Functional Categories as described in the previous sections of this TM. After the proposed changes, Regional Treatment Plant (PC17) experiences the largest impacts to the distribution of expenses across Member Agencies. The outfalls (PC5 and PC24) also experience large shifts in the distribution of expenses among Member Agencies due to the Apportionment Basis changes that re-distribute many outfall expenses from "Variable" to "Fixed" Apportionment Basis.



Table 15 Cost Summary by PC <u>Before</u> Apportionment Changes (FY18)

	PC2	PC5	PC8	PC12	PC15	PC17	PC21	PC24		-
Member Agency	J.B. Latham	SJCOO	Pre-Treatmen	Pre-Treatment Recycled Water Permits	Coastal	Regional	ETM	AC00		Total
City of San Juan Capistrano	\$ 1,505,172 \$ 74,716	\$ 74,716	\$ 14,692	\$ 24,620					❖	1,619,200
Moulton Niguel Water District	\$ 1,034,700 \$ 75,632	\$ 75,632	\$ 41,668	\$ \$ \$ \$	\$ 275,196	275,196 \$ 6,298,376	\$ 11,144	\$ 174,428	ψ.	7,978,944
South Coast Water District	\$ 1,311,176 \$ 65,344	\$ 65,344	\$ 33,684	\$ 27,984	\$ 1,360,664 \$	\$ 358,752		\$ 46,496	÷	3,204,100
Santa Margarita Water District	\$ 1,838,508 \$ 173,280	\$ 173,280	\$ 44,136	\$ 74,320					❖	2,130,244
El Toro Water District			\$ 9,184			\$ 654,264	\$ 26,040	\$ 94,584	₩.	784,072
Irvine Ranch Water District			\$ 18,488	\$ 25,324			\$ 26,040	\$ 92,284	❖	162,136
City of San Clemente		\$ 86,912	\$ 15,636						❖	102,548
Trabuco Canyon Water District				\$ 24,824					❖	24,824
<b>Emerald Bay Service District</b>			\$ 1,956		\$ 55,732	\$ 16,864		\$ 3,080	Ŷ	77,632
City of Laguna Beach			\$ 12,780		\$ 1,308,796	\$ 521,360		\$ 63,324	❖	1,906,260
Total PC Budget	\$ 5,689,556 \$ 475,884	\$ 475,884	\$ 192,224	Ŷ	244,872 \$ 3,000,388 \$ 7,849,617	\$ 7,849,617	\$ 63,224	63,224 \$ 474,196 \$ 17,989,961	↔	17,989,961

Table 16 Cost Summary by PC <u>After</u> Apportionment Changes (FY18)

-	Total	1,599,233	7,996,975	3,207,674	2,163,019	775,756	144,599	94,723	24,832	79,002	1,904,063	85	63,224 \$ 474,196 \$ 17,989,961
		ş	\$	❖	\$	❖	❖	❖	❖	\$	❖	Ş	❖
PC24	AC00		11,143 \$ 207,936	58,376		77,307	74,735			3,699	52,164	(22)	474,196
			\$	\$		\$	Ş			\$	↔	Ş (	❖
PC21	ETM		11,143			26,044 \$	26,044					(2)	63,224
			Ş			\$	Ş					₩.	❖
PC17	Regional		280,447   \$ 6,277,327	363,633		663,230				17,122	528,252	53	244,872 \$ 3,000,388 \$ 7,849,617
			\$ 2	\$ \$		\$				5 \$	<u>ۍ</u>	(2) \$	<u>ج</u>
PC15	Coastal			\$ 1,352,853						56,226	\$ 1,310,863 \$	2)	3,000,388
	50	0	\$		0		2		2	Ş	\$	(32) \$	2 \$
PC12	<b>Recycled Water Permits</b>	24,620	67,798	27,992	74,330		25,335		24,832			(3:	244,87
	æ	4 \$	Ş _ S	\$	\$ 5	4	4 \$	4	Ş	4	<+	24 \$	<b>⊹</b>
PC8	<b>Pre-Treatment</b>	\$ 14,684	\$ 41,665	\$ 33,685	\$ 44,135	\$ 9,174	\$ 18,484	\$ 15,634		\$ 1,954	\$ 12,784	\$ 2,	\$ 192,224
		56	07	40	03			68				20	28
PC5	SJCOO	52,7	73,8	59,3	210,9			79,089					175,8
	S	Ş	Ş	Ş	\$			Ş				ζ.	ر ج
PC2	J.B. Latham	\$ 1,507,203 \$ 52,726	\$ 1,036,853 \$ 73,807	\$ 1,311,795 \$ 59,340	\$ 1,833,652 \$ 210,90							\$ 54 \$	\$ 5,689,556 \$ 475,884
	Member Agency	City of San Juan Capistrano	Moulton Niguel Water District	South Coast Water District	Santa Margarita Water District	El Toro Water District	Irvine Ranch Water District	City of San Clemente	Trabuco Canyon Water District	Emerald Bay Service District	City of Laguna Beach	Rounding	Total PC Budget

<sup>\*</sup>Rounding values from Fiscal Year 2017-18 Total Operating Budget Report, Approved June 14, 2017



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 Table 17
 Total Expense Impact by PC <u>After</u> Apportionment Changes (FY18)

	Total Change	(19,967)	18,031	3,574	32,775	(8,317)	(17,537)	(7,825)	<b>∞</b>	1,369	(2,197)	(82)	
	Total	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	Ş	₩
PC24	ACOO		33,508	11,880		17,277)	(17,549)			619	(11,160)	22	
PC	AC		\$ 3	\$ 1		\$ (1	\$ (1			Ş	\$ (1	Ş	❖
			(1)			4	4					7	
PC21	ETM*												
			\$ (6			\$	Ş			8		3) \$	↔
PC17	Regional		(21,049)	4,881		8,966				258	6,891	(23)	•
	œ		\$	\$ (		Ş				\$ i	٠	\$	❖
PC15	Coastal		5,251	(7,811)						494	2,067	2	•
			2) \$	8						Ş	Ş	\$	∿
<b>Recycled Water</b>	Permits*	\$	) \$	\$	\$ 10		\$ 11		\$ \$			\$ 35	٠.
	ا *	(8)	(3)	1	(1)	10)	(4)	(2)		(2)	4	(24)	
PC8	Pre-Treatment*	\$	\$	\$	\$	) \$	\$	\$		\$	\$	) \$	٠ •
ы	0	,990)	,825)	(6,004)	,623			(7,823)				(20)	
PC5	SJCOO	(21	; (1	9)	37			(7				4.0	
PC2	J.B. Latham	2,031   \$ (21,990)	2,153 \$ (1,825	619	(4,856) \$ 37,623			\$				(54) \$	٠
۵	J.B. L	Ş	Ş	Ş	Ş							Ş	❖
	Member Agency	City of San Juan Capistrano	Moulton Niguel Water District	South Coast Water District	Santa Margarita Water District	El Toro Water District	Irvine Ranch Water District	City of San Clemente	Trabuco Canyon Water District	Emerald Bay Service District	City of Laguna Beach	Rounding	Change in Total PC Budget

\*Rounding may impact these values

# Budget Increase / (Budget Decrease)

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## Appendix A

## FY 2017-18 BUDGET ASSUMPTIONS

Exhibits A through H summarize the cost apportionment assumptions from the FY17-18 Budget Book. Each PC has different apportionment methods as described in the FY17-18 Budget Book to apportion costs to the Member Agencies. The applicable functional categories are specific to the processes that occur within each PC.

Exhibit A PC2 (J.B. Latham Treatment Plant) Apportionment Assumptions

PC	.2
Latham	<b>WWTP</b>

		FY17-18 Bud	lget Use Projection	s FY17-18 (	Ownership
Member Agency	Abbrev.	Solids	<b>Liquids</b> AW	C/Solids	C/Liquids
City of San Juan Capistrano	CSJC	23.82%	27.50%	30.00%	30.77%
<b>Moulton Niguel Water District</b>	MNWD	15.24%	19.49%	21.62%	23.08%
<b>South Coast Water District</b>	SCWD	21.73%	23.91%	20.00%	28.84%
Santa Margarita Water District	SMWD	39.21%	29.10%	28.38%	17.31%
El Toro Water District	ETWD				
Irvine Ranch Water District	IRWD				
City of San Clemente	CSC				
Trabuco Canyon Water District	TCWD				
<b>Emerald Bay Service District</b>	EBSD				
City of Laguna Beach	CLB				
	Total	100%	100%	100%	100%



Exhibit B PC5 (SJCOO) Apportionment Assumptions

PC5 San Juan Creek Ocean Outfall

		FY17-18 Budget Use	
		Projections	FY17-18 Ownership
Member Agency	Abbrev.	Outfall Flow	Capacity
City of San Juan Capistrano	CSJC	18.56%	11.08%
<b>Moulton Niguel Water District</b>	MNWD	16.13%	15.51%
South Coast Water District	SCWD	14.51%	12.47%
Santa Margarita Water District	SMWD	31.52%	44.32%
El Toro Water District	ETWD		
Irvine Ranch Water District	IRWD		
City of San Clemente	CSC	19.28%	16.62%
<b>Trabuco Canyon Water District</b>	TCWD		
<b>Emerald Bay Service District</b>	EBSD		
City of Laguna Beach	CLB		
	Total	100%	100%

Exhibit C PC8 (Pre-Treatment) Apportionment Assumptions

PC8 Pre-Treatment

		FY17-18 (	Ownership
Member Agency	Abbrev.	Timecard	Insurance
City of San Juan Capistrano	CSJC	7.60%	11.11%
<b>Moulton Niguel Water District</b>	MNWD	21.80%	11.11%
<b>South Coast Water District</b>	SCWD	17.60%	11.11%
Santa Margarita Water District	SMWD	23.10%	11.11%
El Toro Water District	ETWD	4.70%	11.11%
Irvine Ranch Water District	IRWD	9.60%	11.11%
City of San Clemente	CSC	8.10%	11.11%
Trabuco Canyon Water District	TCWD		
<b>Emerald Bay Service District</b>	EBSD	0.90%	11.11%
City of Laguna Beach	CLB	6.60%	11.11%
	Total	100%	100%



Exhibit D PC12 (Recycled Water Permits) Apportionment Assumptions

PC12 Recycled Water Permits

	FY17-18 Budget Use Projections	FY17-18 Ownership
Abbrev.	Recycled Water Produced in Region 9	Equally
CSJC	3.44%	16.67%
MNWD	38.70%	16.67%
SCWD	6.19%	16.67%
SMWD	44.03%	16.67%
ETWD		
IRWD	4.02%	16.67%
CSC		
TCWD	3.61%	16.67%
EBSD		
CLB		
Total	100%	100%
	CSJC MNWD SCWD SMWD ETWD IRWD CSC TCWD EBSD CLB	Abbrev.         Recycled Water Produced in Region 9           CSJC         3.44%           MNWD         38.70%           SCWD         6.19%           SMWD         44.03%           ETWD         IRWD           CSC         TCWD           EBSD         CLB

Exhibit E PC 15 (Coastal Treatment Plant) Apportionment Assumptions

PC15 Coastal WWTP

	'	FY17-18 B	udget Use P	rojections	FY17-18	Ownership
Member Agency	Abbrev.	Solids	Liquids	AWT		C/Liquids
City of San Juan Capistrano	CSJC					
Moulton Niguel Water District	MNWD		-	-		29.2%
South Coast Water District	SCWD		41.8%	100.0%		29.9%
Santa Margarita Water District	SMWD					
El Toro Water District	ETWD					
Irvine Ranch Water District	IRWD					
City of San Clemente	CSC					
Trabuco Canyon Water District	TCWD					
<b>Emerald Bay Service District</b>	EBSD		1.6%	-		3.0%
City of Laguna Beach	CLB		56.6%	-		37.9%
	Total		100%	100%		100%

Exhibit F PC17 (Regional Treatment Plant) Apportionment Assumptions

PC17 Regional WWTP

		FY17-18 Bu	dget Use	Projections	FY17-18 C	Ownership
Member Agency	Abbrev.	Solids	Liquids	AWT	C/Solids	C/Liquids
City of San Juan Capistrano	CSJC					
<b>Moulton Niguel Water District</b>	MNWD	63.58%	99.54%	100.00%	58.82%	100.00%
<b>South Coast Water District</b>	SCWD	8.53%	0.10%	-	8.96%	-
Santa Margarita Water District	SMWD					
El Toro Water District	ETWD	14.80%	0.19%	-	20.41%	-
Irvine Ranch Water District	IRWD					
City of San Clemente	CSC					
Trabuco Canyon Water District	TCWD					
<b>Emerald Bay Service District</b>	EBSD	0.37%	0.01%	-	0.59%	-
City of Laguna Beach	CLB	12.72%	0.16%	-	11.22%	-
	Total	100%	100%	100%	100%	100%



Exhibit G PC21 (Effluent Transmission Main) Apportionment Assumptions

## PC21 Effluent Transmission Main

FY17-18 Budget Ownership

Member Agency	Abbrev.	Reach B/C/D	Reach E
City of San Juan Capistrano	CSJC		
<b>Moulton Niguel Water District</b>	MNWD	-	53.4%
<b>South Coast Water District</b>	SCWD		
Santa Margarita Water District	SMWD		
El Toro Water District	ETWD	50.0%	23.3%
Irvine Ranch Water District	IRWD	50.0%	23.3%
City of San Clemente	CSC		
<b>Trabuco Canyon Water District</b>	TCWD		
<b>Emerald Bay Service District</b>	EBSD		
City of Laguna Beach	CLB		
	Total	100%	100%

#### Exhibit H PC24 (ACCO) Apportionment Assumptions

PC24 Aliso Creek Ocean Outfall

	Total	100%	100%
City of Laguna Beach	CLB	16.5%	11.0%
<b>Emerald Bay Service District</b>	EBSD	0.5%	0.8%
Trabuco Canyon Water District	TCWD		
City of San Clemente	CSC		
Irvine Ranch Water District	IRWD	24.4%	15.8%
El Toro Water District	ETWD	24.8%	16.3%
Santa Margarita Water District	SMWD		
<b>South Coast Water District</b>	SCWD	6.5%	12.3%
<b>Moulton Niguel Water District</b>	MNWD	27.4%	43.8%
City of San Juan Capistrano	CSJC		
Member Agency	Abbrev.	Solids Outfall Flow AWT	Capacity
		FY17-18 Budget Use Projections FY17-18 O	wnership



#### Appendix B

#### **COST APPORTIONMENT BASIS**

Exhibits I, J, and K provide the proposed revised cost apportionment basis specific to each PC.



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Exhibit I Apportionment Basis for PC2, PC5, and PC8

	PC2	.2	PC5	PC8
	Latham WWTP	WWTP	San Juan Creek Ocean Outfall	Pre-Treatment
Apportionment Basis	Solids Liquids AVVT	C/Solids C/Liquids	Solids Outfall Flows AWT Capacity	Timecard Insurance
Labor - Actual Use (Dept 1)	42.2% 48.4%	4.7% 4.7%		100.0% -
Labor - Actual Use (Dept 2)	14.8% 55.0%	15.1% 15.1%		100.0% -
Labor - Allocation (Dept 1)	42.2% 48.4%	4.7% 4.7%		100.0% -
Labor - Allocation (Dept 2)	14.8% 55.0%	15.1% 15.1%		100.0% -
Labor - Overtime (Dept 1)	42.2% 48.4%	4.7% 4.7%		100.0% -
Labor - Overtime (Dept 2)	14.8% 55.0%			100.0% -
Actual Use - Bills Coded		20.0% 50.0%		100.0% -
Common		20.0% 20.0%		100.0% -
Solids	100.0% -			100.0% -
Liquids	- 100.0%	-		100.0% -
AWT				100.0% -
Outfall - Fixed			- 100.0%	
Outfall - Variable			100.0%	
ETM				
Electricity	25.0% 65.0%	2.0% 5.0%		
Natural Gas	25.0% 65.0%	2.0% 5.0%		
Potable & Reclaimed Water	50.0% 40.0%	2.0% 5.0%		
Chlorine/Sodium Hypochlorite	- 100.0%	-		
Polymer Products	20.0% 80.0%			
Ferric Chloride	100.0% -			
Odor Control Chemicals	46.0% 54.0%	-		
Laboratory	75.0% 75.0%	-		100.0% -
Petroleum Products	%0'08 %0'07	-		
Recycled Water Permits				
Insurance				- 100.0%



Exhibit J Apportionment Basis for PC12, PC15, and PC17

	PC12	:	(	PC15	í				PC17		
Apportionment Basis	Recycled Water Permits Equ	Permits its Equally	Co Solids Liquids	Coastal WWTP	/TP C/Liquids		Solids Lic	Region Liquids	Regional WWTP	C/Solids	C/Liquids
Labor - Actual Use (Dept 1)	20.0%		62.5%	13.0%	24.5%		48.0% 37	37.5% 8	8.4%	3.1%	3.1%
Labor - Actual Use (Dept 2)	20.0%	20.0%	54.3%	22.8%	22.9%		11.0% 4	41.5% 3	32.7%	7.4%	7.4%
Labor - Allocation (Dept 1)	20.0%	20.0%	62.5%	13.0%	24.5%		48.0% 37	37.5% 8	8.4%	3.1%	3.1%
Labor - Allocation (Dept 2)	20.0%	20.0%	54.3%	22.8%	22.9%		11.0% 42	41.5% 3	32.7%	7.4%	7.4%
Labor - Overtime (Dept 1)	20.0%	20.0%	62.5%	13.0%	24.5%		48.0% 37	37.5% 8	8.4%	3.1%	3.1%
Labor - Overtime (Dept 2)	20.0%	20.0%	54.3%	22.8%	22.9%		11.0% 4:	41.5% 3	32.7%	7.4%	7.4%
Actual Use - Bills Coded			-	-	100.0%	%C				20.0%	20.0%
Common			-	'	100.0%	%C				20.0%	20.0%
Solids						10	%0.001				
Liquids			100.0%	'	'		- 10	100.0%			
AWT			1	100.0%	-		-	- 10	100.0%	-	-
Outfall - Fixed											
Outfall - Variable											
ETM											
Electricity			100.0%	-	-	32	32.8% 5.	51.5%	2.0%	5.4%	5.4%
Natural Gas			20.0%	-	20.0%		%0.001				
Potable & Reclaimed Water			%0.06	- -	10.0%		56.5% 37	37.0%	-	-	6.5%
Chlorine/Sodium Hypochlorite			1.0%	%0.66	-		- 4	4.0% 9	%0.96	-	-
Polymer Products			43.0%	27.0%	-	82	82.2% 17	17.5% (	0.3%		
Ferric Chloride			100.0%	-	-	10	%0.001	-	-	-	-
Odor Control Chemicals			100.0%	-	-	35	35.0% 65	65.0%	-	-	-
Laboratory			20.0%	20.0%		25	25.0% 50	50.0% 2	25.0%	-	-
Petroleum Products			100.0%	-	-	92	92.6% 7	7.4%	-	-	-
Recycled Water Permits	20.0%	20.0%									
Insurance											



Exhibit K Apportionment Basis for PC21 and PC24

PC21 PC24	Effluent Transmission Main Aliso Creek Ocean Outfall	/D Reach E Capacity	33.0%	33.0%	33.0%	33.0%								- 100%	100%	33.0%											
	Effluent T	Apportionment Basis Reach B/C/D	Labor - Actual Use (Dept 1) 67.0%	Labor - Actual Use (Dept 2) 67.0%	Labor - Allocation (Dept 1) 67.0%	Labor - Allocation (Dept 2) 67.0%	Labor - Overtime (Dept 1)	Labor - Overtime (Dept 2)	Actual Use - Bills Coded	Common	Solids	Liquids	AWT	Outfall - Fixed	Outfall - Variable	<b>ETM</b> 67.0%	Electricity	Natural Gas	Potable & Reclaimed Water	Chlorine/Sodium Hypochlorite	Polymer Products	Ferric Chloride	Odor Control Chemicals	Laboratory	Petroleum Products	Recycled Water Permits	



#### Appendix C

#### **BUDGET BOOK EXPENSE DETAIL**

The following pages were extracted from the Fiscal Year 2017-18 Total Operating Budget Report (Approved June 14, 2017). These tables served as the basis for operating expenses used in the model and this report.



