

I hereby certify that the following Agenda was posted at least 24 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 www.socwa.com.



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

AGENDA

*Special Meeting
of the
South Orange County Wastewater Authority
Board of Directors*

To Be Held by Teleconference on:
December 17, 2020
9:30 a.m.

MEMBERS OF THE PUBLIC ARE INVITED TO PARTICIPATE IN THIS TELECONFERENCE MEETING AND MAY JOIN THE MEETING VIA THE TELECONFERENCE PHONE NUMBER AND ENTER THE ID CODE. THIS IS A PHONE CALL MEETING AND NOT A WEB-CAST MEETING SO PLEASE REFER TO AGENDA MATERIALS AS POSTED ON THE WEBSITE AT WWW.SOCWA.COM. ON YOUR REQUEST, EVERY EFFORT WILL BE MADE TO ACCOMMODATE PARTICIPATION. IF YOU REQUIRE ANY SPECIAL DISABILITY RELATED ACCOMMODATIONS, PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SECRETARY'S OFFICE AT (949) 234-5452 AT LEAST **TWENTY-FOUR (24)** HOURS PRIOR TO THE SCHEDULED MEETING TO REQUEST DISABILITY RELATED ACCOMMODATIONS. THIS AGENDA CAN BE OBTAINED IN ALTERNATE FORMAT UPON REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S SECRETARY AT LEAST **TWENTY-FOUR (24)** 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 BY PHONE REQUEST MADE TO THE AUTHORITY ADMINISTRATIVE OFFICE AT 949-234-5452. THE AUTHORITY ADMINISTRATIVE OFFICES ARE LOCATED AT 34156 DEL OBISPO STREET, DANA POINT, CA ("AUTHORITY OFFICE"), BUT ARE NOT OPEN TO THE PUBLIC DURING THE PERIOD OF STAY AT HOME ORDERS. IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE BOARD OF DIRECTORS LESS THAN **TWENTY-FOUR (24)** HOURS PRIOR TO THE MEETING, THEY WILL BE SENT TO PARTICIPANTS REQUESTING VIA EMAIL DELIVERY. IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IMMEDIATELY ON VERBAL REQUEST TO BE DELIVERED VIA EMAIL TO REQUESTING PARTIES.

FOR MEETING PARTICIPATION:

OPEN SESSION TELECONFERENCE PHONE NUMBER: 213-279-1455
TELECONFERENCE ID: 756 431 547

1. CALL MEETING TO ORDER
2. PLEDGE OF ALLEGIANCE
3. ORAL COMMUNICATIONS

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 THE 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	1
• Board of Directors November 5, 2020	
ACTION The Board will be requested to approve subject Minutes.	
B. Minutes of Executive Committee Meeting	5
• Executive Committee November 10, 2020	
ACTION The Board will be requested to approve subject Minutes.	
C. Minutes of Finance Committee Meeting	8
1. Finance Committee August 25, 2020	
2. Finance Committee September 22, 2020	
3. Finance Committee October 27, 2020	
ACTION The Board will be requested to receive and file subject Minutes.	
D. Minutes of Engineering Committee Meeting	17
1. Engineering Committee September 17, 2020	
2. Engineering Committee October 8, 2020	
ACTION The Board will be requested to receive and file subject Minutes.	
E. Comprehensive Annual Financial Report (CAFR) for the Fiscal Years ended June 30, 2020, and 2019, including (separate attachment).....	26
• Independent Auditors Report	
ACTION: The Finance Committee recommends to the Board of Directors to receive and file the Comprehensive Annual Financial Report (CAFR) including the Independent Auditors Report for Fiscal Year ended June 30, 2020, and 2019.	
F. Fiscal Year 2019-20 Supplemental Financial Statements	28
ACTION: The Finance Committee recommends to the Board of Directors to receive and file the Supplemental Financial Statements and Management Discussion and Analysis for the Year Ended June 30, 2020.	
G. October 2020 Operations Reports	47
1. Monthly Operational Report	
2. SOCWA Ocean Outfall Discharges by Agency	
3. Beach Ocean Monitoring Report	
4. Recycled Water Report	
5. Pretreatment Report	
ACTION: The Board will be requested to receive and file the October 2020 Operations Reports as submitted.	

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H. Capital Improvement Program Status Report87

ACTION: The Board will be requested to receive the reports as submitted.

I. Capital Improvement Program Project Financial Status and Change Orders
[Project Committee 2, 15, & 17].....101

ACTIONS: The Engineering Committee recommends:

1. The PC-2 Board to approve Change Orders 10 and 15 totaling \$187,929; and
2. The PC-15 Board to approve Change Orders 11 through 13 totaling \$28,210.

5. ENGINEERING MATTERS

A. Coastal Treatment Plant Sludge Force Main Replacement Project Construction Bids
[Project Committee 15]113

ACTION: The Engineering Committee recommends to the PC 15 Board to authorize the General Manager to enter into a construction contract with JR Filanc for the Coastal Treatment Plant Sludge Forcemain Project in the amount of \$3,107,346, and the PC 15 Board approves a project contingency of \$248,588 for the Project.

B. Coastal Treatment Plant Sludge Force Main Replacement Project Cultural
Monitoring Services During Construction [Project Committee 15]116

ACTION: The Engineering Committee recommends to the PC-15 Board to authorize the General Manager to enter into a time and materials contract with PSOMAS in the amount of \$277,368 for the Archeological, Paleontological, and Native American monitoring services during construction for the Coast Treatment Plant Sludge Force Main Project.

C. Coastal Treatment Plant Sludge Force Main Replacement Project Engineering and
Biological Services During Construction [Project Committee 15]120

ACTION: The Engineering Committee recommends to the PC-15 Board to authorize the General Manager to enter into a time and materials contract with Dudek in the amount of \$387,750 for the engineering and biological services during construction for the Coastal Treatment Plant Sludge Force Main Project.

D. San Juan Creek Ocean Outfall Junction Structure Rehabilitation Project
[Project Committee 5]123

ACTION: The Engineering Committee recommends to the PC-5 Board to authorize the General Manager to enter into a contract with Dudek in the amount of \$89,668 for the biological monitoring services during construction for the SJCOO Junction Structure Rehabilitation Project.

6. GENERAL MANAGER’S REPORTS

A. Coastal Treatment Plant Flooring Recoating Project125

ACTION: Staff recommends to the Board to authorize the General Manager to enter into a construction contract with Oakridge Industries in the amount of \$57,460 for the Coastal Treatment Plant Flooring Recoating Project.

B. Small Capital Hydrogritter Purchases from Flow Systems127

ACTION: Staff recommends to the Board to authorize the General Manager to purchase three (3) hydrogritters at a cost of \$261,781.85 including additional shipping costs that will be determined at the time the units are shipped and to distribute costs as recommended herein.

C. General Manager’s Status Report130

ACTION: Information Item

7. OTHER MATTERS

Open discussion or items received too late to be agendaized.

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.