# South Orange County Wastewater Authority FY 2017-18 Total O&M Budget by Project Committee and Member Agency

							l				
	City of	City of	City of San Juan Canistrano	El Toro Water	Emerald Bay Service District	Irvine Ranch Water District	Moulton Niguel Water	Santa Margarita Water District	South Coast Water District	Trabuco Canyon Water District	Total
O&M by Project Committee and Member Agency				District				Target District			50
PC 2 - Jay B. Latham Plant	•	•	1,505,172		•	•	1,034,700	1,838,508	1,311,176	•	5,689,556
PC 5 - San Juan Creek Ocean Outfall		86,912	74,716	•	•		75,632	173,280	65,344	•	475,884
PC 8 - Pretreatment Program	12,780	15,636	14,692	9,184	1,956	18,488	41,668	44,136	33,684		192,224
PC 12 SO- Water Reclamation Permits	•	•	24 620			25 324	67 800	74 320	27 984	24 824	244 872
PC 15 - Coastal Treatment Plant/AW/T	1 308 796	•	) 		55 732	1 2 1 1	275 196	) '	1 360 664	I I	3 000 388
DC 42 Total Designal Mechanistar Bealeignetics	1,000,130	•		790 799	46.064		6 200 276	•	1,000,000,	•	7 040 646
10 07 - John Regional Wastewater Recialination	000,120			034,204	10,004		0,290,370		200,135		7,049,010
PC 21 Effluent Transmission Main				26,040		26,040	11,144				63,224
PC 24 - Aliso Creek Ocean Outfall	63,324	•	•	94,584	3,080	92,284	174,428	•	46,496	•	474,196
Total O&M by Project Committee and Member Agency	1,906,260	102,548	1,619,200	784,072	77,632	162,136	7,978,944	2,130,244	3,204,100	24,824	17,989,960
*Total Administration, General Fund and Residual											
Engineering Expenses by Member Agency (calculated page 7b)	254,912	48,280	222,026	126,355	45,426	55,106	950,593	280,571	403,591	39,376	2,426,235
Administration, General Fund and Residual Engineering Expense	gineering Expen	ises Allocation	Percentages	s by Proje	ct Committee	es Allocation Percentages by Project Committee and Member Agency	r Agency				
Project Committee											
PC 2 - Jay B. Latham Plant		•	93.0%				13.0%	86.3%	40.9%		31.6%
PC 5 - San Juan Creek Ocean Outfall		84.8%		,	,	•	%6.0	8.1%	2.0%	•	2.6%
PC 8 - Pretreatment Program	0.7%	15.2%		1.2%	2.5%	11.4%				•	1.1%
PC 12 SO- Water Reclamation Permits		•		0.0%						100.0%	1.4%
PC 15 - Coastal Treatment Plant/AWT	68.7%	•		,	71.8%			•	42.5%		16.7%
PC 17 - Joint Regional Wastewater Reclaimation	27.3%	•	,	83.4%	21.7%		78.9%	•	11.2%	•	43.6%
PC 21 Effluent Transmission Main	•	,	,	3.3%		16.1%		•		•	0.4%
PC 24 - Aliso Creek Ocean Outfall	3.3%	,	,	12.1%	4.0%	26.9%		•	1.5%	•	2.6%
Total Allocation %'s	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Administeration Conners Frank Desident Frank	2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3		, i	N							
Administration, General Fund and Residual Engineering Expense	дпееппд схреп	ises by Project	ss by Project Committee and Member Agency	and Merni	per Agency						
Project Committee								!			
PC 2 - Jay B. Latham Plant			206,391			•	123,272	242,147	165,157		736,966
PC 5 - San Juan Creek Ocean Outfall		40,919	10,245				9,011	22,822	8,231		91,228
PC 8 - Pretreatment Program	1,709	7,361	2,015	1,480	1,145	6,284	4,964	5,813	4,243	•	35,013
PC 12 SO- Water Reclamation Permits		•	3,376	,	,	8,607	8,078	9,789	3,525	39,376	72,750
PC 15 - Coastal Treatment Plant/AWT	175,017	•	•	,	32,611		32,786		171,390		411,804
PC 17 - Joint Regional Wastewater Reclaimation	69,718	•	•	105,436	9,868		750,374	•	45,189	•	980,584
PC 21 Effluent Transmission Main		•		4,196	•	8,850	1,328	•		•	14,374
PC 24 - Aliso Creek Ocean Outfall	8,468	1	1	15,242	1,802	31,365	20,781	•	5,857	•	83,515
Total Administration, General Fund and											
Residual Engineering Expenses by Project											
Committee and Member Agency	254,912	48,280	222,026	126,355	45,426	55,106	950,593	280,571	403,591	39,376	2,426,235

Total O&M Budget by Project Committee and Member Agency

Project Committee											
PC 2 - Jay B. Latham Plant			1,711,563				1,157,972	2,080,655	1,476,333	•	6,426,522
PC 5 - San Juan Creek Ocean Outfall		127,831	84,961				84,643	196,102	73,575	•	567,112
PC 8 - Pretreatment Program	14,489	22,997	16,707	10,664	3,101	24,772	46,632	49,949	37,927	•	227,237
PC 12 SO- Water Reclamation Permits			27,996			33,931	75,878	84,109	31,509	64,200	317,622
PC 15 - Coastal Treatment Plant/AWT	1,483,813		•		88,343		307,982		1,532,054	•	3,412,192
PC 17 - Joint Regional Wastewater Reclaimation	591,078		•	759,700	26,732		7,048,750		403,941	•	8,830,200
PC 21 Effluent Transmission Main				30,236		34,890	12,472			•	77,598
PC 24 - Aliso Creek Ocean Outfall	71,792			109,826	4,882	123,649	195,209		52,353	•	557,711
Total O&M Budget by Project Committee and											
Member Agency	2,161,172	150,828	1,841,226	910,427	123,058	217,242	8,929,537	2,410,815	3,607,691	64,200	20,416,195

\*Member Agency Administration, Residual Engineering and General Fund expenses are distributed by Member Agency on page 7b.

#### **South Orange County Wastewater Authority** Fiscal Year 2017-18 O&M Project Committee Detail

#### (Does Not Include Administration, Residual Engineering and General Fund Expenses)

		PC 02	PC 12	PC 05	PC 15	PC 17	PC 21	PC 24	PC 08	SOCWA
Salary and Fringe										
**-5000-**-**	Regular Salaries-O&M	1,391,700	50,192	101,732	847,312	1,804,540	-	92,320	83,504	4,371,300
**-5001-**-**	Overtime Salaries-O&M	22,112		472	11,108	39,344	-	544	1,412	74,992
**-5306-**-** **-5401-**-**	Scheduled Holiday Work	13,796	392	2,500	4,804	14,996	-	3,216	200	39,904
**-5700-**-**	Fringe Benefits IN to PC's & Depts. Standby Pay	1,032,652 23,328	37,240	75,484	628,708 23,336	1,338,984 23,332	-	68,488	61,956	3,243,512 69,996
-5700	Total Payroll Costs	2,483,588	87,824	180,188	1,515,268	3,221,196	<del>-</del>	164,568	147,072	7,799,704
Other Expenses	Total Fayron Oosts	2,400,000	07,024	100,100	1,010,200	5,221,150		104,000	147,072	1,133,104
**-5002-**-**	Electricity	524,000	_	1,000	283,004	675,000	_	996	_	1,484,000
**-5003-**-**	Natural Gas	65,012	-	500	3,000	141,000	-	-	_	209,512
**-5004-**-**	Potable & Reclaimed Water	15,004	-	-	13,000	34,004	-	-	-	62,008
**-5005-**-**	Co-generation Power Credit	-	-	-	-	(250,000)	-	-	-	(250,000)
**-5006-**-**	Chlorine/Sodium Hypochlorite	28,000	-	-	99,996	350,004	-	-	-	478,000
**-5007-**-**	Polymer Products	301,004	-	-	2,004	406,008	-	-	-	709,016
**-5008-**-**	Ferric Chloride	100,004	-	-	30,004	125,004	-	-	-	255,012
**-5009-**-**	Odor Control Chemicals	25,000	-	-	85,000	50,000	-	-	-	160,000
**-5010-**-** **-5011-**-**	Other Chemicals - Misc.	1,000 10,500	-	-	9,500	4,000 14,000	-	-	2,500	5,000 36,500
**-5012-**-**	Laboratory Services Grit Hauling - 21A	40,000	-	-	30,004	52,004	-	-	2,300	122,008
**-5013-**-**	Landscaping	48,000	_	-	60,008	74,996	_	_	_	183,004
**-5014-**-**	Engineering - Misc.	105,000	_	20,004	55,000	130,004	62,496	20,004	_	392,508
**-5015-**-**	Management Support Services	17,996	15,992	27,500	9,500	27,508	-	27,504	2,008	128,008
**-5016-**-**	Audit - Environmental	-	-	-	-	-	-	-	500	500
**-5017-**-**	Legal Fees	1,200	5,000	2,004	-	-	-	2,004	2,008	12,216
**-5018-**-**	Public Notices/ Public Relations	-	_	_	_	-	-	-	500	500
**-5019-**-**	Contract Services Misc 29	95,000	-	-	67,000	125,000	-	-	-	287,000
**-5021-**-**	Small Vehicle Expense - 31A	8,004	-	-	5,996	6,000	-	-	900	20,900
**-5022-**-**	Miscellaneous Expense	8,004	-	-	2,996	5,996	-	-	1,496	18,492
**-5023-**-**	Office Supplies - All	25,008	-	-	6,996	9,996	-	-	-	42,000
**-5024-**-**	Petroleum Products	16,004	-	-	2,000	41,996	-	-	-	60,000
**-5025-**-**	Uniforms	12,996	-	- 0.400	5,996	17,008	-	-	4 000	36,000
**-5026-**-** **-5027-**-**	Small Vehicle Fuel - 37A	15,000	0.740	2,496	5,996	12,996	700		1,200	37,688
**-5028-**-**	Insurance - Property/Liability Small Tools & Supplies	70,448 40,004	2,740	5,372	34,640 9,000	90,252 25,000	728	5,364	2,196 3,472	211,740 77,476
**-5030-**-**	Trash Disposal	1,000	_		2,996	1,004		_	3,472	5,000
**-5031-**-**	Safety Supplies	30,396	-	128	24,000	31,352		996	-	86,872
**-5032-**-**	Equipment Rental	3,000	_	-	1,000	3,004	_	-	_	7,004
**-5033-**-**	Recruitment	1,000	-	_	-	-	-	-	_	1,000
**-5034-**-**	Travel Expense/Tech. Conferences	16,976	1,256	2,484	17,156	17,156	-	2,480	3,504	61,012
**-5035-**-**	Training Expense	17,020	-	-	17,020	17,028	-	-	1,496	52,564
**-5036-**-**	Laboratory Supplies	13,004	-	16,000	10,004	19,020	-	16,996	-	75,024
**-5037-**-**	Office Equipment	15,500	-	-	1,000	5,996	-	-	-	22,496
**-5038-**-**	Permits	22,000	124,996	145,000	6,504	35,000	-	131,992	10,008	475,500
**-5039-**-**	Membership Dues/Fees	3,844	-	-	3,800	3,804	-	-	796	12,244
**-5044-**-** **-5046-**-**	Offshore Monitoring - 20A Effluent Chemistry - 20C	-	-	20,004	-	-	-	22,004 29,996	-	42,008
-5046 **-5047-**-**	Access Road Expenses	-	-	16,000	46,996	-	-	29,990	-	45,996 46,996
**-5048-**-**	Storm Damage		_	_	19,000	_		_		19,000
**-5049-**-**	Biosolids Disposal - 21B	550,004	_	-	125,000	866,000	_	_	_	1,541,004
**-5050-**-**	Contract Services Generators - 29A	9,004	_	_	4,004	8,000	_	_	_	21,008
**-5052-**-**	Janitorial Services	40,004	-	_	20,008	40,004	-	-	_	100,016
**-5053-**-**	Contract Serv - Digester Cleaning	-	-	-	-	60,004	-	-	-	60,004
**-5054-**-**	Diesel Truck Maint - 31B	20,004	-	-	996	19,000	-	-	-	40,000
**-5055-**-**	Diesel Truck Fuel - 37B	6,000	-	-	996	7,000	-	-	-	13,996
**-5056-**-**	Maintenance Equip. & Facilities	138,000	-	-	-	190,004	-	-	-	328,004
**-5057-**-**	Maintenance Equip. & Facilities	240,000	-	<del>-</del>	170,004	164,996	-	-	-	575,000
**-5058-**-**	Maintenance Equip. & Facilities	26,000	-	1,004	20,008	25,000	-	996	-	73,008
**-5059-**-** **-5060-**-**	Maintenance Equip. & Facilities	250,000	-	-	-	250,000	-	-	-	500,000
**-5060-^^-^* **-5061-**-**	Maintenance Equip. & Facilities	1 402	-	-	35,000	35,000	-	-	-	70,000
-5061 **-5067-**-**	Mileage Port Cleaning	1,492	-	-	1,196	3,000	-	35,000	-	5,688 35,000
17-5068-02-04-22	MNWD Lab Services and Supplies	-	_	_		23,996		33,000		23,996
**-5069-**-**	Misc-Capital-Dilution & Metering Study	_	_	15,004	_	20,000	_	_	_	15,004
**-5105-**-**	Co-Generation Power Credit - Offset	-	_	-	_	250,000	_	_	_	250,000
**-5301-**-**	Vehicle Pay	7,196	-	4,200	4,200	12,548	-	-	_	28,144
**-5303-**-**	Group Insurance Waiver	3,604	-	· -	3,596	3,596	-	-	_	10,796
**-5305-**-**	Medicare Tax Payments for Employees	3,812	-	2,352	2,964	1,916	-	-	-	11,044
**-5309-**-**	Operating Leases	6,000	-	-	-	6,000	-	-	-	12,000
**-5705-**-**	Monthly Car Allowance	-	-	-	-	52	-	-	-	52
**-5706-**-**	Effluent Pond Cleaning	-		_		90,004	-	-		90,004
**-6500-**-**	IT Allocations in to PC's & Depts.	208,920	7,064	14,644	127,032	271,160		13,296	12,568	654,684
	Total Other Expenses	3,205,968	157,048	295,696	1,485,120	4,628,420	63,224	309,628	45,152	10,190,256

Total O&M by Project Committee

5,689,556 244,872 475,884 3,000,388 7,849,616 63,224 474,196 192,224 17,989,960 Page 34

### South Orange County Wastewater Authority Member Agency Allocations

#### PC 2 Liquids Allocation FY 17/18

Agency	Liquids Ownership Capacity MGD	Ownership Percentage	2016 Flows MGD	FY 17/18 Projected Flows	FY 17/18 Liquids Allocation %
CSJC	4.000	30.77%	1.975	1.975	27.50
MNWD	3.000	23.08%	1.416	1.400	19.49
SCWD	3.750	28.85%	1.717	1.717	23.91
SMWD	2.250	17.30%	2.090	2.090	29.10
	13.000	100.00%	7.198	7.182	100.00

Agency	Solids Ownership Capacity Pounds/Day	Ownership Percentage	3Yr Average Loading #/Day	FY 17/18 Projected Loading #/Day	FY 17/18 Solids Allocation %
CSJC	11,572	30.00	5,402	5,402	23.82
MNWD	8,340	21.62	3,456	3,456	15.24
SCWD	7,715	20.00	4,926	4,926	21.73
SMWD	10,946	28.38	8,890	8,890	39.21
	38,573	100.00	22,674	22,674	100.00

## South Orange County Wastewater Authority FY 2017-18 PC 2 O&M Budget Detail and Wastewater Code Allocations

	T				ater Alloca		
Description	Account #	Total	Liquids		C/Liquids		Total
Regular Salaries-O&M	02-5000-01-00-00		48.4%	42.2%	4.7%	4.7%	100.0%
Regular Salaries-O&M	02-5000-02-00-00	163,194	55.0%	14.8%	15.1%	15.1%	100.0%
Overtime Salaries-O&M	02-5001-01-00-00	21,910	48.4%	42.2%	4.7%	4.7%	100.0%
Overtime Salaries-O&M	02-5001-02-00-00	200	55.0%	14.8%	15.1%	15.1%	100.0%
Electricity	02-5002-01-00-00	524,000	65.0%	25.0%	5.0%	5.0%	100.0%
Natural Gas	02-5003-01-00-00	65,000	65.0%	25.0%	5.0%	5.0%	100.0%
Water	02-5004-01-00-00	15,000	40.0%	50.0%	5.0%	5.0%	100.0%
Chlorine/Sodium Hypochlorite	02-5006-01-00-00	28,000	100.0%				100.0%
Polymer Products	02-5007-01-00-00	301,000		100.0%			100.0%
Ferric Chloride	02-5008-01-00-00	100,000		100.0%			100.0%
Odor Control Chemicals	02-5009-01-00-00	25,000	54.0%	46.0%			100.0%
Other Chemicals - Misc.	02-5010-01-00-00	1,000			50.0%	50.0%	100.0%
Laboratory Services	02-5011-02-00-00	10,500	75.0%	25.0%			100.0%
Grit Hauling - 21A	02-5012-01-00-00	40,000	100.0%				100.0%
Landscaping	02-5013-01-00-00	48,000			50.0%	50.0%	100.0%
Engineering - Misc.	02-5014-01-00-00	5,000			50.0%	50.0%	100.0%
Engineering - Misc.	02-5014-02-00-00	100,000			50.0%	50.0%	100.0%
Management Support Services	02-5015-01-00-00	5,000			50.0%	50.0%	100.0%
Management Support Services	02-5015-02-00-00	13,000			50.0%	50.0%	100.0%
Legal Fees	02-5017-01-03-00	1,200			50.0%	50.0%	100.0%
Contract Services Misc 29	02-5019-01-00-00	95,000			50.0%	50.0%	100.0%
Small Vehicle Expense - 31A	02-5021-01-00-00	8,000	48.4%	42.2%	4.7%	4.7%	100.0%
Small Vehicle Expense - 31A	02-5021-02-00-00		55.0%	14.8%	15.1%	15.1%	100.0%
Miscellaneous Expense	02-5022-01-00-00	8,000			50.0%	50.0%	100.0%
Office Supplies - All	02-5023-01-00-00	25,000			50.0%	50.0%	100.0%
Petroleum Products	02-5024-01-00-00	16,000	80.0%	20.0%			100.0%
Uniforms	02-5025-01-00-00	13,000	48.4%	42.2%	4.7%	4.7%	100.09
Small Vehicle Fuel - 37A	02-5026-01-00-00	15,000	48.4%	42.2%	4.7%	4.7%	100.0%
Insurance - Property/Liability	02-5027-01-00-00	70,448			50.0%	50.0%	100.0%
Insurance - Property/Liability	02-5027-02-00-00				50.0%	50.0%	100.0%
Small Tools & Supplies	02-5028-01-00-00	40,000			50.0%	50.0%	100.0%
Small Tools & Supplies	02-5028-02-00-00				50.0%	50.0%	100.0%
Trash Disposal	02-5030-01-00-00	1,000			50.0%	50.0%	100.0%
Safety Supplies	02-5031-01-00-00				50.0%	50.0%	100.0%
Safety Supplies	02-5031-02-00-00	30,400			50.0%	50.0%	100.0%
Equipment Rental	02-5032-01-00-00	3,000			50.0%	50.0%	100.0%
Recruitment	02-5033-01-00-00	1,000	48.4%	42.2%	4.7%	4.7%	100.0%
Recruitment	02-5033-02-00-00		55.0%	14.8%	15.1%	15.1%	100.0%
Travel Expense/Tech. Conferences	02-5034-01-00-00	13,833			50.0%	50.0%	100.0%
Travel Expense/Tech. Conferences	02-5034-02-00-00	3,138			50.0%	50.0%	100.0%
Training Expense	02-5035-01-00-00	15,900			50.0%	50.0%	100.0%
Training Expense	02-5035-02-00-00	1,118			50.0%	50.0%	100.0%
Laboratory Supplies	02-5036-02-00-00	13,000	75.0%	25.0%			100.0%
Office Equipment	02-5037-01-00-00	15,500			50.0%	50.0%	100.0%
Permits	02-5038-01-00-00				50.0%	50.0%	100.0%
Permits	02-5038-02-00-00	22,000			50.0%	50.0%	100.0%
Membership Dues/Fees	02-5039-01-00-00	3,050			50.0%	50.0%	100.0%
Membership Dues/Fees	02-5039-02-00-00	800			50.0%	50.0%	100.0%
Biosolids Disposal - 21B	02-5049-01-00-00	550,000		100.0%			100.0%
Contract Services Generators - 29A	02-5050-01-00-00	9,000			50.0%	50.0%	100.0%
Janitorial Services	02-5052-01-00-00	40,000			50.0%	50.0%	100.0%
Contract Serv - Digester Cleaning- 29E	02-5053-01-00-00			100.0%			100.0%
Diesel Truck Maint - 31B	02-5054-01-00-00	20,000		100.0%			100.09
Diesel Truck Fuel - 37B	02-5055-01-00-00	6,000		100.0%			100.09
Maintenance Equip. & Facilities	02-5056-01-00-00	138,000		100.0%			100.09
Maintenance Equip. & Facilities	02-5057-01-00-00	240,000	100.0%				100.09
Maintenance Equip. & Facilities	02-5058-01-00-00	26,000			50.0%	50.0%	100.09
Maintenance Equip. & Facilities	02-5059-01-00-00	250,000		100.0%	0.0%	0.0%	100.09
Mileage	02-5061-01-00-00	1,000	48.4%	42.2%	4.7%	4.7%	100.09
Mileage	02-5061-02-00-00	500	55.0%	14.8%	15.1%	15.1%	100.09
IT Direct	02-5077-01-03-00				50.0%	50.0%	100.09
Non-Capital Engineering	02-5114-01-00-00				50.0%	50.0%	100.09
Non-Capital Engineering	02-5114-02-01-00				50.0%	50.0%	100.09
Vehicle Pay	02-5301-01-01-00		48.4%	42.2%	4.7%	4.7%	100.09
Group Insurance Waiver	02-5303-01-01-00	3,600	48.4%	42.2%	4.7%	4.7%	100.09
Group Insurance Waiver	02-5303-02-00-00		55.0%	14.8%	15.1%	15.1%	100.09
Medicare Tax Payments for Employees	02-5305-01-00-00	3,811	48.4%	42.2%	4.7%	4.7%	100.09
Scheduled Holiday Work	02-5306-01-01-00	12,000	48.4%	42.2%	4.7%	4.7%	100.09
Scheduled Holiday Work	02-5306-02-00-00	1,800	55.0%	14.8%	15.1%	15.1%	100.09
Operating Leases	02-5309-01-00-00	6,000			50.0%	50.0%	100.09
Fringe Benefits IN to PC's & Depts.	02-5401-01-00-00	911,551	48.4%	42.2%	4.7%	4.7%	100.09
Fringe Benefits IN to PC's & Depts.	02-5401-02-00-00	121,090	55.0%	14.8%	15.1%	15.1%	100.09
Standby Pay	02-5700-01-00-00	23,333	48.4%	42.2%	4.7%	4.7%	100.09
Monthly Car Allowance	02-5705-01-00-00	7,200	48.4%	42.2%	4.7%	4.7%	100.09
Monthly Car Allowance	02-5705-01-00-00	1,200	55.0%	14.8%	15.1%	15.1%	100.09
Sales Tax	02-5801-01-00-00		33.0%	14.070	50.0%	50.0%	100.09
Sales Tax	02-5801-02-00-00				50.0%	50.0%	100.09
Shipping/Freight	02-5802-01-00-00	404.000			50.0%	50.0%	100.09
IT Allocations in to PC's & Depts.	02-6500-01-00-00	184,882			50.0%	50.0%	100.09
IT Allocations in to PC's & Depts.	02-6500-02-00-00	24,038			50.0%	50.0%	100.09

Total

5,689,556 Page 41

#### South Orange County Wastewater Authority Member Agency Allocations

PC 5	PC 5 Projections								
	FY 17/18								
Member	Outfall	Outfall							
Agency	Flows	Flows							
	MGD	Percent							
CSC	2.283	19.28							
CSJC	2.198	18.56							
MNWD	1.91	16.13							
SCWD	1.718	14.51							
SMWD	31.52								
Totals	11.841	100.00							

#### **South Orange County Wastewater Authority** FY 2017-18 PC 5 O&M Budget Detail and Wastewater Code Allocations

				Wastew	ater Allo	cation %	
Description	Account #	Total	Fixed	EPS	Var 5%	Var 95%	Total
Regular Salaries-O&M	05-5000-01-11-00	11,245	0.0%		5.0%		100.0%
Regular Salaries-O&M	05-5000-02-00-00	90,484	0.0%	0.0%	5.0%		100.0%
Overtime Salaries-O&M	05-5001-01-11-00	370	0.0%	0.0%	5.0%	95.0%	100.0%
Overtime Salaries-O&M	05-5001-02-00-00	100	0.0%	0.0%	5.0%		100.0%
Electricity	05-5002-01-00-00	1,000			5.0%	95.0%	100.0%
Electricity	05-5002-02-00-00				5.0%		100.0%
Natural Gas	05-5003-01-00-00	500			5.0%	95.0%	100.0%
Natural Gas	05-5003-02-00-00				5.0%		100.0%
Engineering - Misc.	05-5014-01-00-00				5.0%		100.0%
Engineering - Misc.	05-5014-02-00-00	20,000			5.0%		100.0%
Management Support Services	05-5015-02-00-00	27,504			5.0%		100.0%
Legal Fees	05-5017-01-00-00				5.0%	95.0%	100.0%
Legal Fees	05-5017-02-00-00	2,000			5.0%	95.0%	100.0%
Small Vehicle Fuel	05-5026-01-00-00	2,500	0.0%	0.0%	5.0%		100.0%
Small Vehicle Fuel	05-5026-02-00-00		0.0%	0.0%	5.0%	95.0%	100.0%
Insurance/Property & Liability	05-5027-01-00-00	5,373	100.0%				100.0%
Insurance - Property/Liability	05-5027-02-00-00		100.0%				100.0%
Safety Supplies	05-5031-02-00-00	128			5.0%	95.0%	100.0%
Travel Expense/Tech. Conferences	05-5034-02-00-00	2,484			5.0%	95.0%	100.0%
Laboratory Supplies	05-5036-02-00-00	16,000			5.0%	95.0%	100.0%
Permits	05-5038-02-00-00	145,000	100.0%				100.0%
Natural Gas - 11-EPS - PC 5	05-5040-02-00-00			100.0%			100.0%
Electricity - 10-EPS - PC 5	05-5041-02-00-00			100.0%			100.0%
Contract Services - 29-EPS - PC 5	05-5042-02-00-00			100.0%			100.0%
Offshore Monitoring - 20A	05-5044-02-00-00	20,000			5.0%	95.0%	100.0%
Offshore Biochemistry - 20B	05-5045-02-00-00				5.0%		100.0%
Effluent Chemistry - 20C	05-5046-02-00-00	16,000			5.0%	95.0%	100.0%
Maintenance Equip & Facilities (Solids) 41-A	05-5056-01-02-00				5.0%	95.0%	100.0%
Maintenance Equip & Facilities (Common)	05-5058-01-00-00	1,000	100.0%				100.0%
Port Cleaning	05-5067-02-00-00				5.0%	95.0%	100.0%
Misc-Capital-Dilution & Metering Study	05-5069-02-00-00	15,000	100.0%				100.0%
Vehicle Pay	05-5301-02-00-00			0.0%	5.0%	95.0%	100.0%
Medicare Tax Payments to Employees	05-5305-02-00-00	2,348		0.0%	5.0%	95.0%	100.0%
Scheduled Holiday Work	05-5306-01-00-00	100	0.0%	0.0%	5.0%		100.0%
Scheduled Holiday Work	05-5306-02-00-00	2,400	0.0%	0.0%	5.0%		100.0%
Fringe Benefits IN to PC's & Depts.	05-5401-01-11-00	8,344	0.0%	0.0%	5.0%		100.0%
Fringe Benefits IN to PC's & Depts.	05-5401-02-00-00	67,139	0.0%	0.0%	5.0%		100.0%
Monthly Car Allowance	05-5705-02-00-00	4,200	0.0%	0.0%	5.0%	95.0%	100.0%
Sales Tax	05-5801-02-00-00						0.0%
IT Allocations in to PC's & Depts.	05-6500-01-00-00	1,692			5.0%	95.0%	100.0%
IT Allocations in to PC's & Depts.	05-6500-02-00-00	12,953			5.0%	95.0%	100.0%
Rounding	_	20					
Total		475,884					
	Page 44		-				

## South Orange County Wastewater Authority FY 2017-18 PC 8 O&M Budget Detail and Wastewater Code Allocations

			Wastewater	Allocation %
Description	Account #	Total	Timecard	Insurance
Regular Salaries-O&M	08-5000-02-00-00	83,505	100.0%	
Overtime Salaries-O&M	08-5001-02-00-00	1,408	100.0%	
Laboratory Services	08-5011-02-00-00	2,500	100.0%	
Management Support Services	08-5015-02-00-00	2,000	100.0%	
Audit - Environmental	08-5016-02-00-00	500	100.0%	
Legal Fees	08-5017-02-00-00	2,000	100.0%	
Public Notices/ Public Relations	08-5018-02-00-00	500	100.0%	
Small Vehicle Expense - 31A	08-5021-02-00-00	896	100.0%	
Miscellaneous Expense	08-5022-02-00-00	1,496	100.0%	
Small Vehicle Fuel - 37A	08-5026-02-00-00	1,196	100.0%	
Insurance - Property/Liability	08-5027-02-00-00	2,199		100.0%
Small Tools & Supplies	08-5028-02-00-00	3,476	100.0%	
Travel Expense/Tech. Conferences	08-5034-02-00-00	3,500	100.0%	
Training Expense	08-5035-02-00-00	1,496	100.0%	
Permits and Fines	08-5038-02-00-00	10,000	100.0%	
Memberships	08-5039-02-00-00	800	100.0%	
Scheduled Holiday Work	08-5306-02-00-00	200	100.0%	
Fringe Benefits IN to PC's & Depts.	08-5401-02-00-00	61,961	100.0%	
IT Alloication	08-6500-02-08-00	12,567	100.0%	
Rounding		24		<u>.</u>
Total		192,224		

#### South Orange County Wastewater Authority Member Agency Allocations

## PC 12 Recycled Water Projections

#### FY 17/18

	Region 9 Recyled Use	% RW Use
Member Agency	2016	2016
	acft	%
CSJC	577	3.44%
ETWD	0	0
IRWD	675	4.02%
MNWD	6493	38.70%
SCWD	1039	6.19%
SMWD	7388	44.03%
TCWD	606	3.61%
Total	16778	100.00%

# South Orange County Wastewater Authority FY 2017-18 PC 12 O&M Budget Detail and Wastewater Code Allocations

			Wastewater	Allocation %
Description	Account #	Total	Region 9 (Var)	Equally (Fixed)
Regular Salaries-O&M	12-5000-02-00-00	50,186	50.0%	50.0%
Overtime Salaries-O&M	12-5001-02-00-00		50.0%	50.0%
Management Support Services	12-5015-02-00-00	16,000	50.0%	50.0%
Legal Fees	12-5017-02-00-00	5,000	50.0%	50.0%
Insurance	12-5027-02-00-00	2,748	50.0%	50.0%
Travel Expense/Tech. Conferences	12-5034-02-00-00	1,264	50.0%	50.0%
Permits	12-5038-02-00-00	125,000	50.0%	50.0%
Medicare Tax Payments for Employees	12-5305-02-00-00		50.0%	50.0%
Scheduled Holiday Work	12-5306-02-00-00	400	50.0%	50.0%
Fringe Benefits IN to PC's & Depts.	12-5401-02-00-00	37,238	50.0%	50.0%
Monthly Car Allowance	12-5705-02-00-00		50.0%	50.0%
IT Allocations in to PC's & Depts.	12-6500-02-00-00	7,071	50.0%	50.0%
Rounding	_	-35		
Total		244,872		

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# South Orange County Wastewater Authority Member Agency Allocations

# PC 15 Projections FY 17-18

	Plant	Plant
Member	Flows	Flow
Agency	MGD	Percent
CLB	1.727	56.59%
EBSD	0.05	1.64%
SCWD	1.275	41.78%
MNWD	0.000	0.00%
Total	3.052	100.00%