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

ADJOURNMENT

THE NEXT SOCWA BOARD MEETING
FEBRUARY 4, 2021

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

DRAFT

Board of Directors

November 5, 2020

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors Meeting was held on November 5, 2020, at 8:30 a.m. from their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Board of Directors were present via Teams Meeting:

DENNIS ERDMAN	South Coast Water District	Director
MATT COLLINGS	Moulton Niguel Water District	Director
DAN FERONS	Santa Margarita Water District	Director
TONI ISEMAN	City of Laguna Beach	Director
KATHRYN FRESHLEY	El Toro Water District	Director
STEPHEN DOPUDJA	Trabuco Canyon Water District	Director
MIKE DUNBAR	Emerald Bay Service District	Director
DOUG REINHART	Irvine Ranch Water District	Director

Absent:

DAVE REBENS DORF	City of San Clemente	Director
TROY BOURNE	City of San Juan Capistrano	Director

Staff Present:

BETTY BURNETT	General Manager
JIM BURROR	Director of Operations
MARY CAREY	Finance Controller
JASON MANNING	Director of Engineering
AMBER BAYLOR	Director of Environmental Compliance
DANIEL VASQUEZ	Chief Mechanic
KATIE GREENWOOD	Source Control Manager
RONI GRANT	Associate Engineer
DINA ASH	Human Resource Administrator
KONSTANTIN SHILKOV	Senior Accountant
ANNA SUTHERLAND	Accounts Payable
JEANETTE COTINOLA	Procurement/Contracts Administrator
DANITA HIRSH	Executive Assistant

Also Present:

ROBB GRANTHAM	Santa Margarita Water District
ADRIANA OCHOA	Procopio Law Firm
MIKE GASKINS	El Toro Water District
DENNIS CAFFERTY	El Toro Water District
JASON HAYDEN	El Toro Water District
TREVOR AGRELIUS	Moulton Niguel Water District
DON FROELICH	Moulton Niguel Water District

1. CALL TO ORDER

Chairperson Erdman called the meeting to order at 8:38 a.m.

2. PLEDGE OF ALLEGIANCE – Director Dan Ferons

3. ORAL COMMUNICATIONS

Director Reinhart reported that Director Ray Miller was in the hospital and asked that everyone keeps him in their thoughts and prayers.

4. CONSENT CALENDAR

ACTION TAKEN

Motion was made by Director Dunbar and seconded by Director Freshley to approve the Consent Calendar as submitted.

Motion carried: Aye 8, Nay 0, Abstained 0, Absent 2

Director Dunbar	Aye
Director Freshley	Aye
Director Dopudja	Aye
Director Collings	Aye
Director Reinhart	Aye
Director Iseman	Aye
Director Ferons	Aye
Director Erdman	Aye
Director Bourne	Absent
Director Rebensdorf	Absent

5. FINANCIAL MATTERS

- A. 1. Draft Use Audit FY 2019-20 Budget vs. Actual including Cash Roll Forward as of June 30, 2020

ACTION TAKEN

Motion was made by Director Freshley and seconded by Director Collings to approve the FY 2019-20 Use Audit and collection from and payments to SOCWA member agencies consistent with the results of the Use Audit as presented.

Motion carried: Aye 8, Nay 0, Abstained 0, Absent 2

Director Dunbar	Aye
Director Freshley	Aye
Director Dopudja	Aye
Director Collings	Aye
Director Reinhart	Aye
Director Iseman	Aye
Director Ferons	Aye
Director Erdman	Aye
Director Bourne	Absent
Director Rebensdorf	Absent

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Freshley to receive and file the Cash Roll Forward as of June 30, 2020.

Motion carried: Aye 8, Nay 0, Abstained 0, Absent 2
 Director Dunbar Aye
 Director Freshley Aye
 Director Dopudja Aye
 Director Collings Aye
 Director Reinhart Aye
 Director Iseman Aye
 Director Ferons Aye
 Director Erdman Aye
 Director Bourne Absent
 Director Rebensdorf Absent

B. Q1 FY2020-21 Cash Roll Forward as of September 30, 2020

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Freshley receive and file the Q1 Fiscal Year 2020-21 Cash Roll Forward as submitted.

Motion carried: Aye 8, Nay 0, Abstained 0, Absent 2
 Director Dunbar Aye
 Director Freshley Aye
 Director Dopudja Aye
 Director Collings Aye
 Director Reinhart Aye
 Director Iseman Aye
 Director Ferons Aye
 Director Erdman Aye
 Director Bourne Absent
 Director Rebensdorf Absent

6. ENGINEERING MATTERS

A. Aliso Creek Air Valve Replacement Update [PC-21]

ACTION TAKEN

Motion was made by Director Freshley and seconded by Director Collings to approve the award of the Aliso Creek Effluent Transmission Main Design contract to Tetra Tech for \$79,800.

Motion carried: Aye 3, Nay 0, Abstained 0, Absent 0
 Director Freshley Aye
 Director Collings Aye
 Director Reinhart Aye

B. San Juan Creek Ocean Outfall Junction Structure Rehabilitation Project [PC-5]

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Erdman to award the amendment to Filanc contract in the amount of \$916,164 for the Phase II construction work for a total contract amount of \$1,041,572.

Motion carried:	Aye 3, Nay 0, Abstained 0, Absent 2
Director Collings	Aye
Director Ferons	Aye
Director Erdman	Aye
Director Bourne	Absent
Director Rebensdorf	Absent

7. GENERAL MANAGER’S REPORTS

A. PC-12 Budget Adjustments

Due to conflicts of interests, Director Dopudja abstained for voting on this agenda item.

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Collings to approve PC-12 budget adjustments for \$181,000 for the 2020 SNMP Update, and \$30,000 for the HF183 Research Update.

Motion carried:	Aye 3, Nay 0, Abstained 1, Absent 1
Director Dopudja	Abstain
Director Collings	Aye
Director Ferons	Aye
Director Erdman	Aye
Director Bourne	Absent

B. Regulatory Initiatives and Science Related Update

Ms. Baylor gave a PowerPoint presentation on her work efforts associated with the development of various regulatory entities that SOCWA has been tracking, and that may have budgetary impacts based on scientific or regulatory drivers. An open discussion ensued.

Director Ferons reported that he’s been working with his District and the San Juan Basin Authority and had received a request from Clean Water Now (CNW) to look a creating a science panel to address some of the regulatory concerns. He noted that he would like to volunteer Santa Margarita by taking the lead on set up a meeting of interested agencies including SOCWA to start comparing notes and begin discussions on the importance of the issues. An open discussion ensued.

Director Collings, and Mr. Gaskin noted interested in participating on the science panel when it is developed.

This was an information item; no action was taken.

ADJOURNMENT

There being no further business, Director Erdman adjourned the meeting at 10:15 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 November 5, 2020 and approved 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**

DRAFT

Executive Committee

November 10, 2020

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors Executive Committee Meeting was held on November 10, 2020, at 9:00 a.m. via teleconference. The following members of the Executive Committee were present:

DENNIS ERDMAN	South Coast Water District
MATT COLLINGS	Moulton Niguel Water District
DAN FERONS	Santa Margarita Water District
STEPHEN DOPUDJA	Trabuco Canyon Water District

Staff Present:

BETTY BURNETT	General Manager
DANITA HIRSH	Executive Assistant

1. Call Meeting to Order

Chairman Erdman called the meeting to order at 9:00 a.m.

Board Chair Dennis Erdman opened the meeting at 9:03 and Ms. Hirsh noted the representatives in attendance: Matt Collings for Moulton Niguel Water District, Stephen Dopudja for Trabuco Canyon Water District and Dan Ferons for Santa Margarita Water District. Ms. Burnett was in attendance as was Danita Hirsh to record the meeting.

2. Public Comments

None.

3. General Manager Ongoing and Future Projects Update

Ms. Burnett introduced the meeting agenda, including:

- Topics for Update include:
 - Capital cash on hand and capital cash return (presented Nov. 6 meeting)
 - Agency review of reports related to same agency (completed/ongoing)
 - Capital projects progress (up to date and ongoing)
 - JPA Revisions (update given Nov. 6 meeting)
 - FE Nxt (Financial Edge) Upgrade (completed)
- Additional for Discussion
 - JPA Update Policy Driven Terms
 - FY 2020-2021 Budget
 - SOCWA staffing needs
 - Administration
 - Environmental Compliance
 - Progress toward UAL Funding Plan

Chairman Erdman inquired of the attending representatives as to items of interest to them for the meeting. Discussion ensued.