## South Orange County Wastewater Authority FY 2017-18 PC 15 O&M Budget Detail and Wastewater Code Allocations

Regular Salaries-O&M						stewater /			
Regular Salaries-OAM									Total
Overtime Salaries OAM	•								
Development   15-5001-02-00-00   200   54.3%   0.0%   22.9%   0.00%   22.8%   100.00	•								
Electricity									
Natural Gas    155003-01-00-00   3,000   90,0%   50,0%   0,0%   00,0%   10,00     Chloriner/Sodulum Hypochlorite   155006-01-00-00   100,000   10,0%   00,0%   57,0%   100,00     Ferric Chloride   155008-01-00-00   30,000   10,00%   57,0%   100,00     Carloratory Services   155011-02-00-00   30,000   10,00%   50,00%   50,00%   100,00     Landscaping   155013-01-00-00   50,000   100,0%   00,0%   100,00     Engineering - Misc.   155014-01-00-00   50,000   100,0%   00,0%   100,00     Engineering - Misc.   155014-01-00-00   50,000   100,0%   00,0%   100,00     Engineering - Misc.   155015-01-00-00   50,000   100,0%   00,0%   100,00     Engineering - Misc.   155015-01-00-00   67,000   100,0%   00,0%   100,00     Engineering - Misc.   155015-01-00-00   67,000   100,0%   00,0%   100,00     Engineering - Misc.   155015-01-00-00   67,000   67,000   100,0%   00,0%   100,00   00,0%   100,00   00,0%   100,00   00,0%   100,00   00,0%   100,00   00,0%   100,00   00,0%   100,00   00,0%   100,00   00,0%   100,00   00,0%   100,00   00,0%   100,00   00,0%   100,00   00,0%   100,00   00,0%   100,00   00,0%   100,00   00,00					0.070		0.070		
Choriner Sodium Hypochlorite							0.0%		
Polymer Products	Water	15-5004-01-00-00	13,000	90.0%		10.0%	0.0%		100.0%
Ferric Chloride    15-5008-01-09-00   30,000   100.0%   1	Chlorine/Sodium Hypochlorite	15-5006-01-00-00	100,000	1.0%				99.0%	100.0%
Doctor Control Chemicals			,					57.0%	
Laboratory Services									100.0%
Girl Hauling - 21A								50.00/	100.0%
Landscaping			,					50.0%	
Engineering - Misc. 15-5014-01-00-00 5,000	8					100.0%	0.0%		
Engineering - Misc.   15-5014-02-00-00   50,000   100,0%   0,0%   100,00				0.076					
Management Support Services   15-5015-01-00-00   5,000   100,0%   0,0%   100,00									
Management Support Services									100.0%
Legal Fees	- · · · · · · · · · · · · · · · · · · ·								100.0%
Small Wehicle Expense - 31A	• ,,	15-5017-01-00-00					0.0%		100.0%
Small Webrick Expense	Contract Services Misc 29	15-5019-01-00-00	67,000			100.0%	0.0%		100.0%
Miscellaneous Expense	Small Vehicle Expense - 31A	15-5021-01-00-00	6,000	62.5%	0.0%	24.5%	0.0%	13.0%	100.0%
Office Supplies - Ail	·			54.3%	0.0%			22.8%	
Petroleum Products									100.0%
Uniforms	• •					100.0%	0.0%		100.0%
Small Vehicle Fuel - 37A					0.00/	0.4.50/	0.00/	40.00/	100.0%
Insurance - Property/Liability									
Insurance - Projectly/Liability   15-5028-01-00-00   9,000   100.0%   0.0%   100.00				02.5%	0.0%			13.0%	
Small Tools & Supplies			34,041						
Trash Disposal 15-5031-01-00-00 3,000 100.0% 0,0% 100.0 Safety Supplies 15-5031-01-00-00 24,000 100.0% 0,0% 100.0 Safety Supplies 15-5031-01-00-00 1,000 100.0% 0,0% 100.0 Safety Supplies 15-5031-01-00-00 1,000 100.0% 0,0% 100.0 Travel Expense/Tech. Conferences 15-5034-01-00-00 1,383 100.0% 0,0% 100.0 Travel Expense/Tech. Conferences 15-5034-01-00-00 1,383 100.0% 0,0% 100.0 Travel Expense/Tech. Conferences 15-5034-01-00-00 1,100 100.0% 0,0% 100.0 Travel Expense/Tech. Conferences 15-5034-02-00-00 1,100 100.0% 0,0% 100.0 Travel Expense 15-5035-01-00-00 1,100 100.0% 0,0% 100.0 Training Expense 15-5035-01-00-00 1,100 100.0% 0,0% 100.0 100.0% 100.0% 100.0			9 000						100.0%
Safety Supplies         15-5031-01-00-00         24,000         100.0%         0.0%         100.0           Safety Supplies         15-5031-02-00-00         24,000         100.0%         0.0%         100.0           Guipment Rental         15-5032-01-00-00         1,000         100.0%         0.0%         100.0           Travel Expense/Tech. Conferences         15-5034-01-00-00         13,833         100.0%         0.0%         100.0           Training Expense         15-5035-02-00-00         15,900         100.0%         0.0%         100.0           Training Expense         15-5035-02-00-00         1,118         100.0%         0.0%         100.0           Training Expense         15-5038-02-00-00         1,000         1,000         100.0%         0.0%         100.0           Office Equipment         15-5037-01-00-00         1,000         1,000         100.0%         0.0%         100.0           Permits         15-5038-01-00-00         3,000         100.0%         0.0%         100.0           Membership Dues/Fees         15-5039-01-00-00         3,000         100.0%         0.0%         100.0           Access Road Expenses         15-5047-01-00-00         1,000         100.0%         0.0%         100.0	• • • • • • • • • • • • • • • • • • • •								100.0%
Safety Supplies	•		-,						100.0%
Equipment Rental   15-5032-01-00-00   1,000   100.0%   0.0%   100.0   17 avel Expense/Tech. Conferences   15-5034-01-00-00   3,324   100.0%   0.0%   100.0   17 avel Expense/Tech. Conferences   15-5034-01-00-00   3,324   100.0%   0.0%   100.0   100.0   17 avel Expense/Tech. Conferences   15-5034-01-00-00   15,900   100.0%   0.0%   100.0			24,000						100.0%
Travel Expense/Tech. Conferences   15-5034-02-00-00   3,324   100.0%   0.0%   100.0   Training Expense   15-5035-01-00-00   15,900   100.0%   100.0%   100.0   Training Expense   15-5035-02-00-00   1,118   Laboratory Supplies   15-5036-02-00-00   1,004   Office Equipment   15-5038-01-00-00   1,000   Permits   15-5038-01-00-00   6,504   100.0%   0.0%   100.0   Permits   15-5038-02-00-00   6,504   100.0%   0.0%   100.0   Permits   15-5038-01-00-00   8.00   100.0%   0.0%   100.0   Membership Dues/Fees   15-5039-01-00-00   8.00   47.000   Storm Damage   15-5047-01-00-00   47.000   Biosolids Disposal - 21B   15-5049-01-00-00   125,000   Diesel Truck Maint - 31B   15-5054-01-00-00   1,000   100.0%   100.0%   100.0   Diesel Truck Maint Fuel   15-5055-01-00-00   2,000   Maintenance Equip. & Facilities   15-5058-01-00-00   3,000   100.0%   100.0%   100.0   Maintenance Equip. & Facilities   15-5060-01-00-00   3,000   100.0%   100.0%   100.0   To Direct   15-507-01-00-00   1,200   100.0%   100.0%   100.0   100.0   To Direct   15-507-01-00-00   1,200   100.0%   100.0%   100.0   100.0   To Direct   15-507-01-00-00   1,200   100.0%   100.0%   100.0   100.0   100.0   To Direct   15-507-01-00-00   1,20		15-5032-01-00-00	1,000			100.0%	0.0%		100.0%
Training Expense         15-5035-01-00-00         15,900         100.0%         0.0%         100.0           Training Expense         15-5035-02-00-00         1,118         100.0%         0.0%         100.0           Laboratory Supplies         15-5036-02-00-00         1,000         75.0%         25.0%         100.0           Office Equipment         15-5038-01-00-00         6,504         100.0%         0.0%         100.0           Permits         15-5038-02-00-00         6,504         100.0%         0.0%         100.0           Membership Dues/Fees         15-5039-01-00-00         3,000         800         100.0%         0.0%         100.0           Access Road Expenses         15-5039-01-00-00         47,000         100.0%         0.0%         100.0           Storm Damage         15-5048-01-00-00         19,000         100.0%         0.0%         100.0           Biosolids Disposal - 21B         15-5049-01-00-00         1,000         100.0%         0.0%         100.0           Contract Services Generators         15-5052-01-00-00         1,000         100.0%         0.0%         100.0           Diesel Truck Maint - 31B         15-5054-01-00-00         1,000         100.0%         100.0%         0.0%         100.0	•	15-5034-01-00-00				100.0%	0.0%		100.0%
Training Expense         15-5035-02-00-00         1,118         100.0%         0.0%         100.00         25.0%         100.00         25.0%         100.00         25.0%         100.00         25.0%         100.00         100.00         25.0%         100.00         100.0%         0.0%         100.00         100.0%         0.0%         100.00         100.00         100.0%         0.0%         100.00         100.00         100.0%         0.0%         100.00         100.00         100.00         100.00         100.0%         0.0%         100.00         100	•								100.0%
Laboratory Supplies 15-5036-02-00-00 Office Equipment 15-5037-01-00-00 15-5038-01-00-00 Permits 15-5038-01-00-00 Rembership Dues/Fees 15-5038-01-00-00 Membership Dues/Fees 15-5039-01-00-00 Membership Dues/Fees 15-5039-02-00-00 Access Road Expenses 15-5047-01-00-00 Access Road Expenses 15-5047-01-00-00 Access Road Expenses 15-5049-01-00-00 Access Road Expenses 15-5050-01-00-00 Access Road Expenses 15-5050-01-0	• .								100.0%
Office Equipment         15-5037-01-00-00         1,000         100.0%         0.0%         100.00           Permits         15-5038-01-00-00         6,504         100.0%         0.0%         100.0           Membership Dues/Fees         15-5038-01-00-00         3,000         100.0%         0.0%         100.0           Membership Dues/Fees         15-5039-01-00-00         3,000         100.0%         0.0%         100.0           Access Road Expenses         15-5047-01-00-00         47,000         100.0%         0.0%         100.0           Storm Damage         15-5048-01-00-00         19,000         100.0%         0.0%         100.0           Biosolids Disposal - 21B         15-5049-01-00-00         4,000         100.0%         0.0%         100.0           Contract Services Generators         15-5052-01-00-00         4,000         100.0%         0.0%         100.0           Diesel Truck Maint - 31B         15-5052-01-00-00         1,000         100.0%         100.0%         100.0           Maintenance Equip. & Facilities         15-5058-01-00-00         1,000         100.0%         100.0         100.0           Mileage         15-5061-01-00-00         1,200         100.0%         24.5%         0.0         13.0%         100.0	• .		,	75.00/		100.0%	0.0%	05.00/	100.0%
Permits				75.0%		100.00/	0.00/	25.0%	
Permits			1,000						
Membership Dues/Fees   15-5039-01-00-00   3,000   100.0%   100.0			6 504						
Membership Dues/Fees   15-5039-02-00-00   800   100.0%   0.0%   100.00									100.0%
Access Road Expenses	•								100.0%
Biosolids Disposal - 21B	•								100.0%
Contract Services Generators	Storm Damage	15-5048-01-00-00	19,000			100.0%	0.0%		100.0%
Janitorial Services   15-5052-01-00-00   20,000   100.0%   100.0%   100.00   100.0%   100.00   100.0%   100.00   100.0	Biosolids Disposal - 21B	15-5049-01-00-00	125,000	100.0%					100.0%
Diesel Truck Maint - 31B						100.0%			100.0%
Diesel Truck Maint Fuel			,			100.0%	0.0%		100.0%
Maintenance Equip. & Facilities         15-5057-01-00-00         170,000         100.0%									100.0%
Maintenance Equip. & Facilities         15-5058-01-00-00         20,000         100.0%         0.0%         100.0% <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>									
Maintenance Equip. & Facilities         15-5060-01-00-00         35,000         100.0%				100.0%		100.0%	0.0%		
Mileage         15-5061-01-00-00         1,200         62.5%         0.0%         24.5%         0.0%         13.0%         100.0           Group Insurance Waiver         15-5303-01-00-00         3,600         62.5%         0.0%         24.5%         0.0%         13.0%         100.0           Medicare Tax Payments for Employees         15-5305-01-00-00         2,964         62.5%         0.0%         24.5%         0.0%         13.0%         100.0           Scheduled Holiday Work         15-5306-01-00-00         3,000         62.5%         0.0%         24.5%         0.0%         13.0%         100.0           Scheduled Holiday Work         15-5306-01-00-00         3,000         62.5%         0.0%         24.5%         0.0%         13.0%         100.0           Scheduled Holiday Work         15-5306-02-00-00         1,800         54.3%         0.0%         22.9%         0.0%         22.8%         100.0           Fringe Benefits IN to PC's & Depts.         15-5401-01-00-00         517,440         62.5%         0.0%         24.5%         0.0%         22.8%         100.0           Standby Pay         15-5700-01-00-00         23,333         62.5%         0.0%         24.5%         0.0%         13.0%         100.0           Sale	• •					100.076	0.076	100.0%	
IT Direct				62.5%	0.0%	24 5%	0.0%		
Group Insurance Waiver         15-5303-01-00-00         3,600         62.5%         0.0%         24.5%         0.0%         13.0%         100.0           Medicare Tax Payments for Employees         15-5305-01-00-00         2,964         62.5%         0.0%         24.5%         0.0%         13.0%         100.0           Scheduled Holiday Work         15-5306-02-00-00         1,800         54.3%         0.0%         24.5%         0.0%         13.0%         100.0           Fringe Benefits IN to PC's & Depts.         15-5401-01-00-00         517,440         62.5%         0.0%         24.5%         0.0%         22.8%         100.0           Fringe Benefits IN to PC's & Depts.         15-5401-01-00-00         517,440         62.5%         0.0%         24.5%         0.0%         22.8%         100.0           Standby Pay         15-5700-01-00-00         23,333         62.5%         0.0%         24.5%         0.0%         22.8%         100.0           Sales Tax         15-5801-01-00-00         4,200         62.5%         0.0%         24.5%         0.0%         13.0%         100.0           Shipping/Freight         15-5801-02-00-00         15-5801-02-00-00         4,200         62.5%         0.0%         24.5%         0.0%         13.0%         1			.,200	02.070	0.070			10.070	100.0%
Scheduled Holiday Work         15-5306-01-00-00         3,000         62.5%         0.0%         24.5%         0.0%         13.0%         100.0           Scheduled Holiday Work         15-5306-02-00-00         1,800         54.3%         0.0%         22.9%         0.0%         22.8%         100.0           Fringe Benefits IN to PC's & Depts.         15-5401-02-00-00         517,440         62.5%         0.0%         24.5%         0.0%         13.0%         100.0           Fringe Benefits IN to PC's & Depts.         15-5401-02-00-00         111,264         54.3%         0.0%         22.9%         0.0%         22.8%         100.0           Standby Pay         15-5700-01-00-00         23.333         62.5%         0.0%         24.5%         0.0%         22.8%         100.0           Monthly Car Allowance         15-5801-01-00-00         4,200         62.5%         0.0%         24.5%         0.0%         13.0%         100.0           Sales Tax         15-5801-02-00-00         517,440         62.5%         0.0%         24.5%         0.0%         13.0%         100.0           Shipping/Freight         15-5802-01-00-00         15,5802-01-00-00         15,5802-01-00-00         10.0         10.0         100.0%         0.0%         100.0	Group Insurance Waiver		3,600	62.5%	0.0%			13.0%	
Scheduled Holiday Work         15-5306-02-00-00         1,800         54.3%         0.0%         22.9%         0.0%         22.8%         100.0           Fringe Benefits IN to PC's & Depts.         15-5401-01-00-00         517,440         62.5%         0.0%         24.5%         0.0%         13.0%         100.0           Standby Pay         15-5700-01-00-00         23,333         62.5%         0.0%         24.5%         0.0%         13.0%         100.0           Monthly Car Allowance         15-5801-01-00-00         4,200         62.5%         0.0%         24.5%         0.0%         13.0%         100.0           Sales Tax         15-5801-01-00-00         5801-00-00-00-00         5801-00-00-00-00-00-00         5801-00-	•								
Fringe Benefits IN to PC's & Depts.         15-5401-01-00-00         517,440         62.5%         0.0%         24.5%         0.0%         13.0%         100.0           Fringe Benefits IN to PC's & Depts.         15-5401-02-00-00         111,264         54.3%         0.0%         22.9%         0.0%         22.8%         100.0           Standby Pay         15-5705-01-00-00         23,333         62.5%         0.0%         24.5%         0.0%         13.0%         100.0           Monthly Car Allowance         15-5801-01-00-00         4,200         62.5%         0.0%         24.5%         0.0%         13.0%         100.0           Sales Tax         15-5801-01-00-00         5801-00-00-00         5801-00-00-00         5801-00-00-00-00         5801-00-00-00-00         5801-00-00-00-00-00-00-00	Scheduled Holiday Work							13.0%	100.0%
Fringe Benefits IN to PC's & Depts.         15-5401-02-00-00         111,264         54.3%         0.0%         22.9%         0.0%         22.8%         100.0           Standby Pay         15-5700-01-00-00         23,333         62.5%         0.0%         24.5%         0.0%         13.0%         100.0           Monthly Car Allowance         15-5801-01-00-00         4,200         62.5%         0.0%         24.5%         0.0%         13.0%         100.0           Sales Tax         15-5801-02-00-00         55801-02-00-00         25.5%         0.0%         24.5%         0.0%         13.0%         100.0           Shipping/Freight         15-5802-01-00-00         55.802-01-00-00	•								
Standby Pay         15-5700-01-00-00         23,333         62.5%         0.0%         24.5%         0.0%         13.0%         100.0           Monthly Car Allowance         15-5705-01-00-00         4,200         62.5%         0.0%         24.5%         0.0%         13.0%         100.0           Sales Tax         15-5801-01-00-00         58601-01-00-00         58601-01-00-00         58601-01-00-00         58601-01-00-00         58601-01-00-00         58601-01-00-00         58601-01-00-00         58601-01-00-00         58601-01-00-00         100.0 <td>=</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	=								
Monthly Car Allowance     15-5705-01-00-00     4,200     62.5%     0.0%     24.5%     0.0%     13.0%     100.0       Sales Tax     15-5801-01-00-00     55801-02-00-00     55801-02-00-00     55801-02-00-00     55801-02-00-00     55802-02-00-00     55802-02-00-00     55802-02-00-00     55802-02-00-00     55802-02-00-00     55802-02-00-00     55802-02-00-00     100.0%     <	•								
Sales Tax       15-5801-01-00-00       0.0         Sales Tax       15-5801-02-00-00       0.0         Shipping/Freight       15-5802-01-00-00       0.0         Shipping/Freight       15-5802-02-00-00       104,819         IT Allocations in to PC's & Depts.       15-6500-02-00-00       104,819         IT Allocations in to PC's & Depts.       15-6500-02-00-00       22,215									
Sales Tax       15-5801-02-00-00       0.0         Shipping/Freight       15-5802-01-00-00       0.0         Shipping/Freight       15-5802-02-00-00       0.0         IT Allocations in to PC's & Depts.       15-6500-01-00-00       104,819       100.0%       0.0%       100.0%         IT Allocations in to PC's & Depts.       15-6500-02-00-00       22,215       100.0%       0.0%       100.0%	•		4,200	62.5%	0.0%	24.5%	0.0%	13.0%	
Shipping/Freight         15-5802-01-00-00         0.0           Shipping/Freight         15-5802-02-00-00         0.0           IT Allocations in to PC's & Depts.         15-6500-01-00-00         104,819         100.0%         0.0%         100.0%           IT Allocations in to PC's & Depts.         15-6500-02-00-00         22,215         100.0%         0.0%         100.0%									0.0%
Shipping/Freight         15-5802-02-00-00         0.0°           IT Allocations in to PC's & Depts.         15-6500-01-00-00         104,819         100.0%         0.0%         100.0°           IT Allocations in to PC's & Depts.         15-6500-02-00-00         22,215         100.0%         0.0%         100.0°									0.0%
IT Allocations in to PC's & Depts.     15-6500-01-00-00     104,819     100.0%     0.0%     100.0°       IT Allocations in to PC's & Depts.     15-6500-02-00-00     22,215     100.0%     0.0%     100.0°									0.0%
IT Allocations in to PC's & Depts. 15-6500-02-00-00 22,215 100.0% 0.0% 100.0			104.819			100.0%	0.0%		100.0%
	•								100.0%
	·								

#### **South Orange County Wastewater Authority Member Agency Allocations**

# PC 17 Operations Cost Allocation FY 2017-18

	Liquids	Solids	AWT
Agency	Percenatages	Percentages	Ownership
	%	%	%
CLB	0.16	12.72	0.00
EBSD	0.01	0.37	0.00
ETWD	0.19	14.80	0.00
MNWD	99.54	63.58	100.00
SCWD	0.10	8.53	0.00
	100.00	100.00	100.00