Director Collings inquired of Ms. Burnett as to the response of the agencies to the presentations of staff on the capital cash roll forward and spending down of capital cash noting that the progress is positive. Ms. Burnett noted the agencies seem to be generally appreciating the additional information being provided and the progress on the capital program with better alignment to lower the amount of capital cash being held by SOCWA.

Director Dopudja inquired as to the schedule for the consideration of the request by Irvine Ranch Water District to withdraw from SOCWA governance participation. Director Ferons noted that the agency is looking for a decision by July 1, 2021 and noted that the matter of San Juan Capistrano transition into Santa Margarita Water District would have a similar schedule.

Ms. Burnett noted the schedule the Procopio Firm has for the JPA agreement revisions effort is to hold a meeting in the January 2021 time period.

Director Erdman inquired as to the timelines to bring planned capital work forward for funding and construction noting the many years the JBL Junction Structure Project was on the books. The group was in general concurrence that funding for large and small capital work has been consistently provided by the Board for needed projects since the 2014 timeframe. Ms. Burnett noted that the capital budget preparation at the SOCWA Engineering Committee would start on schedule in the February 2021 timeframe.

Director Erdman expressed interest in the FE NXT conversion and Ms. Burnett noted the work was completed successfully. Director Erdman also expressed interest in undertaking any recommended facility inspections such as for the PC 21 transmission main. He referenced South Coast Water District's success in using Pure Tech for pipeline inspections.

A discussion ensued regarding SOCWA standards and targets for capital and maintenance programs. Director Erdman queried the directors as to the benefits of set quality targets for facilities work. Director Ferons noted that SOCWA and wastewater agencies have standards dictated by discharge permit compliance requirements and by understanding the life cycle of assets. He noted that asset predicted life is evaluated against information from field assessments but hard standards for wastewater assets may not always provide the best result. He noted that some of the equipment at a treatment plant will outlast what is expected and other items may not perform as well as hoped. He noted that flexibility in consideration of condition, expected life and available resources in an annual evaluation cycle can lead to a good result. Care must always be taken in making decisions because the agency must determine how best to spend money provided by the public. Ms. Burnett noted this is generally the approach SOCWA has used. Director Collings noted that in the recent timeframe SOCWA is being funded for what is needed and the balance is being struck between member agency needs and SOCWA needs through collaborative discussion. As an example, he noted the most recent effort at MNWD to consider advanced treatment with GEI and the work done with SOCWA Director of Operations, Jim Burror, to determine which AWT repairs could wait and which had to be done. Director Dopudja noted that in asset management adaptability is important. Often definitive reports may not work to set the overall best result for asset management. In his view, SOCWA is heading in the right direction. Director Erdman encouraged the SOCWA staff to continue to work with the Effective Utility Management concepts and learn from them and noted his agreement that SOCWA remain adaptive to changing conditions. Director Erdman commented as to the benefits of having a

long-term view to communicate that SOCWA is engaged in a worthwhile endeavor. He sees value in establishing what SOCWA is about and where it is headed.

Director Collings commented that MNWD works through its water reliability long range planning with adaptive water policy reliability goals. He noted that in practice staff seeks to avoid overstating goals that would drive financial requirements that may not be sustainable and referred to the staff effort to strike the right balance. He noted that he did not see at SOCWA a misalignment between the board and staff on prioritizing needs.

Director Erdman suggested to the group a value in a long-term future vision and as an example noted that both MNWD and SMWD indicate some future actions that will lower flows to the JBL facility. He commented that planning for changes should occur in a problem solving manner and asked whether PC 2 should be looking at retiring plant facilities in certain areas, or possibly working to assess need for advanced water treatment ten to twenty years out in the future through various planning scenarios.

Director Ferons responded that there are a lot of approaches to master planning going on at the SOCWA agencies and as an example, SMWD is considering a large investment to improve the Oso facility and the alternatives to provide flows to that site. Planning for SOCWA is just one element for the member agencies. Discussions for SMWD are going on with MNWD and IRWD. He noted that the decisions under consideration will bring the use of the JBL facility into focus. Therefore, the SOCWA planning effort is dependent on moving pieces of multiple agencies decisions, and SOCWA needs insight and to be patient in making plans for facility changes and improvements.

Director Erdman noted he appreciated the discussion and proposed that an annual cycle of updates from the member agencies as to their ongoing planning activities and horizons could inform SOCWA's planning. The representatives agreed as to the benefit of setting a meeting with the SOCWA Board in the January timeframe 2021 to invite and hear from each member agency as to its planning endeavors, timeframes, anticipated changes and needs for SOCWA services and facilities. Discussion ensued with the Directors in agreement that SOCWA staff set a January special meeting for short, high level presentations by each member agency to share information related to their planning and use of SOCWA facilities into the future.

The committee members agreed a next Executive Committee meeting should be planned in February 2021.

Adjournment

There being no further business, Chairman Erdman adjourned the meeting at 10:28 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of Special Meeting of the South Orange County Wastewater Authority Executive Committee of November 10, 2020 and approved and ratified by the Board of Directors of the South Orange County Wastewater Authority.

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

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

Finance Committee

August 25, 2020

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee Meeting was held on August 25, 2020, at 10:30 a.m. via teleconference. The following members of the Finance Committee were present via Teams Meeting:

DENNIS ERDMAN	South Coast Water District	Director
ROBB GRANTHAM	Santa Margarita Water District	Alternate Director
RAY MILLER	City of San Juan Capistrano	Alternate Director
MATT COLLINGS	Moulton Niguel Water District	Director
DENNIS CAFFERTY	El Toro Water District	Alternate Director [exited @ 11:55]

Absent:

TONI ISEMAN	City of Laguna Beach	Director
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Staff Participation:

BETTY BURNETT	General Manager
JASON MANNING	Director of Engineering
JIM BURROR	Director of Operation
MARY CAREY	Finance Controller
KONSTANTIN SHILKOV	Senior Accountant
NADYN KIM	Accountant
DAVID BARANOWSKI	Senior Engineer
RONI YOUNG	Associate Engineer
DANITA HIRSH	Executive Assistant

Also Participating:

TRACIE STENDER	Procopio Law Firm	
JULIO MORALES	UFI Financial Solutions	
MARY BETH REDDING	Bartel & Associates	
RICK SHINTAKU	South Coast Water District	
PAMELA ARENDS-KING	South Coast Water District	
JOE McDIVITT	South Coast Water District	
MARC SERNA	South Coast Water District	
KATHRYN FRESHLY	El Toro Water District	[arrived @ 11:55]
CHARLES GIBSON	Santa Margarita Water District	
TREVOR AGRELIUS	Moulton Niguel Water District	
GAVIN CURRAN	City of Laguna Beach	

1. Call Meeting to Order

Chairman Erdman called the meeting to order at 10:33 a.m.

2. **Public Comments** – None

3. **Approval of Minutes**

- a. Finance Committee Meeting June 23, 2020
- b. Finance Committee Meeting August 4, 2020

ACTION TAKEN

Motion was made by Director Grantham and seconded by Director Erdman to approve the Finance Committee Meeting Minutes of June 23, 2020, and August 4, 2020 as submitted.

Motion carried:	Aye 5, Nay 0, Abstained 0, Absent 1
	Director Erdman Aye
	Director Iseman Absent
	Director Miller Aye
	Director Grantham Aye
	Director Collings Aye
	Director Cafferty Aye

4. **Financial Reports for the Month of June 2020**

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Erdman to recommend to the Board of Directors to ratify the June 2020 disbursements for the period from June 1, 2020, through June 30, 2020, totaling \$4,839,157, and to receive and file the June 2020 Financial Reports as submitted.