## South Orange County Wastewater Authority FY 2017-18 PC 17 O&M Budget Detail and Wastewater Code Allocations

				Wa	astewater A	Allocation	%	
Description	Account #	Total	Liquids	Solids	C/Liquids	C/Solids	AWT	Total
Regular Salaries-O&M	17-5000-01-00-00	1,531,656	37.5%	48.0%	3.1%	3.1%	8.4%	100.0%
Regular Salaries-O&M	17-5000-02-00-00	272,893	41.5%	10.9%	7.4%	7.4%	32.7%	100.0%
Overtime Salaries-O&M	17-5001-01-00-00	39,145	37.5%	48.0%	3.1%	3.1%	8.4%	100.0%
Overtime Salaries-O&M	17-5001-02-00-00	200 675,000	41.5% 51.5%	10.9% 32.8%	7.4% 5.4%	7.4% 5.4%	32.7% 5.0%	100.0% 100.0%
Electricity Natural Gas	17-5002-01-00-00 17-5003-01-00-00	141,000	31.3%	100.0%	3.470	3.470	5.0%	100.0%
Water	17-5003-01-00-00	34,000	37.0%	56.5%	6.5%			100.0%
MNWD Potable Water Supplies & Svcs.	17-5004-02-00-00	04,000	37.0%	56.5%	6.5%			100.0%
Co-generation Power Credit	17-5005-01-00-00	(250,000)		100.0%				100.0%
Chlorine/Sodium Hypochlorite	17-5006-01-00-00	350,000	4.0%				96.0%	100.0%
Polymer Products	17-5007-01-00-00	406,000	17.5%	82.2%			0.3%	100.0%
Ferric Chloride	17-5008-01-00-00	125,000	20.0%	80.0%				100.0%
Odor Control Chemicals	17-5009-01-00-00	50,000	65.0%	35.0%	E0 00/	E0.00/		100.0%
Other Chemicals - Misc. Laboratory Services	17-5010-01-00-00 17-5011-02-00-00	4,000 14,000	50.0%	25.0%	50.0%	50.0%	25.0%	100.0% 100.0%
Grit Hauling - 21A	17-5011-02-00-00	52,000	100.0%	23.070			23.070	100.0%
Landscaping	17-5013-01-00-00	75,000	100.070		50.0%	50.0%		100.0%
Engineering - Misc.	17-5014-01-00-00	5,000			50.0%	50.0%		100.0%
Engineering - Misc.	17-5014-02-00-00	125,000			50.0%	50.0%		100.0%
Management Support Services	17-5015-01-00-00	5,000			50.0%	50.0%		100.0%
Management Support Services	17-5015-02-00-00	22,500			50.0%	50.0%		100.0%
Legal Fees	17-5017-01-00-00				50.0%	50.0%		100.0%
Contract Services Misc 29	17-5019-01-00-00	125,000			50.0%	50.0%		100.0%
Postage	17-5020-01-00-00	0.000	27.50/	40.00/	50.0%	50.0%	0.40/	100.0%
Small Vehicle Expense - 31A	17-5021-01-00-00 17-5022-01-00-00	6,000	37.5%	48.0%	3.1%	3.1%	8.4%	100.0%
Miscellaneous Expense Office Supplies - All	17-5022-01-00-00 17-5023-01-00-00	6,000 10,000			50.0% 50.0%	50.0% 50.0%		100.0% 100.0%
Petroleum Products	17-5023-01-00-00	42,000	7.4%	92.6%	30.0%	30.070		100.0%
Uniforms	17-5025-01-00-00	17,000	37.5%	48.0%	3.1%	3.1%	8.4%	100.0%
Small Vehicle Fuel - 37A	17-5026-01-00-00	13,000	37.5%	48.0%	3.1%	3.1%	8.4%	100.0%
Insurance - Property/Liability	17-5027-01-00-00	90,249			50.0%	50.0%		100.0%
Insurance - Property/Liability	17-5027-02-00-00				50.0%	50.0%		100.0%
Small Tools & Supplies	17-5028-01-00-00	25,000			50.0%	50.0%		100.0%
Trash Disposal	17-5030-01-00-00	1,000			50.0%	50.0%		100.0%
Safety Supplies	17-5031-01-00-00				50.0%	50.0%		100.0%
Safety Supplies	17-5031-02-00-00	31,352			50.0%	50.0%		100.0%
Equipment Rental	17-5032-01-00-00	3,000	07.50/	40.00/	50.0%	50.0%	0.40/	100.0%
Recruitment	17-5033-01-00-00	40.000	37.5%	48.0%	3.1%	3.1%	8.4%	100.0%
Travel Expense/Tech. Conferences Travel Expense/Tech. Conferences	17-5034-01-00-00 17-5034-02-00-00	13,833 3,325			50.0% 50.0%	50.0% 50.0%		100.0% 100.0%
Training Expense	17-5034-02-00-00	15,900			50.0%	50.0%		100.0%
Training Expense	17-5035-02-00-00	1,118			50.0%	50.0%		100.0%
Laboratory Supplies	17-5036-01-00-00	.,	50.0%	25.0%	00.070	00.070	25.0%	100.0%
Laboratory Supplies	17-5036-02-00-00	19,020	50.0%	25.0%			25.0%	100.0%
Office Equipment	17-5037-01-00-00	6,000			50.0%	50.0%		100.0%
Permits	17-5038-01-00-00				50.0%	50.0%		100.0%
Permits	17-5038-02-00-00	35,000			50.0%	50.0%		100.0%
Membership Dues/Fees	17-5039-01-00-00	3,000			50.0%	50.0%		100.0%
Membership Dues/Fees	17-5039-02-00-00	800		400.00/	50.0%	50.0%		100.0%
Biosolids Disposal - 21B	17-5049-01-00-00	866,000		100.0%	50.0%	50.0%		100.0%
Contract Services Generators Janitorial Services	17-5050-01-00-00 17-5052-01-00-00	8,000 40,000			50.0%	50.0%		100.0% 100.0%
Contract Serv - Digester Cleaning	17-5053-01-00-00	60,000		100.0%	30.070	30.070		100.0%
Diesel Truck Maint - 31B	17-5054-01-00-00	19,000		100.0%				100.0%
Diesel Truck Fuel - 37B	17-5055-01-00-00	7,000		100.0%				100.0%
Maintenance Equip. & Facilities	17-5056-01-00-00	190,000		100.0%				100.0%
Maintenance Equip. & Facilities	17-5057-01-00-00	165,000	100.0%					100.0%
Maintenance Equip. & Facilities	17-5058-01-00-00	25,000			50.0%	50.0%		100.0%
Maintenance Equip. & Facilities	17-5059-01-00-00	250,000		100.0%				100.0%
Maintenance Equip. & Facilities	17-5060-01-00-00	35,000	07.50/	40.004	0.40/	0.40/	100.0%	100.0%
Mileage	17-5061-01-00-00	3,000	37.5%	48.0%	3.1%	3.1%	8.4%	100.0%
Mileage MNWD Potable Water Supplies & Svcs.	17-5061-02-00-00 17-5068-02-00-00	23,996	41.5%	10.9%	7.4%	7.4%	32.7% 100.0%	100.0% 100.0%
IT Direct	17-5068-02-00-00	23,990			50.0%	50.0%	100.076	100.0%
Employee Recognition	17-5101-01-00-00		37.5%	48.0%	3.1%	3.1%	8.4%	100.0%
Co-Generation Power Credit - Offset	17-5105-01-00-00	250,000	51.5%	32.8%	5.4%	5.4%	5.0%	100.0%
Group Insurance Waiver	17-5303-02-00-00	3,600	41.5%	10.9%	7.4%	7.4%	32.7%	100.0%
Medicare Tax Payments for Employees	17-5305-01-00-00	1,913	37.5%	48.0%	3.1%	3.1%	8.4%	100.0%
Scheduled Holiday Work	17-5306-01-00-00	12,000	37.5%	48.0%	3.1%	3.1%	8.4%	100.0%
Scheduled Holiday Work	17-5306-02-00-00	3,000	41.5%	10.9%	7.4%	7.4%	32.7%	100.0%
Operating Leases	17-5309-01-00-00	6,000	37.5%	48.0%	3.1%	3.1%	8.4%	100.0%
Fringe Benefits IN to PC's & Depts.	17-5401-01-00-00		37.5%	48.0%	3.1%	3.1%	8.4%	100.0%
Fringe Benefits IN to PC's & Depts.	17-5401-02-00-00	202,487	41.5%	10.9%	7.4%	7.4%	32.7%	100.0%
Standby Pay Monthly Car Allowance	17-5700-01-00-00	23,333	37.5%	48.0%	3.1%	3.1%	8.4%	100.0%
Monthly Car Allowance Monthly Car Allowance	17-5705-01-00-00	8,400 4,200	37.5% 41.5%	48.0% 10.9%	3.1% 7.4%	3.1% 7.4%	8.4% 32.7%	100.0% 100.0%
Effluent Pond Cleaning	17-5705-02-00-00 17-5706-01-00-00	90,000	41.5% 100.0%	10.9%	7.4%	7.4%	32.7%	100.0%
Sales Tax	17-5801-01-00-00	30,000	100.070		50.0%	50.0%		100.0%
Sales Tax	17-5801-02-00-00				50.0%	50.0%		100.0%
Shipping/Freight	17-5802-01-00-00				50.0%	50.0%		100.0%
Shipping/Freight	17-5802-02-00-00				50.0%	50.0%		100.0%
IT Allocations in to PC's & Depts.	17-6500-01-00-00	230,502			50.0%	50.0%		100.0%
IT Allocations in to PC's & Depts.	17-6500-02-00-00	40,653			50.0%	50.0%		100.0%
Rounding		53						
Total		7,849,616						

Total

# South Orange County Wastewater Authority FY 2017-18 PC 21 O&M Budget Detail and Wastewater Code Allocations

			Wastewater A	<b>Allocation</b>	า %
Description	Account #	Total	Reach B/C/D	Reach E	Total
Regular Salaries-O&M	21-5000-02-00-00		67.0%	33.0%	100.0%
Engineering - Misc.	21-5014-02-00-00	62,500	67.0%	33.0%	100.0%
Contract Services Misc 29	21-5019-02-00-00		67.0%	33.0%	100.0%
Insurance - Property/Liability	21-5027-02-00-00	731	67.0%	33.0%	100.0%
Small Tools & Supplies	21-5028-01-00-00		67.0%	33.0%	100.0%
Small Tools & Supplies	21-5028-02-00-00		67.0%	33.0%	100.0%
Misc-Capital-Dilution & Metering Study	21-5069-02-00-00		67.0%	33.0%	100.0%
Fringe Benefits IN to PC's & Depts.	21-5401-02-00-00		67.0%	33.0%	100.0%
Rounding		-7			

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63,224

Total

#### South Orange County Wastewater Authority Member Agency Allocations

# PC 24 Projections FY 2017-18

Member	Outfall	Variable
Agency	Flow	Cost
	MGD	Percent
CLB	1.727	16.5%
EBSD	0.050	0.5%
<b>ETWD</b>	2.597	24.8%
IRWD	2.554	24.4%
MNWD	2.872	27.4%
SCWD	0.679	6.5%

Total 10.479 100.0%

# South Orange County Wastewater Authority FY 2017-18 PC 24 O&M Budget Detail and Wastewater Code Allocations

			Wa	astewater Al	location	1 %
Description	Account #	Total	Var 5%	Var 95%	Fixed	Total
Regular Salaries-O&M	24-5000-01-00-00	6,693	5.0%	95.0%		100.0%
Regular Salaries-O&M	24-5000-02-00-00	85,625	5.0%	95.0%		100.0%
Overtime Salaries-O&M	24-5001-01-00-00	346	5.0%	95.0%		100.0%
Overtime Salaries-O&M	24-5001-02-00-00	200	5.0%	95.0%		100.0%
Electricity	24-5002-01-00-00	1,000	5.0%	95.0%		100.0%
Electricity	24-5002-02-00-00		5.0%	95.0%		100.0%
Engineering - Misc.	24-5014-02-00-00	20,000			100.0%	100.0%
Management Support Services	24-5015-02-00-00	27,504			100.0%	100.0%
Legal	24-5017-02-00-00	2,000			100.0%	100.0%
Insurance - Property/Liability	24-5027-02-00-00	5,366			100.0%	100.0%
Safety Supplies	24-5031-02-00-00	1,000	5.0%	95.0%		100.0%
Travel Expense/Tech. Conferences	24-5034-02-00-00	2,484			100.0%	100.0%
Laboratory Supplies	24-5036-02-00-00	17,000	5.0%	95.0%		100.0%
Permits	24-5038-02-00-00	131,992			100.0%	100.0%
Offshore Monitoring - 20A	24-5044-02-00-00	22,000			100.0%	100.0%
Effluent Chemistry - 20C	24-5046-02-00-00	30,000	5.0%	95.0%		100.0%
Maintenance Equip. & Facilities(Common)	24-5058-01-00-00	1,000	5.0%	95.0%		100.0%
Inspections/Port Cleaning	24-5067-02-00-00	35,000			100.0%	100.0%
Misc-Capital-Dilution & Metering Study	24-5069-02-00-00				100.0%	100.0%
Scheduled Holiday Work	24-5306-01-00-00	100	5.0%	95.0%		100.0%
Scheduled Holiday Work	24-5306-02-00-00	3,112	5.0%	95.0%		100.0%
Fringe Benefits IN to PC's & Depts.	24-5401-01-00-00	4,966	5.0%	95.0%		100.0%
Fringe Benefits IN to PC's & Depts.	24-5401-02-00-00	63,534	5.0%	95.0%		100.0%
IT Allocations in to PC's & Depts.	24-6500-01-00-00	1,007			100.0%	100.0%
IT Allocations in to PC's & Depts.	24-6500-02-00-00	12,289			100.0%	100.0%
Rounding		(22)				

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Total

474,196

#### Appendix D

#### **OUTFALL COST MEMO**

The following memo was developed by SOCWA staff to examine potential options for outfall flow capacity costs to meet requests from the SOCWA Board.



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MARCH 2019



## Memorandum

**DATE:** March 20, 2019

**TO:** SOCWA Member Agency Finance and Engineering Managers

**FROM:** Betty Burnett, General Manager

**STAFF CONTACT:** Amber Baylor, Director of Environmental Compliance

Jim Burror, Director of Operations

**SUBJECT:** Fixed Costs Recommendation for the Ocean Outfalls

#### National Pollutant Discharge Elimination System (NPDES) Permit Flow Requirements

The NPDES permit expires in five-year cycles, and annual costs are determined by the permitted flows. Each discharge that is included in the permit requires submittal of the design flow capacity included in the permit application. SOCWA submits the NPDES permits to the San Diego Regional Water Quality Control Board (SDRWQCB) on behalf of member agencies after input from member agencies through the NPDES Technical Advisory Group. SOCWA manages two NPDES permits: the Aliso Creek Ocean Outfall (ACOO) and the San Juan Creek Ocean Outfall (SJCOO). The monitoring costs to comply with the NPDES permits do not change based on flow.

The following table includes the flows that were approved by the TAG for ACOO & SJCOO in 2015. The Report of Waste Discharge was submitted to the SDRWQCB on October 31, 2016, due to the requirement that the permit application be submitted to the SDRWQCB 180 days prior to the expiration of the permits which were May 31, 2016. The permit is under administrative relief due to the expiration of the permits. The SDRWQCB has projected that the ACOO & SJCOO will be brought to the Board at the December 2019 meeting.

ACOO	SJCOO
<ul> <li>Regional Treatment Plant: 12.0mgd</li> <li>Coastal Treatment Plant: 6.7mgd</li> <li>Los Alisos Water Recycling Plant: 7.5mgd</li> <li>El Toro Water Reclamation Plant: 6.0mgd</li> <li>Irvine Desalter Project: 1.0mgd</li> <li>Shallow Ground Water Unit: 0.85mgd</li> <li>Aliso Creek Water Harvesting Unit: 0.32mgd</li> </ul>	<ul> <li>JB Latham Treatment Plant: 13.0mgd</li> <li>Chiquita Water Reclamation Plant: 9.0mgd</li> <li>3A Water Reclamation Plant: 6.0mgd</li> <li>City of San Clemente Water Reclamation Plant: 6.98mgd</li> <li>City of San Juan Ground Water Plant: 2.2mgd</li> <li>South Coast Water District Ground Water Recovery Facility: 0.6mgd</li> <li>City of San Clemente Segunda Deschecha Runoff Plant: 1.0mgd</li> <li>Lake Mission Viejo Brine: 1.0mgd</li> </ul>
Total = 34.37mgd	Total = 39.78mgd

#### **Fee Determination Calculation**

The California Code of Regulations, Title 23, Division 3, Chapter 9, Article 1 sets the Fee Structure for the water quality fee structures applied in permits. In FY 16-17 it was identified by the California Department of Finance that the State Water Resources Control Board would need to increase fees due to a pending budget shortfall. However, in the FY 17-18 there was a one-time fee reduction of 12.6% that was not seen in FY17-18 but was applied to FY18-19. The NPDES annual fee now equals \$2,268 plus 4,011 multiplied by the permitted flow, in mgd. If there is no permitted effluent flow specified, the fee shall be based on the design flow of the facility. NPDES permitted industrial discharges with a threat/complexity rating of 1A (SJCOO & ACOO both qualify) require an additional \$15,000 and public wastewater treatment facilities with approved pretreatment programs are subject to a surcharge of \$10,000.

	ACOO	SJCOO
FY	Fee (\$)	Fee (\$)
14-15	\$137,375	\$143,454
15-16	\$137,375	\$143,454
16-17	\$137,375	\$143,454
17-18	\$137,375	\$143,454
18-19	\$165,126	\$172,815

Table 1: Cost of Permitted flows for ACOO & SJCOO FY 14-15 through FY 18-19

Unless there is an increase in fees associated with the permit from the SWRCB fee change, the fee structure should stay consistent as demonstrated in FY 14-15 through FY 17-18. The only way to change the cost of the permit is to adjust the flows associated with each facility in the next ROWD or file an amendment in the current

ROWD for a reduction of flows. Tables 2 & 3 provide an analysis of the average flow at each of the facilities for 2018.

Agency	2017 Avg Annual Daily Flow MGD	2018 Avg Annual Daily Flow MGD	2017 Peak Daily Flow MGD	2018 Peak Daily Flow MGD	Outfall Ownership MGD
CLB	1.677	1.555	3.201	2.245	5.500
EBSD(1)	0.053	0.048	0.060	0.052	0.390
ETWD	2.398	2.330	5.997	7.108	8.151
IRWD	2.290	2.416	7.001	6.337	7.880
MNWD	2.788	2.541	13.680	9.330	21.924
SCWD	0.995	0.320	2.847	1.559	6.155
Total	10.203	9.210	32.786	26.631	50.000
(1) Daily of	data is not avail	able.			

Table 2: ACOO Flows 2017 and 2018 Flows

	2017 Avg	2018 Avg	2017 Peak	2018 Peak	Outfall
	Annual Daily	Annual Daily	Daily Flow	Daily Flow	Ownership
Agency	Flow MGD	Flow MGD	MGD	MGD	MGD
CSC	2.106	2.455	5.550	4.420	13.300
SCJC	2.594	2.486	6.639	3.933	8.860
MNWD	1.400	1.400	3.833	2.292	12.410
SCWD	1.822	1.837	5.625	3.976	9.970
SMWD	2.993	1.169	11.523	5.846	35.460
Total	10.916	9.347	33.170	20.467	80.000

Table 3: SJCOO 2017 and 2018 Flows

#### **Cost Impact**

Using the flows with the FY 18-19 water quality fee structure, the annual cost could drop to \$64,446 for ACOO and \$65,381 for SJCOO. However, the regulatory risk associated with using the reduced flows includes high flow years and an anti-back sliding trigger that will not allow for more flow should the facility need it. The regulatory risk associated with the savings is displayed in Table 4 below.

	ACOO		SJCOO	
Current Permit Cost	\$165,126		\$172,815	
2017 Peak Flow Cost	\$137,929		\$101,606	
Difference	\$27,197		\$71,209	
Capital Share - Fixed Costs versus Variable				
Agency	Current	2017 Peak Flow	Potential Savings/Cost	
CLB	\$18,164	\$13,466	\$4,697	
EBSD	\$1,288	\$252	\$1,036	
ETWD	\$26,919	\$25,229	\$1,690	
IRWD	\$26,024	\$29,453	(\$3,429)	
MNWD	\$99,212	\$11,741	\$87,471	
SCWD	\$41,864	\$29,208	\$12,656	
CSC	\$28,730	\$17,001	\$11,730	
CSJC	\$19,139	\$20,336	(\$1,197)	
SMWD	\$76,600	\$35,297	\$41,303	

Table 4: Permit cost distribution for reduced flows based on fixed cost capacity

#### **Staff Recommendation:**

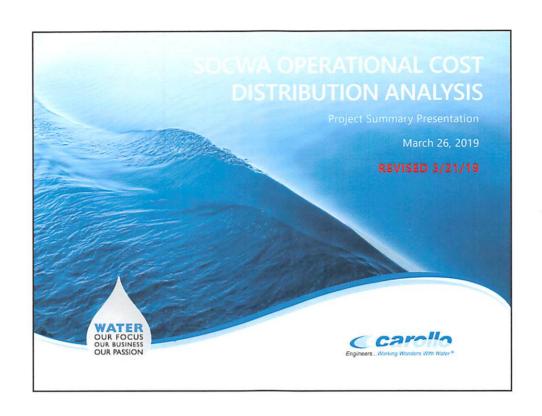
The monitoring costs and labor costs remain fixed as those costs do not change with the changing flows on an annual basis. Staff recommends using the fixed cost methodology for PC 5 & PC24. Staff also recommends not reducing the permitted flows from each treatment plant included in the NPDES permits.

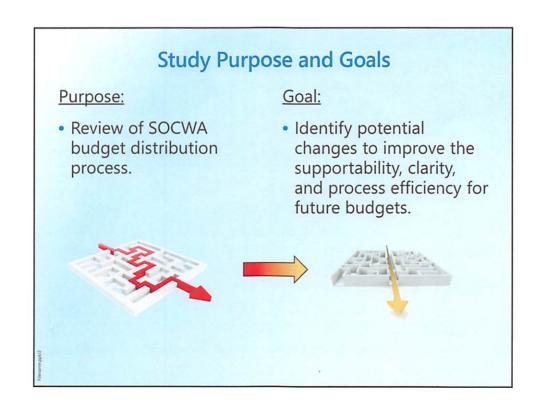
This is because reducing the permitted value will expose the agencies to the following risks:

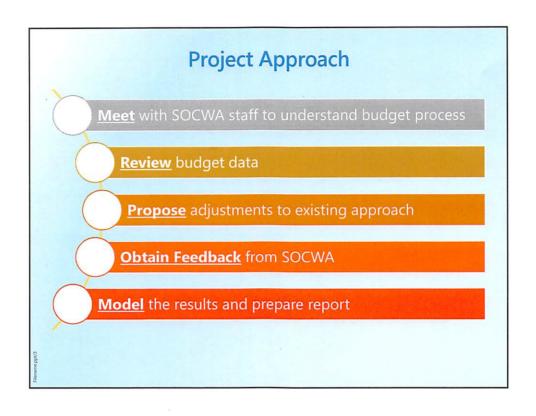
- 1) An exceedance of the average permitted value over the monthly average result in a permit violation and an unauthorized discharge violation, or spill, with minimum mandatory penalties of \$10 per gallon.
- 2) If the permitted discharge value is lowered, the RWQCB will not allow for the permitted value to be increased, due to anti-degradation prohibitions in the Clean Water Act, without physical modifications to the outfall. This includes the associated design, assessment, permit application, and public hearings required for the approval on an increased permitted flow. The costs would be similar to

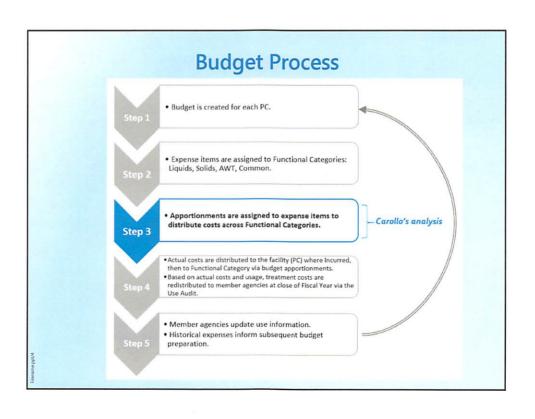
Fixed Costs Recommendation for the Ocean Outfalls March 20, 2019 Page 5 of 5

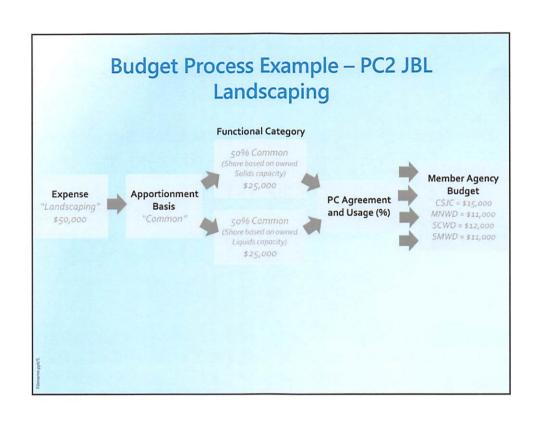
the costs incurred every five years to renew the permit, plus the capital costs to modify the outfall system. Past estimates for this work is between \$250,000 to \$500,000, and again the outcome of the process is subject to the approval of the RWQCB.

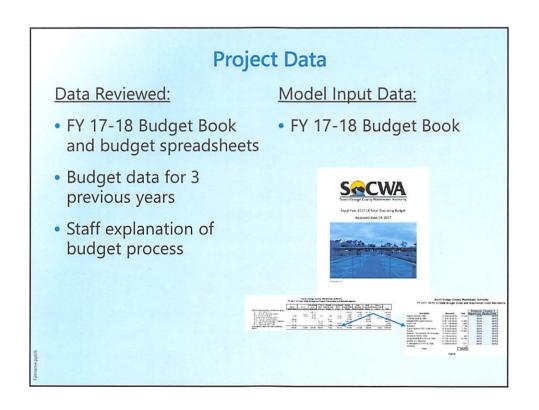












#### **Analytical Model**

- Excel spreadsheet model includes FY 17-18 budget numbers broken down by expense accounts
- Assigned Apportionments and Functional Categories to expenses

 Adjust categories or distributions to see impacts on budget





#### **Summary of Recommended Changes**

- 1. Salary and Benefits
  - Expense recategorization
- 2. Outfall PCs
  - Expense recategorization
- 3. WWTP PCs
  - Electricity, natural gas, and ferric chloride redistributions

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#### **Recommended Change 1**

- Salary and Benefits
  - Change to "Common" from "Labor-Allocation"
  - These expenses are not reflective of time sheets
  - ~\$135,000 total budget

able 5	Proposed Appor	tionment Changes fo	or Treatment Plant Po	Cs
Account Code	Expense	Current Apportionment	Proposed Apportionment	Reasoning
5700	Standby Pay	Labor – Allocation	Common	Pay is not dependent on process that requires work.
5021	Small Vehicle Expense	Labor – Allocation	Common	Benefits entire plant equally not reflective of timesheets
5026	Small Vehicle Fuel	Labor – Allocation	Common	Benefits entire plant equally not reflective of timesheets
5033	Recruitment	Labor – Allocation	Common	Benefits entire plant equally not reflective of timesheets
5061	Mileage	Labor – Allocation	Common	Benefits entire plant equally not reflective of timesheets

## Recommended Change 2 - REVISED

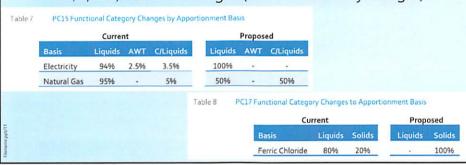
- Outfall PCs (5- ACOO and 24-SJCOO)
  - Change to "Fixed" from "Variable"
  - Most outfall expenses are independent of flow
  - ~\$950,000 total budget

Account Code	Expense	Current Apportionment <sup>©</sup>	Proposed Apportionment	Reasoning
5000	Regular Salaries - O&M	Variable	Fixed	Not dependent on amount of flow
5001	Overtime Salaries	Variable	Fixed	Not dependent on amount of flow
5302	Performance-Based Ment Pay	Variable	Fixed	Not dependent on amount of flow
5306	Scheduled Holiday Work	Variable	Fixed	Not dependent on amount of flow
5307	Weekend Shift Pay	Variable	Fixed	Not dependent on amount of flow
5315	Comp Time - O&M	Variable	Fixed	Not dependent on amount of flow
5401	Fringe Benefits	Variable	Fixed	Not dependent on amount of flow
5700	Standby Pay	Variable	Fixed	Not dependent on amount of flow
5011	Laboratory Services	Variable	Fixed	Not dependent on amount of flow
5014	Engineering - Misc. 19	Variable	Fixed	Not dependent on amount of flow
5015	Management Support Services (3)	Variable	Fixed	Not dependent on amount of flow
5017	Legal Fees (1)	Variable	Fixed	Not dependent on amount of flow
5031	Safety Program & Supplies	Variable	Fixed	Not dependent on amount of flow
5034	Travel Expense/Tech. Conferences	Variable	Fixed	Not dependent on amount of flow
5036	Laboratory Supplies	Variable	Fixed	Not dependent on amount of flow
5044	Offshore Monitoring	Variable	Fixed	Not dependent on amount of flow
5045	Offshore Biochemistry - 20B	Variable	Fixed	Not dependent on amount of flow
5046	Effluent Chemistry	Variable	Fixed	Not dependent on amount of flow
5058	Maintenance Equip. & Facilities (Corntroon)	Variable	Fixed	Not dependent on amount of flow
5301	Vehicle Pay	Variable	Fixed	Not dependent on amount of flow
5305	Medicare Tax Psyments for Employees	Variable	Fixed	Not dependent on amount of flow
5795	Monthly Car Allowance	Yariable	Fixed	Not dependent on amount of flow
6500	IT Allocations in to PC's & Depts.	Variable	Fixed	Not dependent on amount of flow

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- WWTP PCs (2-JBL, 15-CTP & 17 RTP)
  - Electricity, natural gas, and ferric
  - Updated apportionments to better represent actual usage based on investigations by staff or studies
  - Revisit annually and adjust as needed
  - $\sim 1,950,000$  total budget (76% = electricity budget)



#### **Resulting Outputs**

- A look at resulting budget impacts at 3 different levels:
  - 1. Apportionment Basis totals
  - 2. Functional Category totals
  - 3. Member Agency budgets

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## **Resulting Outputs – Apportionment Basis**

- Redistributes budget within a PC between Basis
- Impact: ~\$655,000 redistributed (3.6% of total budget)

Apportionment Basis		PC2		PC5		PCS		PC12		PC15		PC17	p	C21		PC24	Change		%
Labor - Actual Use	15	(23,333)	5		\$		5		5	(23,333)	5	-	5		\$		\$ (	46,666)	-0.39
Labor - Allocation	5	(25,500)	5		\$		\$		5	(13,200)	5	(45,333)	\$	7.	\$		5 (	84,033)	-0.59
Labor - Overtime	5		5		5		S		5		5		5		\$		\$	7.	0.09
Actual Use - Bills Coded	5	-	5		5	-	5		5		5	-	5	-	\$	- 2	\$		0.09
Common	5	48,833	5		5		\$	4	5	36,533	S	45,333	5		5	12	5 1	30,699	0.79
Solids	S	-	5		\$		5	-	5	- 4	5		5		\$		5		0.09
Liquids	5	-	5		\$		5		5		5		\$	2:	\$		\$		0.09
AWT	5		5		5		5		\$		5		\$		5		\$		0.09
Outfall - Fixed	5		5	309,491	5	-	S		5		5		\$		Ś	214,576	\$ 5	24,067	2.99
Outfall - Variable	5		5	(309,491)	\$		5	-	5		\$		\$		\$	(214,576)	\$ (5	24,067)	-2.9
ETM	5		5		\$		\$		5		5	-	\$		5		\$		0.09
Electricity	5		5		\$	-	\$		5		\$	-	\$	*	\$		\$		0.09
Natural Gas	5		5		\$		5		5	-	\$		5		5	+	\$		0.00
Potable & Reclaimed Water	5	1 14	5		5		\$		5		5		\$	+:	S		\$		0.09
Chlorine/Sodium Hypochlorite	\$	-	5	-	\$		5	40	5		5		\$	+	\$		\$		0.09
Polymer Products	5		5		\$		\$		\$		\$		\$		\$		\$		0.09
Ferric Chloride	\$		\$		5	-	5		\$		\$		\$	-	\$		\$		0.00
Odor Control Chemicals	\$		\$		\$		\$		\$		\$		\$		\$		\$		0.09
Laboratory	5		5		\$		5		5		S		\$		5		\$		0.09
Petroleum Products	\$		5	-	5		\$		\$		5	-	\$	*	\$		\$		0.09
Recycled Water Permits	5		5		\$	*	5	-	5		\$		5		S		\$		0.03
Insurance	5		5	-	\$	-	5	-	\$		5		5	-	\$		5		0.09
Total Changes	\$		\$		\$		5		\$		5		5		\$		5		

## **Resulting Outputs – Functional Categories**

- Redistributes Functional Category budget within a PC
- Impact: \$625,685 redistributed (3.5% of total budget)

					Ti	eat	ment Plan	ts					Outf	alls		Others		
			Solids		Liquids		AWT		/Solids	C	/Liquids	0	utfall Flow	C	apacity		PC Tota	al Change
PC2	JB Latham WWTP	5	11,029	5	(30,168)	Į,		5	9,569	5	9,569						\$	
PC5	San Juan Creek Outfall	31								A Yes		\$	(309,491)	\$	309,491		\$	
PC8	Pre-Treatment																\$	
PC12	Recycled Water Permits	201								100					TENTO I		\$	
PC15	Coastal WWTP			5	(7,203)	S	(11,824)			\$	19,027	m					\$	
PC17	Regional WWTP	5	11,885	\$	(42,939)	S	(9,484)	5	20,269	5	20,269						\$	
PC21	ETM																\$	-
PC24	Aliso Creek Outfall						100		50 (-)			5	(214,576)	\$	214,576		\$	
Tot	al Functional Category Change	\$	22,915	\$	(80,310)	\$	(21,308)	\$	29,838	\$	48,866	\$	(524,067)	\$	524,067		\$	

## **Resulting Outputs – Member Agencies**

- Redistributes budget among Member Agencies
- Impact: \$55,842 redistributed (0.3% of total budget)

Member Agency	J.B.	PC2 Latham		PC5 SJCOO	Pre	PC8 -Treatment*		Recycled Water Permits*	, 1	PC15 Coastal	R	PC17 legional		PC21 ETM*		PC24 ACOO	Tot	tal Change
City of San Juan Capistrano	5	2,031	S	(21,990)	5	(8)	5	0									\$	(19,967
Moulton Niguel Water District	5	2,153	S	(1,825)	5	(3)	5	(2)	5	5,251	5	(21,049)	\$	(1)	5	33,508	\$	18,031
South Coast Water District	5	619	5	(6,004)	5	1	5	8	\$	(7,811)	5	4,881			5	11,880	\$	3,574
Santa Margarita Water District	S	(4,856)	5	37,623	5	(1)	5	10									\$	32,77
El Toro Water District					5	(10)					5	8,966	5	4	S	(17,277)	5	(8,31
Irvine Ranch Water District	575				5	(4)	5	11					5	4	\$	(17,549)	\$	(17,53
City of San Clemente	Sile I		S	(7,823)	5	(2)											\$	(7,82
Trabuco Canyon Water District	0111						5	8							111		\$	
Emerald Bay Service District	U.				5	(2)			5	494	5	258			5	619	\$	1,36
City of Laguna Beach					5	4			5	2,067	5	6,891			\$	(11,160)	5	(2,19
Rounding	5	(54)	5	(20)	5	(24)	\$	35	5	2			5	7	5	22	5	(8
Change in Total PC Budget	s	-	\$		5		\$		S		Ś		Ś		ŝ		5	

Budget Increase / (Budget Decrease)

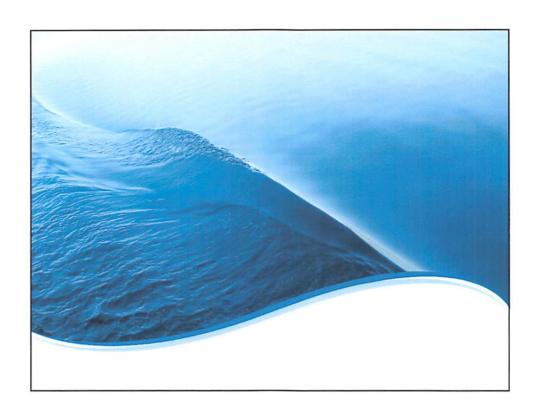
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## **Project Schedule/Next Steps**



- Finance Committee March 26, 2019 (Recommend Board Receive and File)
- Include in draft budget materials On going
- Board Meeting April 4, 2019 (Receive and file)

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**Budgeted:** Yes

**Budget amount: \$75,000** 

Project Number: 3603-000 Legal Counsel Review: No

Meeting Date: April 4, 2019

**TO:** Project Committee No. 5 Board of Directors

FROM: Betty Burnett, General Manager

**STAFF CONTACT:** Amber Baylor, Director of Environmental Compliance

**SUBJECT:** Updated Modeling Work for the San Juan Creek Ocean Outfall (SJCOO)

#### Summary

The California State Water Resources Control Board has endorsed an updated version of the computer model to assess dilution capacity at the point of discharge into the Pacific Ocean. The previous dilution modeling performed by Michael Baker International (MBI), required significant capital investment to achieve attainability of anti-backsliding provisions at the outfall diffuser ports at the San Juan Creek Ocean Outfall (SJCOO). The new model includes six degrees of freedom that results in reduced capital cost for outfall diffuser modifications to comply with California anti-backsliding criteria. The SJCOO NPDES permit is in administrative review status. The work by MBI is estimated to be \$17,000 and can be completed by May 31, 2019, to incorporate the results of the updated modeling work into the SJCOO NPDES permit.