Motion carried:	Aye 4, Nay 0, Abstained 0, Absent 2
	Director Erdman Absent
	Director Iseman Absent
	Director Miller Aye
	Director Grantham Aye
	Director Collings Aye
	Director Cafferty Aye

5. **Fiscal Year 2019-2020 Preliminary Financials (Year End Results and Preparation of Use Audit)**

Ms. Carey gave a presentation on the year end results and discussed the steps in preparation of the FY 2019-2020 Use Audit located on pages 27 thru 40 of the agenda packet. An open discussion ensued.

Mr. Morales discussed the prepayment options and methodology used in determining the proposed unfunded liability revised payment schedule for each member agency located on pages 41 thru 44 of the agenda packet. An open discussion ensued.

The Finance Committee members concurred to forwarding this agenda item to the Board for further discussion, comments, and direction.

6. Update on Small Capital Expenditures Year End June 30, 2020

Mr. Burror reported on the small internal capital projects delayed due to the ongoing COVID-19 pandemic causing international interruption of supply chains. He noted \$952,813 worth of equipment orders were placed, but because of the delays were not delivered. Mr. Burror continued stating the approved FY 2020-21 Budget did not include carryover funding for small capital projects. He noted that in past years, unspent funds for delayed small capital projects were carried over from one year to the next and addressed in the Use Audit process. An open discussion ensued.

The Finance Committee members concurred to forwarding this item to the Board for further discussion, comments, and direction.

Adjournment

There being no further business, Chairperson Erdman adjourned the meeting at 12:17 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 August 25, 2020, 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

September 22, 2020

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee Meeting was held on September 22, 2020, at 10:30 a.m. via teleconference. The following members of the Finance Committee were present via Teams Meeting:

ROBB GRANTHAM	Santa Margarita Water District	Alternate Director
MATT COLLINGS	Moulton Niguel Water District	Director
DENNIS CAFFERTY	El Toro Water District	Alternate Director
PAM ARENDS-KING	South Coast Water District	Alternate Director

Absent:

RAY MILLER	City of San Juan Capistrano	Alternate Director
TONI ISEMAN	City of Laguna Beach	Director

Staff Participation:

BETTY BURNETT	General Manager
JASON MANNING	Director of Engineering
JIM BURROR	Director of Operation
MARY CAREY	Finance Controller
KONSTANTIN SHILKOV	Senior Accountant
NADYN KIM	Accountant
RONI YOUNG	Associate Engineer
JEANETTE COTINOLA	Procurement / Contracts Administrator
DANITA HIRSH	Executive Assistant

Also Participating:

ADRIANA OCHOA	Procopio Law Firm
DENNIS ERDMAN	South Coast Water District
JULIO MORALES	UFI Financial Solutions
MARY BETH REDDING	Bartel & Associates
KATHRYN FRESHLY	El Toro Water District
TREVOR AGRELIUS	Moulton Niguel Water District

[arrived @ 11:55]

1. Call Meeting to Order

Chairman Erdman called the meeting to order at 10:30 a.m. Director Erdman announced Director Grantham as the new Chair of the Finance Committee and that Ms. Pam Arends-King will be representing South Coast Water District as a member of the Finance Committee.

2. Public Comments

None

3. Financial Reports for the Month of July 2020

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Arends-King to recommend to the Board of Directors to ratify the July 2020 disbursements for the period from July 1, 2020, through July 30, 2020, totaling \$4,072,597, and to receive and file the July 2020 Financial Reports as submitted.

Motion carried:	Aye 4, Nay 0, Abstained 0, Absent 2
	Director Iseman Absent
	Director Miller Absent
	Director Grantham Aye
	Director Collings Aye
	Director Cafferty Aye
	Director Arends-King Aye

4. Financial Reports for the Month of August 2020

ACTION TAKEN

Motion was made by Director Cafferty and seconded by Director Collings to recommend to the Board of Directors to ratify the August 2020 disbursements for the period from August 1, 2020, through August 30, 2020, totaling \$2,769,594, and to receive and file the August 2020 Financial Reports as submitted.

Motion carried:	Aye 4, Nay 0, Abstained 0, Absent 2
	Director Iseman Absent
	Director Miller Absent
	Director Grantham Aye
	Director Collings Aye
	Director Cafferty Aye
	Director Arends-King Aye

5. CalPERS Unfunded Accrued Pension Liability (UAL) Funding Policy

Ms. Carey presented the draft Funding Policy for the CalPERS Unfunded Accrued Pension Liability (UAL) that provided a roadmap to potentially a 100% paydown of unfunded PERS liability based on member agency participation in discretionary funding with a commitment to fund. Mr. Morales also provided a presentation regarding the impacts of accrual of interest. An open discussion ensued.

Director Grantham stated a separate meeting should be held with the member agency Finance Managers in early November to consider the information presented and provide options on how each agency would address the UAL.

The Finance Committee members conceded to discussing the matter with the Finance Committee again once the Finance Managers have met and can provided more feedback on alternative options.

Adjournment

There being no further business, Chairperson Grantham adjourned the meeting at 11:48 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

September 22, 2020, 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

October 27, 2020

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee Meeting was held on October 27, 2020, at 10:30 a.m. via teleconference. The following members of the Finance Committee were present via Teams Meeting:

ROBB GRANTHAM	Santa Margarita Water District	Alternate Director
DAVID SHISSLER	City of Laguna Beach	Alternate Director
DENNIS CAFFERTY	El Toro Water District	Alternate Director
PAM ARENDS-KING	South Coast Water District	Alternate Director

Absent:

RAY MILLER	City of San Juan Capistrano	Alternate Director
MATT COLLINGS	Moulton Niguel Water District	Director

Staff Participation:

BETTY BURNETT	General Manager
JASON MANNING	Director of Engineering
JIM BURROR	Director of Operation
MARY CAREY	Finance Controller
KONSTANTIN SHILKOV	Senior Accountant
NADYN KIM	Accountant
RONI YOUNG	Associate Engineer
JEANETTE COTINOLA	Procurement / Contracts Administrator
DINA ASH	HR Administrator
DANITA HIRSH	Executive Assistant

Also Participating:

ADRIANA OCHOA	Procopio Law Firm
DENNIS ERDMAN	South Coast Water District
KATHRYN FRESHLY	El Toro Water District
ROBB GRANTHAM	Santa Margarita Water District
TREVOR AGRELIUS	Moulton Niguel Water District
JASON HAYDEN	El Toro Water District
GAVIN CURRAN	City of Laguna Beach

1. Call Meeting to Order

Chairman Grantham called the meeting to order at 10:30 a.m.

2. Public Comments

None

3. Financial Reports for the Month of September 2020

ACTION TAKEN

Motion was made by Director Arends-King and seconded by Director Shissler to recommend to the Board of Directors to ratify the September 2020 disbursements for the period from September 1, 2020, through September 30, 2020, totaling \$4,197,180, and to receive and file the September 2020 Financial Reports as submitted.

Motion carried:	Aye 4, Nay 0, Abstained 0, Absent 2
	Director Shissler Aye
	Director Miller Absent
	Director Grantham Aye
	Director Collings Absent
	Director Cafferty Aye
	Director Arends-King Aye

4. Large Capital Cash Flow Management

Mr. Manning gave a presentation on the Large Capital Cash Flow Management. He reported on the FY 2019-2020 year ending cash on hand, and the FY 2020-2021 cash on hand for the first quarter ending September 30, 2020, and illustrated where the cash was currently held by Project Committee as shown on page 26 (slide 3) of the agenda packet. An open discussion ensued.

This was an information item; no action was taken.