#### **Discussion**

The Visual Plumes UM3 dilution model is the model used in the study approved by the SOCWA Board of Directors in December 2016: *Hydrodynamic Modeling of Dilution Capacity for the Aliso Creek and San Juan Creek Ocean Outfalls*. The new model is called Plumes 18b UM3. The MBI study determined that the most cost-effective and proven method for achieving 200:1 dilution for discharges exceeding 20 mgd was to retrofit duckbill check valves to the 125 discharge ports of the SJCOO diffuser. The estimated costs for capital improvements was approximately \$1.3 M.

The updated Plumes 18b model was utilized at the request of the SWRCB to include various wastewater flows from the SJCOO in connection to the Doheny Desal project. The four (4) baseline flow scenarios used in the modeling suggest that dilution credits in the range of 200:1 are possible without any capital improvements to the SJCOO. However, the Plumes 18b dilution results indicated that retrofitting duckbill check valves to only a handful of discharge ports, rather than all 125 ports as presently specified, will result in dilution credits of 200:1 or higher to meet anti-backsliding provisions. Therefore, the costs of capital improvements to the SJCOO to achieve 200:1 dilution credit could be lowered from present estimates that are on the order of \$1.3 M to less than \$100K, simply by installing fewer duckbill check valves.

#### **Advisory Committee Review**

The SOCWA Engineering Committee met on April 3, 2019, to review the proposal.

#### **Prior Related Project Committee or Board Action(s)**

On December 8, 2016, the Board of Directors approved the award of contract to Michael Baker International for \$125,000.

#### **Fiscal impact**

The cost of the additional modeling work is \$17,000. There is capital budget money in Engineering Project Number 3603-000 to cover the updated project. The cost per agency is broken down in the following table:

A	Comital Own anahin (0/)	Day Aganay Cost (¢)
Agency	Capital Ownership (%)	Per Agency Cost (\$)
City of San Clemente	16.63%	\$2,826.25
City of San Juan Capistrano	11.08%	\$1,882.75
Moulton Niguel Water District	15.51%	\$2,637.13
South Coast Water District	12.46%	\$2,118.63
Santa Margarita Water District	44.33%	\$7,535.25
Total	100.00%	\$17,000.00

#### Recommendation

Staff recommends that the Project Committee No. 5 Board of Directors approve the additional modeling work for the San Juan Creek Ocean Outfall in the amount of \$17,000.

Legal Counsel Review: No

Meeting Date: April 4, 2019

**TO:** Project Committee No. 5 & 24 Board of Directors

FROM: Betty Burnett, General Manager

**STAFF CONTACT:** Amber Baylor, Director of Environmental Compliance

**SUBJECT:** SB332: Hertzberg Bill on Prohibition of Ocean Dischargers

#### Legislative Update

SB332 has been introduced by Senator Robert Hertzberg representing the 18<sup>th</sup> District (Van Nuys). The California Association of Sanitation Agencies (CASA) State Legislative Committee met on March 15, 2019, to discuss the status of the bill. CASA has taken an oppose stance to this bill. The bill is triple referred, meaning that it must make it through three (3) committees before it moves to an official vote on the Senate Floor. The three (3) committees that it must clear, in order of succession, are:

Senate Environmental Quality Senate Natural Resources Senate Judiciary

The Senate Environ**me**ntal Quality meets on April 3, 2019. Pat Bates, representing the SOCWA service area, sits on the Senate Environmental Committee. SOCWA has submitted a letter to Senator Bates in opposition of the bill.

#### **Penalty Impact Analysis**

SB 332 includes language to reduce effluent discharge by 50% by 2030. The following table on page 2 provides an initial review of the fiscal impact to the policy based on flows from 2010 to 2018.

Status Quo Analysis f	or San Dieg	go Regional	Water O	uality Contr	ol Board	
Ocean Outfall	Effluent Baseline <sup>1</sup> Flow (mgd)	Annual Flow (mg/yr)	2030 Target (mg/yr)	2030 Target (AF/yr)	MWDOC 2019 Rate (\$1050/AF) <sup>2</sup>	Penalty (\$2000/AF/yr penalty)
Aliso Creek Ocean Outfall	2.96	1080.40	540.20	1658.41	\$1,741,335	\$3,316,828.0
Aliso Creek Ocean Outfall	2.60	949.00	474.50	1456.72	\$1,529,551	\$2,913,430.0
Aliso Creek Ocean Outfall	3.15	1149.75	574.88	1764.87	\$1,853,110	\$3,529,732.5
Aliso Creek Ocean Outfall	2.15	784.75	392.38	1204.59	\$1,264,821	\$2,409,182.5
San Juan Creek Ocean Outfall	2.99	1091.35	545.68	1675.22	\$1,758,983	\$3,350,444.5
San Juan Creek Ocean Outfall	0.84	306.60	153.30	470.63	\$494,163	\$941,262.0
San Juan Creek Ocean Outfall	3.02	1102.30	55 <b>1.1</b> 5	1692.03	\$1,776,632	\$3,384,061.0
San Juan Creek Ocean Outfall	7.84	2861.60	1430.80	4392.56	\$4,612,184	\$8,785,112.0
	Ocean Outfall  Aliso Creek Ocean Outfall  Aliso Creek Ocean Outfall  Aliso Creek Ocean Outfall  Aliso Creek Ocean Outfall  San Juan Creek Ocean  Outfall  San Juan Creek Ocean  Outfall  San Juan Creek Ocean  Outfall  San Juan Creek Ocean  Outfall  San Juan Creek Ocean	Effluent   Baseline <sup>1</sup>   Flow (mgd)	Effluent   Baseline   Annual Flow (mg/yr)	Effluent   Baseline   Annual Flow   Target   (mg/yr)     Aliso Creek Ocean Outfall   2.96   1080.40   540.20     Aliso Creek Ocean Outfall   2.60   949.00   474.50     Aliso Creek Ocean Outfall   3.15   1149.75   574.88     Aliso Creek Ocean Outfall   2.15   784.75   392.38     San Juan Creek Ocean Outfall   2.99   1091.35   545.68     San Juan Creek Ocean Outfall   0.84   306.60   153.30     San Juan Creek Ocean Outfall   3.02   1102.30   551.15     San Juan Creek Ocean Outfall   3.02   1102.30   551.15	Effluent   Baseline   Annual Flow   (mg/yr)   (mg/yr)   (AF/yr)     Aliso Creek Ocean Outfall   2.96   1080.40   540.20   1658.41     Aliso Creek Ocean Outfall   2.60   949.00   474.50   1456.72     Aliso Creek Ocean Outfall   3.15   1149.75   574.88   1764.87     Aliso Creek Ocean Outfall   2.15   784.75   392.38   1204.59     San Juan Creek Ocean Outfall   2.99   1091.35   545.68   1675.22     San Juan Creek Ocean Outfall   0.84   306.60   153.30   470.63     San Juan Creek Ocean Outfall   3.02   1102.30   551.15   1692.03     San Juan Creek Ocean Outfall   3.02   1102.30   551.15   1692.03     San Juan Creek Ocean Outfall   3.02   1102.30   551.15   1692.03     San Juan Creek Ocean Outfall   3.02   1102.30   551.15   1692.03     San Juan Creek Ocean Outfall   3.02   1102.30   551.15   1692.03     San Juan Creek Ocean Outfall   3.02   1102.30   551.15   1692.03     San Juan Creek Ocean Outfall   3.02   1102.30   551.15   1692.03     San Juan Creek Ocean Outfall   3.02   1102.30   551.15   1692.03     San Juan Creek Ocean Outfall   3.02   1102.30   551.15   1692.03     San Juan Creek Ocean Outfall   3.02   1102.30   551.15   1692.03     San Juan Creek Ocean Outfall   3.02   1102.30   551.15   1692.03     San Juan Creek Ocean Outfall   3.02   1102.30   551.15   1692.03	Baseline

#### Footnotes

SB 332 Proposed Language: "The bill would require each wastewater treatment facility that discharges through an ocean outfall and affiliated water suppliers to reduce the facility's annual flow as compared to the average annual wastewater discharge baseline volume, as prescribed, by at least 50% on or before January 1, 2030, and by at least 95% on or before January 1, 2040. The bill would subject the owner or operator of a wastewater treatment facility, as well as the affiliated water suppliers, to a civil penalty of \$2,000 per acre-foot of water above the required reduction in overall volume discharge for the failure to meet these deadlines."

Analysis by: Amber Baylor, SOCWA

#### Recommendation

Information item.

Baseline flow was calculated based on SB 332 language which is 2010-2020 but there is not sufficient data for baseline calculation. SOCWA baseline is 2010-1 2018 (internal database). The other R9 facilities start in 2011 due to historical data obtained from the California Integrated Water Quality System (CIWQS) began in 2011. Exceptions to extracted data time frames provided in footnotes where appropriate.

The Municipal Water District of Orange County (MWDOC) is a wholesale water agency. Cost per acre foot for 2019 included as a comparison to potential revenue from recycled water supplies (not including cost to expand distribution).



South Orange County Wastewater Authority

March 25, 2019

The Honorable Ben Allen, Chair Senate Environmental Quality Committee State Capitol, Room 2205 Sacramento, CA 95814

RE: SB 332 (Hertzberg & Wiener): Oppose

Dear Senator Allen:

The South Orange County Wastewater Authority (SOCWA) is writing to respectfully state our opposition to SB 332 (Hertzberg & Wiener). As introduced, SB 332 would require wastewater treatment agencies that discharge treated effluent to saline waters, oceans, bays and estuaries to reduce their discharges by 50% by January 1, 2030, and by 95% by January 1, 2040. The bill would also declare that discharge from ocean outfalls is a "waste and unreasonable use" of water and impose penalties of \$2,000/acre-foot of water discharged above the reduction requirement.

SOCWA supports the goal of maximizing recycled water for beneficial reuse in California. In fact, our agency already engages in water recycling and produces approximately 15,000 acre-feet of recycled water used for irrigation to offset potable water demand.

We believe that while the goal of increasing water recycling in California is laudable, a mandate on every ocean and bay discharger in the state is simply unworkable. The regional variations in demand, coupled with vastly different recharge and reuse options pose significant challenges for all agencies to meet the proposed discharge reductions in SB 332.

Our initial estimate is that implementing the mandate in SB 332 is estimated to cost our agency approximately \$160M to comply. That cost burden would inevitably be shifted to our member agencies, through necessary rate increases, and those rate impacts to individual households and businesses in our community would be substantial.

For these reasons, SOCWA must respectfully oppose SB 332. Thank you for your consideration of our concerns.

Sincerely,

Betty Burnett General Manager SOCWA

B. Burnet

34156 Del Obispo Street · Dana Point, CA 92629 · Phone: (949) 234-5400 · Fax: (949) 489-0130 · Website: www.socwa.com



South Orange County Wastewater Authority

CC: Gabrielle Meindl, Chief Consultant, Senate Environmental Quality Committee Mimi Holtkamp, Committee Secretary, Senate Environmental Quality Committee (via <a href="mimi.holtkamp@sen.ca.gov">mimi.holtkamp@sen.ca.gov</a>)

Jessica Gauger, California Association of Sanitation Agencies (via

<u>igauger@casaweb.org</u>) Senator Pat Bates

Assembly Member Bill Borough

**Legal Counsel Review:** No **Meeting Date:** April 4, 2019

TO: SOCWA Board of Directors

FROM: Betty Burnett, General Manager

**SUBJECT:** General Manager's Status Report

#### Administration/General

#### <u>Update on FY 2019-2020 Budget Preparation</u>

The Finance Committee met on March 26, 2019, to kick off the fiscal year budget preparations for 2019-2020.

Staff presented information on the key budget assumptions including employee costs, fringe rate projections, PERS normal and unfunded costs and investment projections to manage growth in long term costs. Also discussed were projections for group insurance, performance of the fringe rate year-to-date, succession plan outcomes and staff planning, legal expenditures, utility cost distributions (outcome of the Carollo report), capital funding policy, general fund allocations and forward budget preparation schedules. The Finance Committee will meet next on April 9, and again on April 23 for presentations on the draft O&M, Environmental and Safety Budgets and for discussion of General Fund, Administration and Non-Capital Engineering Costs. The Committee requested consideration of options for funding unfunded obligations, consideration of a possible internship program, presentation of discussions on fixed versus variable sharing of outfall (PC 5 and 24) costs, potential for adding inspection and project management to SOCWA staff resources. The meeting schedule for the budget is below. Please note and calendar May 23, 2019, for the Board Budget Workshop.

- Finance Committee Special Meetings
  - March 26, 2019 Budget Development Kick Off
  - April 9, 2019 O&M Environmental Safety Budget Presentation; Member Comments from 3/26/19
  - April 23, 2019 General Fund Budget, Administration and Capital Budget, Member Comments to prior
  - May 7, 2019 Committee Discussion/Direction
  - May 21, 2019 Committee Discussion/Direction
- Board Workshop May 23, 2019
  - June 4, 2019 Budget Consideration for Approval

#### CWEA SARBS Recognition of SOCWA Employees

On March 16, 2019, SOCWA staff attended the CWEA/SARBS Awards Banquet where the Santa Ana River Basin Section of CWEA recognized three SOCWA employees for excellence in their fields, including:

- Laura Miller: Laboratory Technician 1<sup>st</sup>, Place.
- Gage Gesiriech: Maintenance Mechanic Technician 2<sup>nd</sup>, Place.
- Kris Luce: Electrical Instrumentation Technician 2<sup>nd</sup>, Place.

A first-place award at SARBS qualifies Laura Miller to participate in the State level CWEA awards later this year.

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Gage Gesiriech



Kris Luce

#### HR1764 Update

CASA's Federal Legislative Committee presented information to the House of Representatives Committee on Transportation and Infrastructure at a hearing held on February 7, 2019, to discuss the needs of the Nation's infrastructure. CASA requests included a call for stability in SRF funding and a transition for California back to a more representative share of available funding. A request was also made to support extension of NPDES permit terms for up to 10 years. CASA has been working these issues in Washington D.C. for several years. On March 14, 2019, Congressmen John Garamendi (D-CA) and Ken Calvert (R-CA) introduced H.R. 1764 which "would extend the maximum term for National Pollutant Discharge Elimination System (NPDES) permits issued under the federal Clean Water Act from 5 to 10 years." This Bill would result in permit renewal cost savings to the members of both PC5 and PC24. Staff will track progress through CASA's Federal Legislative Committee for this legislation. The bill is referred first to the House Transportation and Infrastructure Subcommittee on Water Resources and the Environment.

#### **Operations & Maintenance Department Updates**

#### **O&M Projects**

#### JB Latham Treatment Effluent Motor Replacement

Below is a picture of staff removing a failed motor at the effluent pumping station at the JB Latham Treatment Plant. The motor was beyond its expected life and the heavy rains this year caused the motor to fail.



#### CTP Access Road Cleanup Continues

Staff has been cleaning the Coastal Treatment Plant access road storm drains and addressing other related storm damage. Below is a picture of staff replacing a speed limit sign that was washout out along the CTP access road. Staff also hired a street sweeper to remove the debris that littered the road after the storms.



#### SCWD's CTP Forcemain Lining Project Update

SCWD has started its project to line its forcemain that feeds the Coastal Treatment Plant. SOCWA staff have been working with SCWD staff to place bypass pipes and areas to stage construction equipment. Below is a picture of the bypass line on the ground in the Headworks of the plant.



#### Polymer Contract Renewal Update

Staff is reviewing the initial proposals from potential Polymer providers. The next phase of the project is to allow vendors to conduct a 2-day trial of their product at the plants. This will allow the vendors to refine their proposals. The refined proposals will be reviewed by staff to select a vendor that will be allowed to perform a 30-day trial to prove their product claims. SOCWA staff will recommend a vendor to the Board after this proving period is over. It is anticipated that a contract award will be presented to the Board in June.

#### **Environmental Compliance Department Updates**

#### ELAP Update

On March 26, 2019, the California Quality Management System (CA QMS) subcommittee of the Environmental Laboratory Technical Accreditation Committee (ELTAC) met to review the final version of the CA QMS in preparation for the formal recommendation to ELTAC on April 19, 2019. The CA QMS is proposing a standard that is more administratively efficient than the current standard proposed by ELAP while producing data that is reliable and reproducible and within the framework that ELAP is requesting. Representatives of the subcommittee include Orange County Sanitation District, Los Angeles County Sanitation District, Coachella Valley, City of Davis, City of Vacaville, & SOCWA. The CA QMS would avoid the need for SOCWA to hire another person to be compliant with the proposed regulation.

#### Biochar Update

SOCWA is continuing to engage with CASA on a demonstration site for the Wood Innovation Grant. CASA received the grant from the U.S. Forest Service and has been working with scientists in California and Colorado to determine the viability of using treated dead biomass from Northern California, due to bark beetle infestation, as granular activated carbon media for hydrogen sulfide and siloxane removal in the gas cleaning skids at the Regional Treatment Plant and the JB Latham Treatment Plant. Demonstration sites could receive the materials late April 2019 through Summer of 2019. The test locations are Los Angeles County Sanitation Districts, Delta Diablo, South Lake Tahoe Public Utilities District, and SOCWA.

#### CASA Regulatory Workgroup

The CASA Regulatory Workgroup (RWG) meets on an annual basis to discuss strategy items to guide coordinated efforts for the water and land sub-groups. This annual strategy session includes the Summit Partners:

CASA, the Southern California Association of POTWs (SCAP)
California Water Environment Association (CWEA)
Bay Area Clean Water Association (BACWA)
Central Valley Clean Water Association.

Amber Baylor is the co-chair of the RWG.

The top regulatory priorities for the water sub-group are:

Toxicity
Biostimulatory/Biointegrity
Perfluorakyl Substances/Perflurooctanesulfonic Acid (PFAS/PFOA)
Exfiltration

The top priorities for the land sub-group are:

SB 1383 Short-Lived Climate Pollutants Implementation

Transportation Fuel Credits for Biogas

Kern County Post Litigation Follow up Actions - EIR Development and Implementation

EPA – Office of Inspector General's Report Response

Fire Reclamation Funding

There were several issues that the water and land committees identified as important for both groups to coordinate activities on:

Constituents of Emerging Concern (PFAS/PFOA)

Microplastics

AB 617 Implementation

Amber Baylor, SOCWA's Director of Environmental Compliance, will continue her active leadership at CASA Regulatory Working Group.



# SA CALIFORNIA ASSOCIATION of SANITATION AGENCIES

1225 8th Street, Suite 595 Sacramento, CA 95814 TEL: (916) 446-0388 www.CASAweb.org

February 7, 2019

The Honorable Peter DeFazio Chairman Committee on Transportation & Infrastructure U.S. House of Representatives Washington, D.C. 20515

The Honorable Grace P. Napolitano Chairwoman Transportation & Infrastructure U.S. House of Representatives Washington, D.C. 20515

The Honorable Sam Graves Ranking Member Committee on Transportation & Infrastructure U.S. House of Representatives Washington, D.C. 20515

The Honorable Bruce Westerman Ranking Member Subcommittee on Water Resources and Environment Subcommittee on Water Resources and Committee on Environment U.S. House of Representatives Washington, D.C. 20515

Dear Chairs and Ranking Members:

The California Association of Sanitation Agencies (CASA), provides the following statement as you conduct your February 7, 2019 hearing on "The Cost of Doing Nothing: Why Investing in Our Nation's Infrastructure Cannot Wait". We request that this statement be made a part of the formal record of the committee proceedings.

CASA strongly supports your priority to advance infrastructure legislation without delay. For too many years, our nation's wastewater infrastructure needs have gone unaddressed and have reached levels that urgently demand a robust federal commitment to support local community needs. The U.S. Environmental Protection Agency's (USEPA) 2012 Clean Water Survey of Needs revealed a \$26 billion investment gap in California alone for federally eligible projects. From a national perspective, the American Society of Civil Engineers' infrastructure report card gave wastewater infrastructure a D+ grade. The report noted that over the next two decades more than 56 million additional users will be making demands on this aging and under-capacity infrastructure. USEPA, by its own analysis, has concluded that \$271 billion in wastewater investments will be required to address future demands and construct required water quality infrastructure. This data illustrates the absolute necessity of incorporating wastewater infrastructure in any federal infrastructure initiative. Without such commitment, the ability to protect public health and improve our ecosystems will be seriously compromised. CASA believes that any infrastructure package should include, at a minimum, the following elements:

First, we ask Congress to recommit robust levels of federal funding for the existing wastewater infrastructure funding programs. CASA strongly supports the Clean Water State Revolving Fund (SRF) Loan Program, Water Infrastructure Financing and Innovation Act (WIFIA) Program and other programs to provide federal funds for clean water infrastructure projects. The Clean Water SRF should be authorized at \$6 billion annually. This level would represent a nearly six-fold increase in the annual spending levels of recent years. However, this increased amount is absolutely vital for states and localities to begin addressing the significant needs that exist today, ranging from traditional treatment requirements to those challenges created by climate change, including drought, severe storm events and sea level rise.

Committee on Transportation & Infrastructure February 7, 2019 Page 2 of 5

Second, we request that the National Pollutant Discharge Elimination System (NPDES) permit terms be extended from five to up to ten years. In addition to the need for financial assistance, there are other ways to stretch limited public dollars while protecting the public's health. Extending the length of NPDES permit terms up to 10 years is one important mechanism for ensuring that our limited dollars are spent wisely. This change would significantly benefit local public agencies by allowing for enhanced planning and efficient permitting of facilities and give agencies the time needed to comply with existing regulatory requirements before the imposition of new mandates. This would also better reflect the technological and administrative realities of the modern era. USEPA and delegated states would retain their existing authority to reopen permits to address changed circumstances.

Third, we request that Congress avoid inclusion of consolidation or reorganization of local wastewater agencies as a criterion for federal funding assistance or ranking projects for funding. The impetus for consolidation and reorganization of local agencies is fact and site specific and must consider the purpose for which the agencies were formed and the roles they serve in the community. CASA believes that decisions to consolidate are best left to the communities that will be impacted and local governance processes designed to drive and guide such changes. In California, a comprehensive process to consider consolidation already exists, and we believe that this structure could be jeopardized by a top down approach that would determine eligibility for federal assistance.

Fourth, we ask that Congress to consider updating the allocation formula that USEPA relies upon to provide states with capitalization grants for their Clean Water SRFs in order to better reflect today's realities. The formula has not been updated since 1987 and has not kept pace with demographic shifts in the United States towards the West and South. While California currently receives 7.2% of federal SRF capitalization grants, the state is home to 12% of the nation's population. According to a USEPA report, California would be entitled to between 15 and 24 percent of appropriated assistance if the formula were to be updated to address population and needs. The Committee received USEPA's Report to Congress: Review of the Allotment of the Clean Water State Revolving Fund (May 2016), documenting the challenges created by the antiquated formula used to allocate SRF resources to states. The opportunity to update this formula to reflect current population and water quality needs of a state would ensure the delivery of federal resources to those areas most in need.

Fifth, CASA urges the committee to resist creating new set-asides within the SRF program. If a compelling need exists, such as support for disadvantaged communities, a program should be created to address such needs through alternative mechanisms and avoid reducing the purchasing power of the Clean Water SRF that is already oversubscribed.

#### Water and Wastewater Infrastructure Assistance: Adequate and Reliable Federal Funding is Essential

CASA supports a robust infrastructure funding partnership between the federal government and local communities to protect the integrity of our receiving waters, deliver safe and reliable drinking water and enhance our ecosystems. We recognize and thank the Committee for its decades of support of the SRF Program. From its inception, the SRF program has proven to be an effective and efficient means to help meet the significant needs of local communities.

In California, the SRF programs provide vital support for a variety of water infrastructure needs. We have used the programs to support core water quality treatment functions, develop recycled water capacity, build resilient water supplies and capture sustainable energy from treatment processes. During the most recent stretch of extraordinary drought conditions, the SRF served as a lifeline to construct water recycling facilities and other critical infrastructure. Without these funds, the impact of the already devastating drought would have been significantly more severe.

California, along with much of the nation, faces deteriorating infrastructure, increased regulatory compliance costs, unpredictable weather conditions and general population growth. At the same time, financial support has declined

Committee on Transportation & Infrastructure February 7, 2019
Page 3 of 5

for the key federal partnership offering direct assistance through the SRF programs, which CASA agencies have relied on for decades. As noted above, in California alone, estimates show a \$26 billion need for new wastewater infrastructure over the next twenty years. This figure is in addition to the funding required to continue operation and maintenance of existing facilities and programs.

CASA believes that the SRF program should continue to serve as the backbone of water and wastewater infrastructure financing at the state level and calls upon Congress to provide the programs with increased funding. The loan program provides the most important and effective infrastructure financing tool available today and should be viewed as an investment in the nation's health and its economy. Loan payments create the revolving aspect of the programs, meaning that outgoing monies come back to the states to be loaned again for additional projects. The SRF program is the engine that allows CASA member agencies to continue their mission of protecting human health and the environment.

CASA also appreciates the continued development and implementation of the WIFIA Program. Several of our members have submitted to USEPA full applications for qualifying projects and are eager to utilize this new water infrastructure financing tool. With its focus on large projects, WIFIA complements the SRF program, particularly as USEPA implements the new state finance authority focused WIFIA program. CASA looks forward to working with the committee to ensure that this new program is leveraged under any new infrastructure policy.

We also see an important role for direct grant assistance. In many cases, smaller communities or segments of a service area lack the resources necessary to secure loans. In these circumstances, we strongly encourage Congress to authorize grants for such communities and service areas to serve as a catalyst for long-term water quality improvements. The financial commitment through grant assistance is a significant component of maintaining public investment to improve public health and the environment.

#### The Clean Water SRF Allocation Formula, Unchanged Since 1987, Should be Updated

The Clean Water Act allocation formula determines the amount of SRF capitalization grant assistance provided to each state. The formula, which is based on a variety of factors including census population and capital needs, has not been updated since 1987. Meanwhile, the population in California and throughout the nation has dramatically changed. Additionally, water infrastructure needs have grown substantially beyond the levels identified in 1987.

As part of the Water Resources Reform and Development Act (WRRDA) of 2014, Congress directed the USEPA to conduct a study to examine the allocation formula and identify options to more accurately address current needs. In a May 2016 report (copy attached) "Review of the Allotment of the Clean Water State Revolving Fund (CWSRF): Report to Congress", the USEPA concluded, "most States do not currently receive appropriated funds in proportion to their reported needs or population, which demonstrates the inadequacy of the current allotment."

The Committee is commended for seeking the report, as it provides a data-driven analysis of the current formula's impacts on states, particularly how it disadvantages states where needs have grown since 1987. The report documents that the current 30-year-old allocation formula fails to equitably address the clean water infrastructure needs of today in an equitable state-by-state basis. Specifically, the current allocation formula fails to provide adequate funding assistance to the states based upon current water quality needs or population. For example, the report illustrated that SRF allocations to California should be significantly higher if they were based on a 2012 water quality needs survey. Alternatively, if 2010 population data was used, California's equitable share should also be significantly increased.

Committee on Transportation & Infrastructure February 7, 2019
Page 4 of 5

The report presented three options to more accurately gauge needs and set allotments for the states in the future. In each instance, California would gain significant allotment, increasing anywhere between 14.7% to 24.9%, all well over its current 7.3% allotment. These percentage changes were based on the 2012 needs survey and 2010 census data, while applying constraints on the maximum increase or decrease to states. CASA requests that Congress update the Clean Water SRF allocation formula to reflect the findings of the USEPA's May 2016 Report.

#### **Expanded Private Sector Access to the SRF Program Would be Counterproductive**

In the past, proposals have been made to allow for private sector use of Clean Water SRF resources. CASA strongly opposes any initiative to open access to the SRF programs to the private sector for several reasons. First, a source of tax-exempt financing for private sector needs already exists in the form of private activity bonds (PABs). Moreover, diluting the purchasing power of already oversubscribed programs designed for the delivery of "public works" is counterproductive. Public entities that rely on traditional public financing for water infrastructure cannot afford the diversion of limited resources to privatize systems that were constructed with public monies.

#### **Extension of NPDES Permit Terms**

The extension of NPDES permit terms from five to ten years is our top priority for any non-funding related infrastructure response. Congress has an opportunity to modernize the Clean Water Act permitting process to reflect the realities of today by making a straightforward change to this important environmental statute.

The Clean Water Act requires publicly owned treatment works to secure a new permit to discharge highly treated wastewater every five years. These relatively short permit terms were predicated on the priority for agencies to upgrade treatment facilities to secondary standards and conformed to technology lifecycles and infrastructure expectations of the era. More than 40 years later, water quality needs are increasingly complex and require new methods and technologies to support innovation in making water quality improvements.

The existing five-year renewal cycle results in unnecessary financial and technical burdens on local agencies and the state permitting authorities that must prepare and issue the permits. NPDES permits are becoming increasingly complex and restrictive, and the treatment technologies necessary to meet permit limits have become more expensive and time intensive to implement. As a result, many local public agencies have not completed the upgrades necessary to comply with their prior permit when they are faced with negotiating new terms and requirements. The five-year term, established in 1972, does not reflect the realities of addressing today's clean water challenges and restricts state and local flexibility to address the highest clean water priorities. Additionally, the short permit term does not encourage long-term thinking that is essential to implement innovative solutions that produce the greatest benefits.

Examples of the policy disconnect between the realities of today's water treatment needs and an antiquated five-year permitting cycle abound. Project construction timelines can extend more than a decade, as public agencies seek to implement very large clean water infrastructure projects that must meet extensive environmental, tribal, historical and antiquities reviews, not to mention considerations for labor agreements, project design, scheduling and technology acquisition. This means local agencies must expend time and money to prepare for permit renewals even as they try to comply with existing permit requirements. At the same time, state and federal permitting agencies devote an overwhelming amount of resources to the administrative reviews and approvals necessitated by a constant treadmill of permit applications. The work diverts limited resources away from more pressing issues, such as non-point sources and other water quality improvement programs. Further, the workload can create a permit backlog, leading to administrative extensions that are discouraged by the USEPA and lack certainty for the permitted entity and public alike.

Committee on Transportation & Infrastructure February 7, 2019 Page 5 of 5

Authority to provide up to ten-year permit terms would facilitate the effective use of limited water quality resources, allowing local agencies and permitting authorities to focus on and address today's water quality needs, which have moved beyond the traditional point sources that were the focus in 1972. This change would benefit local public agencies, states and the public. Local water and wastewater agencies would be afforded adequate time to comply with existing regulatory requirements before the imposition of new ones and could better plan and more efficiently construct new facilities using the latest technology. States could direct more resources to non-point sources and watershed-based solutions. Further, existing permit reopener provisions currently provided for by law would allow new conditions to be addressed in NPDES permits during the 10-year term, if necessary, to protect water quality.

In closing, CASA strongly endorses the Committee's commitment to develop a national infrastructure policy that will propel the nation to sustained economic growth and improved public health. We look forward to working with the Committee in the coming months on this important matter.

Sincerely yours,

Roberta L. Larson Executive Director

Roberta L Larson

Meeting Date: April 4, 2019

**TO:** Board of Directors

FROM: Betty Burnett, General Manager

**SUBJECT:** Monthly Progress Report on State Audit Recommendations

Attached are staff updates for the State Audit Response Schedule.

#### Recommendation

Information item.

# SOCWA State Audit Response Schedule

Filing Date	Filed on March 21, 2019 (Remaining Open Item – Consideration of Revision to SOCWA JPA to assign method/% of Member Agency Obligations for Unfunded Liabilities)	(a)To be completed: September, 2018 – Submitted to State 9/20/18 for 6 mo. compliance (b)(i)To be Completed: September, 2018 – FCM directed staff to provide alternative methods to allocate and to meet with Agency Finance Officers to review, meeting pending early October 2018 – completed. Board to review and determine final distribution option by 4/4/19. Completed. (ii) 2015-16 Cash Roll Forward was distributed to Board April, 2018; 2016-17 to be reviewed by Finance Committee May, 2018 – Done.
Preparation Schedule/Responsible Staff		(a) Prepare results of investigation report, and discuss with Finance Committee and Board (b)Cash Roll Forward results discussed Finance Committee and Board of Directors April, 2018  (i) Board to review by June, 2018  (ii) Procedures in Place
Supplemental Actions to Implement Recommendations		<ul> <li>(a) Complete investigation of differences in available cash balances to audited financial statements.</li> <li>(b) Develop a method that is agreeable to members for allocating additional cash to the credit of members: <ul> <li>(i) Consider allocating to members based on existing proportion to available cash</li> <li>(ii) Implement improved procedures to account for member cash</li> </ul> </li> </ul>
Recommendations	Annual Report to State Auditor on Progress	Finish Investigating difference in available cash balances per audited financial statements
Page		16

Next Page	Recommendation	Supplen	Supplements to Recommendation	Preparation/Schedule/ Responsible Staff	Filing Date
		(iii) Prov available	(iii) Provide Monthly reports of available cash balances to members	(iii) 12/6/18 Board adjusted	(iii)Complete '17-18 update and implement
				reporting of available cash to	quarterly updates 12/6/18; Fin Com
				Quarterly	reviewed Jan. 2019.
				Responsible: Finance Officer	Next review 5/′19.
19	SOCWA and Members	SOCWA shou	uld inform plan participants.	Begin consideration of JPA	To be Completed:
	should amend the			Revisions with assistance of	September, 2019. Plan
	current JPA to expressly			SOCWA Counsel by July, 2018	presented by Procopio to
	state whether members				SOCWA Executive
	will be responsible for			Submit to Agencies for	Committee on 12/6/18 for
	SOCWA retirement			approval, July, 2019	review and comment.
	benefits				ExCom directed proceeding
				Responsible: GM/SOCWA	with meeting of agency
				Counsel	attorneys to review –
					meeting held 2/14/18. Flow
					input from agencies
					requested 1/23/19, due
					2/28/19. Response from
					IRWD received. Agency
					Managers Meeting will be
					set on response from all
					agencies.
28	Develop and follow a	:	Prepare a policy requiring	(i) Counsel to develop by May	(i)Completed, reported to
	timeline with specific		correction of future internal	2018 Board meeting.	State Auditor 5/10/18
	deadlines for completing		control deficiencies within six	Responsible: GM/SOCWA	(ii) Procedures & Schedule
	each of its planned year-	_	months of identifying by	Counsel	for Year End to review with
	end tasks		external auditor	(ii)Underway. Responsible:	Finance Committee August,
		≔	Develop accounting procedures	Finance Controller	10 2018. Submitted to State
			including step-by-step	(iii) Counsel to develop by	Page 2
			IIIstruccions	May 2010 board meening.	

28 Cont.		iii	Amend policy on procurements	Responsible: GM/SOCWA	9/20/18 with 6-month
			to specify that SOCWA should	Counsel.	compliance update.
			enter into agreements of at	(iv) Counsel to develop by	Completed.
			least 5 years with competitively	May 2018 Board meeting.	(iii)and(iv) completed and
			procured external audit firms.	Responsible: GM/SOCWA	submitted to State Auditor
		. <u>`</u>	Adopt policy to rotate external	Counsel.	with initial 60-day
			auditor when state law		compliance 5/11/18.
			requires.		
34	Assure full compliance	(i)	Update policy on PRA at least	(i) April 2018 Board	(i) Adopted April 2018
	with the Public Records		annually to track any changes in	Meeting	Board Meeting
	Act		laws.	(ii) May 2018,	(ii) Pending (9/2018)
		( <u>ii</u> )	Develop more detailed procedures		_
			to ensure that SOCWA responds to	Training	
			requests for records in compliance	. Besnousiple.	(iv) Submitted to State
			with PRA.	responsible.	
		(11)	Establish a policy to retain	GM/SOCWA Counsel	Auditor with initial
		•	accurate records and supporting	(iii) April 2018 Board	60- day report on
			documentation to demonstrate	Meeting	5/10/18
			full compliance with all PRA		
			requirements.		
					9 e e e e e e e e e e e e e e e e e e e

Update April 2019