5. Update on Non-Capital Engineering and Non-Capital Engineering Miscellaneous Expenditures Year End June 30, 2020

ACTION TAKEN

Motion was made by Director Shissler and seconded by Director Cafferty to recommend to the Board of Directors to approve carry over non-capital engineering in the amount of \$369,508, and non-capital engineering miscellaneous in the amount of \$252,298 with the Use Audit process for FY 2019-2020.

Motion carried:	Aye 4, Nay 0, Abstained 0, Absent 2
	Director Shissler Aye
	Director Miller Absent
	Director Grantham Aye
	Director Collings Absent
	Director Cafferty Aye
	Director Arends-King Aye

6. Draft Use Audit FY 2019-2020 Budget vs. Actual including Cash Roll Forward as of June 30, 2020

Ms. Carey gave a presentation on the Draft Use Audit FY2019-2020 Budget vs. Actual including Cash Roll Forward as of June 30, 2020. An open discussion ensued.

The Finance Committee concurred to needing time to review the FY 2019-2020 Draft Use Audit and Cash Roll Forward as of June 30, 2020, and agreed to hold a Special Finance Committee Meeting on November 3, 2020, at 8:30 a.m. to discuss and make a recommendation to the Board.

7. Q1 FY 2020-21 Cash Roll Forward as of September 30, 2020

The Finance Committee concurred to needing time to review the FY 2020-2021 Cash Roll Forward as of September 30, 2020, and agreed to hold a Special Finance Committee Meeting on November 3, 2020, at 8:30 a.m. to discuss and make a recommendation to the Board.

8. Uniform Purchasing Policy and Procedure – Nondiscretionary Spending

The Finance Committee members concurred to hold off addressing the agenda item 8 and take up at their January 2021 meeting.

Adjournment

There being no further business, Chairperson Grantham adjourned the meeting at 11:58 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 October 27, 2020, 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 REGULAR MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
Engineering Committee**

September 17, 2020

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee Meeting was held on September 17, 2020, at 8:30 a.m. from their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Engineering Committee were present via Teams Meeting:

MARC SERNA	South Coast Water District
ERIC BAUMAN	City of San Juan Capistrano
BOBBY YOUNG	El Toro Water District
MIKE DUNBAR	Emerald Bay Service District [exited @ 9:11 a.m.]
ROD WOODS	Moulton Niguel Water District
LORRIE LAUSTEN	Trabuco Canyon Water District
DAVE REBENS DORF	City of San Clemente
DAVID SHISSLER	City of Laguna Beach
DON BUNTS	Santa Margarita Water District [arrived @ 9:12 a.m.]

Absent:

KEVIN BURTON	Irvine Ranch Water District
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Staff Present:

JASON MANNING	Director of Engineering
DAVID BARANOWSKI	Senior Engineer
RONI YOUNG	Associate Engineer
AMBER BAYLOR	Director of Environmental Compliance
JIM BURROR	Director of Operations [arrived @ 8:43 a.m.]
JEANETTE COTINOLA	Contracts/Procurement Administrator
DANIEL VASQUEZ	Chief Mechanic
DANITA HIRSH	Executive Assistant

Also Present:

MIKE METTS	Dudek
DENNIS ERDMAN	South Coast Water District
TARYN KJOSLING	South Coast Water District

1. Call Meeting to Order

Mr. Manning, Director of Engineering called the meeting to order at 8:31 a.m.

2. Public Comments

None

3. Approval of Minutes

- a. Engineering Committee Meeting of July 9, 2020
- b. PC-5 Engineering Committee Meeting of July 16, 2020; and
- c. Engineering Committee Meeting of August 13, 2020

Staff pulled agenda item 3c to revise and bring back to the Engineering Committee in October for consideration of approval.

ACTION TAKEN

Motion was made by Mr. Serna and seconded by Mr. Dunbar to approve the July 9, 2020 Engineering Committee Meeting Minutes as submitted.

Motion Carried: Aye 5, Nay 0, Abstained 3, Absent 2

David Shissler (CLB)	Abstained
Dave Rebensdorf (CSC)	Abstained
Eric Bauman (CSJC)	Aye
Mike Dunbar (EBSD)	Aye
Bobby Young (ETWD)	Aye
Kevin Burton (IRWD)	Absent
Rod Woods (MNWD)	Aye
Marc Serna (SCWD)	Aye
Don Bunts (SMWD)	Absent
Lorrie Lausten (TCWD)	Aye

Motion was made by Mr. Woods and seconded by Mr. Serna to approve the July 16, 2020 PC-5 Engineering Committee Meeting Minutes as submitted.

Motion Carried: Aye 3, Nay 0, Abstained 2, Absent 0

Dave Rebensdorf (CSC)	Abstained
Eric Bauman (CSJC)	Abstained
Rod Woods (MNWD)	Aye
Mike Dunbar (EBSD)	Aye
Don Bunts (SMWD)	Aye

4. Operations Status Report

Ms. Baylor reported that the San Diego Regional Water Quality Control Board approved the methodology used for buoyant discharges mortality stress factors for the use in the San Juan Creek Ocean Outfall in the Doheny Desal Project. She stated it was a great accomplishment based on the technical work of Michael Baker because it related to the San Juan Creek Ocean Outfall NPDES renewal process, and that it was one of the last steps before getting a draft Administrative permit to help with the review.

This was an information item; no action was taken.

5. Review of the Technical Assessment of the ROMS-BEC Model of Ocean Acidification in the Southern California Bight

Ms. Baylor reported on the technical work that went into reviewing the ROMS-BEC Model, stating the requirements relate to the NPDES permits for Plume tracking. She also reported the model is being used in the Southern California Bight, and noted two key technical issues the committee should be aware of for the use of this model: 1) is the input from the anthropogenic sources as related to river mouths, and 2) is the natural background associated with upwelling in natural submarine ridges that are normally associated with the ocean outfalls. An open discussion ensued.

Ms. Baylor stated that she appreciated the support from the Committee in continuing work efforts of furthering discussions with CASA and SCAP on the matter.

This was an information item; no action was taken.

6. Capital Improvement Construction Projects Report

Staff reviewed with the committee change orders 9 and 10 relating to PC 15 Facility Improvements totaling \$68,291, and change orders 9 through 14 relating to PC 17 Miscellaneous Improvements totaling \$29, 257. An open discussion ensued.

The Engineering Committee conceded to recommending to the PC-15 Board of Directors to approve Change Orders 9, and 10 totaling \$68,291; and that the PC-17 Board of Directors approve Change Orders 8 through 14 totaling \$29,257.

Project Committee 15		Project Committee 17	
Motion		Motion	
Carried:	Aye 3, Nay 0, Abstained 1, Absent 0	Carried:	Aye 5, Nay 0, Abstained 0, Absent 0
	David Shissler (CLB) Aye		David Shissler (CLB) Aye
	Mike Dunbar (CSJC) Aye		Bobby Young (ETWD) Aye
	Rod Woods (MNWD) Abstained		Mike Dunbar (EBSD) Aye
	Marc Serna (SCWD) Aye		Rod Woods (MNWD) Aye
			Marc Serna (SCWD) Aye

7. DUDEK Program and Construction Management Services Update [PC 17]

Mr. Manning reported that the Board approved a contract to Dudek October 3, 2019, to assist with temporary Construction Management support on Capital Improvement Projects. He stated the Regional Plant project was anticipated to be completed by the end of November 2020, but due to certain delays change order 1 adds four additional months of construction management services changing the project to be completed date to February 2021. An open discussion ensued.

The PC-17 Engineering Committee conceded to recommending to the PC-17 Board to approve Change Order 1 for Dudek Program and Construction Services for \$60,660 for a total contract amount of \$317,205.

Motion Carried:	Aye 5, Nay 0, Abstained 0, Absent 0
	David Shissler (CLB) Aye
	Bobby Young (ETWD) Aye
	Mike Dunbar (EBSD) Aye
	Rod Woods (MNWD) Aye
	Marc Serna (SCWD) Aye

8. San Juan Creek Ocean Outfall Junction Structure Rehabilitation Update [PC 5]

Mr. Manning gave a presentation updating the Engineering Committee on the progress of the San Juan Creek Ocean Outfall Junction Structure Rehabilitation Project. An open discussion ensued.

This was an informational item; no action was taken.

9. JB Latham Plant 2 Grit Area Rehabilitation Project [PC 2]

Mr. Manning reported the Plant 2 Grit Area Rehabilitation Project is part of the Package B work, and when the operation staff was performing repairs they recognized other areas in the grit handling system also needing repairs. It was noted that changes that need to be made exceeded the General Manager's \$50,000 authorized limit. He stated that Table 1 on page 46 of the agenda packet shows the cost allocation of the estimated \$60,000 per member agency. Mr. Manning also stated that there is funding available in a related project as part of the Package B Design Project, and is asking for the Engineering Committee's support in recommending to the PC 2 Board approval to apply those funds to the Plant 2 Grit Area Rehabilitation Project. An open discussion ensued.

The Engineering Committee conceded to recommending to the PC-2 Board of Directors to approve the SS Mechanical JBL Plant 2 Grit Area Rehabilitation Project in the amount of \$60,000.

Motion Carried: Aye 4, Nay 0, Abstained 0, Absent 0
David Shissler (CLB) Aye
Rod Woods (MNWD) Aye
Don Bunts (SMWD) Aye
Marc Serna (SCWD) Aye

10. Coastal Treatment Plant Personnel Building Rehabilitation Project Update [PC 15]

Mr. Manning and Mr. Baranowski gave a presentation and reported on the engineering work and design for repairing the Coastal Treatment Plant personnel building locker rooms and drainage. An open discussion ensued.

This was an information item; no action was taken.

11. Coastal Treatment Plant Sludge Force Main Design and Permitting Project Update [PC 15]

Mr. Manning reported the Coastal Development Permit was finally approved and received. He noted his appreciation of the support from Dudek with the permitting and biological review. Mr. Manning stated amongst the change orders that were previously approved by the Board, there was one change order in the amount of \$34,000 that through Procurement auditing was discovered, and had not been presented to the Engineering Committee and the Board for consideration of approval. An open discussion ensued.

The Engineering Committee conceded to recommending to the PC-15 Board of Directors to approve Change Order Number 18 for the Dudek Coastal Treatment Plant Sludge Force Main Design and Permitting Project for \$78,100 for a total revised contract amount of \$788,888 to the Board of Directors.

Motion Carried: Aye 3, Nay 0, Abstained 1, Absent 0
David Shissler (CLB) Aye
Mike Dunbar (EBS) Aye
Rod Woods (MNWD) Abstained
Marc Serna (SCWD) Aye

Adjournment

There being no further business, Mr. Manning adjourned the meeting at 9:40 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 September 17, 2020, and approved by the Engineering 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 REGULAR MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
Engineering Committee**

October 8, 2020

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee Meeting was held on October 8, 2020, at 8:30 a.m. from their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Engineering Committee were present via Teams Meeting:

MIKE MARQUIS	City of San Juan Capistrano
DAVE REBENS DORF	City of San Clemente
BOBBY YOUNG	El Toro Water District
MIKE DUNBAR	Emerald Bay Service District [exited @ 9:35 a.m.]
KEVIN BURTON	Irvine Ranch Water District
ROD WOODS	Moulton Niguel Water District
DON BUNTS	Santa Margarita Water District [arrived @ 8:34 a.m. & exited at 9:34 a.m.]
MARC SERNA	South Coast Water District [exited @ 9:30 a.m.]
LORRIE LAUSTEN	Trabuco Canyon Water District

Absent:

DAVID SHISSLER	City of Laguna Beach
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Staff Present:

BETTY BURNETT	General Manager
JASON MANNING	Director of Engineering
DAVID BARANOWSKI	Senior Engineer
RONI YOUNG	Associate Engineer
AMBER BAYLOR	Director of Environmental Compliance
JIM BURROR	Director of Operations
JEANETTE COTINOLA	Contracts/Procurement Administrator
DANIEL VASQUEZ	Chief Mechanic
DANITA HIRSH	Executive Assistant

Also Present:

DAVE JONES	Hazen
BRYCE DANKER	Hazen
DR. PAUL PITT	Hazen
JOE ROHRBACHER	Hazen
HERSY ENRIQUEZ	Hazen
HANNAH JOHNSON	City of Laguna Beach
DENNIS ERDMAN	South Coast Water District
TARYN KJOSLING	South Coast Water District
MATT COLLINGS	Moulton Niguel Water District
CHRIS NEWTON	South Coast Water District
JESUS GARIBAY	Moulton Niguel Water District

1. Call Meeting to Order

Mr. Manning, Director of Engineering called the meeting to order at 8:30 a.m.

2. Public Comments

None

3. Approval of Minutes

- Engineering Committee Meeting of August 13, 2020

ACTION TAKEN

Motion was made by Mr. Dunbar and seconded by Ms. Lausten to approve the August 13, 2020 Engineering Committee Meeting Minutes as submitted.

Motion Carried:	Aye 8, Nay 0, Abstained 1, Absent 1
	David Shissler (CLB) Absent
	Dave Rebensdorf (CSC) Aye
	Eric Bauman (CSJC) Aye
	Mike Dunbar (EBSD) Aye
	Bobby Young (ETWD) Aye
	Kevin Burton (IRWD) Abstained
	Rod Woods (MNWD) Aye
	Marc Serna (SCWD) Aye
	Don Bunts (SMWD) Aye
	Lorrie Lausten (TCWD) Aye

4. Operations Status Report

Mr. Burror reported on the biosolid efforts staff was working on. He noted that he would be in touch with the agencies who have expressed interest and has set up meetings with South Coast Water and Moulton Niguel to date. Mr. Burror also reported on the Cogen credit, and that he had scheduled meetings with El Toro and Moulton Niguel to discuss the details of the credit. An open discussion ensued.

This was an information item; no action was taken.

5. Capital Improvement Construction Projects Report

Mr. Manning reported there were no change orders to present at this time and gave a brief status update on the ongoing CIP Projects. An open discussion ensued.

This was an information item; no action was taken.

At the discretion of the Engineering Committee the following agenda item was taken out of order.

9. Coastal Treatment Plant Reconfiguration Feasibility Study Update [Project Committee 15]

Mr. Manning reported that Mr. Bryce Danker of Hazen & Sawyer would be giving a presentation on the CTP Feasibility Study Update found on pages 38 through 74 of the agenda packet.

Mr. Bryce Danker of Hazen introduced Mr. Dave Jones, Vice President who introduced other

members of the Hazen team as follows: Dr. Paul Pitt – Wastewater Process Group Nationally, Joe Rohrbacher – Principle Technologist Advisor, and Bryce Danker – Project Manager.

This was an information item; no action was taken.

6. San Juan Creek Ocean Outfall Junction Structure Rehabilitation Update [Project Committee 5]

Mr. Manning reported on the Phase II preliminary cost of construction from Filanc which was received after the agenda packet was distributed. He noted Black & Veatch conducted their review of costs and was having their design group to evaluate and provide reasonable estimates of their own in comparison with the cost that Filanc had provided. Mr. Manning stated the total cost for the Phase II construction came in at \$916,164 as a lump sum not to exceed amount. He added any work that is identified in the project for the conditions are attached to that price and would not incur any change orders. Mr. Manning stated that the only conditions that could have an impact would be on the biological monitoring side. An open discussion ensued.

ACTION TAKEN

The Engineering Committee conceded to recommending the PC-5 Board to award the amendment to Filanc contract in the amount of \$916,164 for the Phase II construction work for a total contract amount of \$1,041,572.

Motion Carried:	Aye 4, Nay 0, Abstained 0, Absent 2
	Dave Rebensdorf (CSC) Aye
	Michael Marquis (CSJC) Aye
	Rod Woods (MNWD) Aye
	Marc Serna (SCWD) Aye
Exited @ 9:34 a.m.	Don Bunts (SMWD) Absent
Exited @ 9:30 a.m.	Lorrie Lausten (TCWD) Absent

7. Regional Treatment Plant Cogeneration System Update [Project Committee 17]

Mr. Manning gave an oral project update on the Regional Treatment CoGen system. He noted the Board approved Biospark and Pacific Hydrotec to move ahead with making modifications to the existing system to allow the use of carbon. An open discussion ensued.

This was an information item; no action was taken.

8. Aliso Creek Air Valve Replacement Update [Project Committee 21]

Mr. Manning reported on the design phase requirements for the Aliso Creek Air Valve Replacement Project. An open discussion ensued.

ACTION TAKEN

The Engineering Committee conceded to recommending the PC-21 Board to approve the Aliso Creek Effluent Transmission Main Design Project to Tetra Tech for \$79,800.

Motion Carried:	Aye 3, Nay 0, Abstained 0, Absent 0
	Bobby Young (ETWD) Aye
	Kevin Burton (IRWD) Aye
	Rod Woods (MNWD) Aye

Adjournment

There being no further business, Mr. Manning adjourned the meeting at 10:16 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 October 8, 2020, and approved by the Engineering 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

4e

Board of Directors Meeting

Meeting Date: December 17, 2020

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Mary Carey, Finance Controller

SUBJECT: Comprehensive Annual Financial Report (CAFR) for Fiscal Year ended June 30, 2020, and 2019

Summary/Discussion

SOCWA is submitting the Comprehensive Annual Financial Report (CAFR) for the fiscal year ended June 30, 2020.

The Authority's first CAFR for fiscal year ended June 30, 2019 received The Government Finance Officers Association of the United States and Canada (GFOA) Award; a Certificate of Achievement for Excellence in Financial Reporting (attached).

GFOA's comments and suggestion for improvement of the initial CAFR were minimal; GFOA's recommendations were acknowledged and are incorporated in the current year CAFR.

The CAFR includes the following documents (but not limited to) for your review:

- Independent Audit Report; an unmodified ("clean") opinion of the financials
- Management's Discussion and Analysis

The CAFR is presented to inform the readers about SOCWA, its services, service area and operations; and it provides a context to properly understand the financial statements and independent audit.

A Draft Copy of the CAFR and the Supplemental Financial Statements were sent to Finance Officers on November 30, 2020. SOCWA's Finance Staff scheduled a meeting with the Finance Officers for December 4, 2020, for discussion and review of these items. The Finance Officers were asked to review the documents, comment as needed and advise their Board members regarding review of the document at the Finance Committee meeting and the Board.

The Finance Committee met as scheduled on December 8, 2020 and comments were provided from the Directors and responded to by staff. A discussion took place regarding the actuarial determination of the OPEB discount rate. Ken Pun provided information to the Committee about the professional role of the actuary in making recommendations. Staff commented that the change in the discount rate came from investment performance discussions held with PARS earlier in the year which had been previously briefed to the Finance Committee and the Board. Additionally, Director Collings expressed interest in consideration of the methodology for

distribution of the unfunded liability to parse an amount related to the salaries in the General Fund. Chair Grantham asked that staff include that in a future Finance Committee discussion during budget preparation.

Recommended Action: The Finance Committee recommends to the Board of Directors to receive and file the Comprehensive Annual Financial Report (CAFR) including the Independent Auditors Report for Fiscal Year ended June 30, 2020, and 2019.

Agenda Item

4f

Board of Directors Meeting

Meeting Date: December 17, 2020

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Mary Carey, Finance Controller
SUBJECT: Fiscal Year 2019-20 Supplemental Financial Statements

Summary/Discussion

South Orange County Wastewater Authority (SOCWA) Draft Audited Financial Statements are at the Consolidated/Authority Level; the attached Balance Sheet/Statement of Net Position and the Income Statement/Statement of Revenues, Expenses, and Changes in Net Position distributes the Audited Financial Statements by Project Committee and Member Agency as directed by SOCWA's Board of Directors.

The reports included are as follows:

- a) Management Discussion and Analysis of Supplemental Financial Statements
- b) Balance Sheet/Statement of Net Position for the Fiscal Year Ended June 30, 2020
- c) Income Statement/Statement of Revenues, Expenses and Changes in Net Position

Recommended Action: The Finance recommends to the Board of Directors to receive and file the Supplemental Financial Statements for the Year Ended June 30, 2020.

MANAGEMENT'S DISCUSSION AND ANALYSIS

Supplemental Financial Statements by Project Committee and Member Agency For Fiscal Year Ended June 30, 2020

South Orange County Wastewater Authority (SOCWA or Authority) Board Approved Audited Financial Statements are at the Consolidated/Authority Level; the attached Balance Sheet/Statement of Net Position and the Income Statement/Statement of Revenues, Expenses, and Changes in Net Position distributes the Audited Financial Statements by Project Committee and Member Agency as directed by SOCWA's Board of Directors.

Key/Significant Board Approved Methodologies and other guidelines used to prepare the Statements are as set forth below:

I. Balance Sheet/Statement of Net Position:

Cash and Investments by Member Agency include the following items:

Cash and Investments by Member Agency									
(In Dollars)									
Member Agency	Large Capital Cash Roll Fwd. ¹	Small Capital ²	Non- Capital ³	Non- Capital Misc. ⁴	O&M Use Audit	Compensated Absences ⁵	Additional Cash ⁶	Total	Member Agency %
City of Laguna Beach	\$1,959,760	\$128,691	\$40,880	\$20,458	\$297,986	\$84,179	\$74,872	\$2,606,826	
City of San Clemente	22,596	457	12,586	1,240	(9,510)	5,053	1,035	33,457	
City of San Juan Capistrano	1,169,716	63,853	114,798	46,454	(2,881)	79,915	45,522	1,517,376	
Emerald Bay Service District	145,699	9,863	2,954	1,207	5,124	3,134	5,569	173,550	
El Toro Water District	879,402	(7,596)	16,596	32,220	(47,377)	22,835	27,267	923,347	
Irvine Ranch Water District	288,915	(25,724)		5,060	2,868	5,482	8,841	285,442	
Moulton Niguel Water District	7,549,614	293,867	240,606	141,067	156,171	307,745	250,099	8,939,169	
South Coast Water District	2,653,594	193,979	131,899	68,592	210,124	150,640	103,940	3,512,768	
Santa Margarita Water District	779,564	47,567	107,022	38,441	(147,142)	74,913	32,859	933,223	
Trabuco Canyon Water District					7,289	583	(8)	7,864	
Total	\$15,448,858	\$704,957	\$667,341	\$354,740	\$472,652	\$734,477	\$549,997	\$18,933,021	84.67%
Cash for Accounts Payable, Payroll Accrual, Prepaid Expense & oth AR								3,428,399	15.33%
Total Cash								\$22,361,420	100.00%

¹Large Capital cash balance as of June 30, 2020 was \$15,448,858 before the Use Audit; an additional billing of \$168,091 will be submitted with the Use Audit Settlement.

²Small Capital cash balance as of June 30, 2020 was \$704,957; \$139,957 will be refunded in the Use Audit and \$565,000 will carryover to FY 2020-21 for in-process projects delayed because of COVID 19.

³Non-Capital cash balance as of June 30, 2020 was \$667,341; \$297,833 will be refunded in the Use Audit and \$369,508 will carryover to FY 2020-21 for in-process projects delayed because of COVID19

⁴Non-Capital Misc. cash balance as of June 30, 2020 was \$354,740; \$102,442 will be refunded in the Use Audit and \$252,298 will carryover to FY 2020-21 for in-process projects delayed because of COVID 19.

⁵Compensated Absences are employees earned paid time off (PTO) but not yet taken.

⁶Additional Cash is primarily Interest Income on capital cash balances in LAIF.

The Authority has identified 85% of its Cash by Member Agency. The remaining cash, \$3.4 million, is primarily accounts payable obligations, \$3.5 million, offset by prepaids. Accounts payable is only recorded by project committee due to their short term nature and the corresponding debit is recorded to O&M expenses and Capital expenditures which is maintained by project committee and Member Agency.

Receivables:

All Member Agencies invoices were paid; the \$49 thousand in accounts is insurance proceeds due, \$32 thousand, \$14 thousand related to the cost sharing agreement for the wall separating JB Latham and the Condominiums, and Pre-Treatment billings to commercial businesses, \$3 thousand.

Due from Member Agencies:

Fiscal Year 2019-20 unsettled Use Audit, expenditures greater than amounts invoiced to the Member Agencies. Project Committee and Member Agency distribution are from the Use Audits.

LAIF Interest Receivable:

Distributed by Project Committee and Member Agency based on FY 2019-20 Large Capital Cash Balance per agreement with the Finance Officers.

Capital Assets:

Capital Assets are owned by SOCWA; therefore, they are only tracked by Project Committee.

GASB 68 Pension and GASB 75 OPEB (retiree health) related deferred outflows of resources:

Distributed by Project Committee and Member Agency using Board Approved Methodology jointly recommended by SOCWA and Actuaries.

Due to Member Agencies:

Fiscal year 2019-20 unsettled Use Audits, expenditures less than amounts invoiced to the Member Agencies. Project Committee and Member Agency distribution are from the Use Audits.

Compensated Absences-Current and Long Term:

Distributed by Project Committee and Member Agency using Board Approved Methodology jointly recommended by SOCWA and Actuaries.

GASB 75 Net OPEB (retiree health) Liability:

Distributed by Project Committee and Member Agency using Board Approved Methodology jointly recommended by SOCWA and Actuaries.

GASB 68 Net Pension Liability:

Distributed by Project Committee and Member Agency using Board Approved Methodology jointly recommended by SOCWA and Actuaries.

GASB 68 Pension and GASB 75 OPEB (retiree health) related deferred inflow of resources:

Distributed by Project Committee and Member Agency using Board Approved Methodology jointly recommended by SOCWA and Actuaries.

II. Income Statement/Statement of Revenues, Expenses and Changes in Net Position:

Operating Revenues are from FY 2019-20 Use Audit and are equal to actual FY 2019-20 total O&M expenses.

	Actual Spending and Actual Usage							USE Audit Results
	O&M			Small Capital ²	Large Capital ³	Non-Capital ⁴	Non-Capital Misc. ⁵	
	FY 2019-20 Budget ¹	FY 2019-20 Actual	(Over)/Under Budget	(Over)/Under Budget	(Over)/Under Budget	(Over)/Under Budget	(Over)/Under Budget	
SOCWA by Member Agency								
City of Laguna Beach	\$2,397,060	\$2,099,074	\$297,986	\$28,440		\$26,671	\$4,266	\$357,363
City of San Clemente	146,256	155,766	(9,510)	457			991	(8,062)
City of San Juan Capistrano	2,195,284	2,198,165	(2,881)	16,756	(\$51,746)	45,829	10,599	18,558
El Toro Water District	889,676	937,053	(47,377)	(12,903)		9,344	11,326	(39,611)
Emerald Bay Service District	154,448	149,324	5,124	2,046		1,951	237	9,357
Irvine Ranch Water District	163,392	160,524	2,868	(25,724)			4,745	(18,112)
Moulton Niguel Water District	9,149,540	8,993,369	156,171	51,572	(38,783)	120,814	32,302	322,076
Santa Margarita Water District	2,210,540	2,357,682	(147,142)	12,160	(29,083)	37,394	11,855	(114,816)
South Coast Water District	3,946,388	3,736,264	210,124	67,153	(48,479)	55,829	26,122	310,749
Trabuco Canyon Water District	62,264	54,975	7,289					7,289
Total Member Agency	\$21,314,848	\$20,842,196	\$472,652	\$139,957	(\$168,091)	\$297,833	\$102,442	\$844,792

South Orange County Wastewater Authority			
Statement of Revenues, Expenses and Changes in Net Position			
For the year ended June 30, 2020			
	SOCWA	PC23	Consolidated
	Actual	Actual	Actual
	6/30/2020	6/30/2020	6/30/2020
OPERATING REVENUES			
O & M Member Agency Assessments			
City of Laguna Beach	\$2,099,074	\$1,613,764	\$3,712,839
City of San Clemente	155,766		155,766
City of San Juan Capistrano	2,198,165		2,198,165
Emerald Bay Service District	149,324		149,324
El Toro Water District	937,053		937,053
Irvine Ranch Water District	160,524		160,524
Moulton Niguel Water District	8,993,369		8,993,369
South Coast Water District	3,736,264		3,736,264
Santa Margarita Water District	2,357,682		2,357,682
Trabuco Canyon Water District	54,975		54,975
Total O & M Member Agency Assessments	\$20,842,196	\$1,613,764	\$22,455,960

Operating Expenses:

O&M Direct expenses are from FY 2019-20 Use Audit, O&M and Environmental Compliance, Safety actual expenses distributed by Project Committee and Member Agency.

Admin, General Fund and Engineering are from FY 2019-20 Use Audit distribution by Project Committee and Member Agency.

Unallocated portion of pension and OPEB expense (amounts not included in O&M expenses):

Distributed by Project Committee and Member Agency using Board Approved Methodology jointly recommended by SOCWA and Actuaries.

Other Expenses:

Non-Capital Engineering is from the Cash Roll Forward by Project Committee and Member Agency. These are engineering assessments, studies, reports, etc. that will not become a Capital Project.

Inventory Change (Infrastructure Spare parts) are consumption or movement of Inventory to capital.

Additional Cash Payment to Member Agencies were the payments to Member Agencies for Cash from Other Sources as of June 30, 2019.

Additional Cash Payments	
Member Agency	Additional Cash
City of Laguna Beach	\$40,364
City of San Clemente	1,712
City of San Juan Capistrano	59,270
Emerald Bay Service District	3,072
El Toro Water District	10,677
Irvine Ranch Water District	3,208
Moulton Niguel Water District	138,159
South Coast Water District	82,472
Santa Margarita Water District	52,010
Trabuco Canyon Water District	-
Total	\$390,946

Depreciation and Amortization is tracked by Project Committee only because the Capital Assets are owned by SOCWA.

Capital Contributions:

Large Capital, Small Capital and Non-Capital Engineering quarterly invoices to Member Agencies by Project Committee and Member Agencies Net of Use Audit Adjustment for Closed Capital Projects.

Member Agency Assessments	
City of Laguna Beach	\$2,037,256
City of San Clemente	13,298
City of San Juan Capistrano	1,208,118
Emerald Bay Service District	155,641
El Toro Water District	498,765
Irvine Ranch Water District	180,705
Moulton Niguel Water District	6,978,710
South Coast Water District	2,631,719
Santa Margarita Water District	883,659
Total Member Agency Assessments	<u>\$14,587,871</u>

Non-Operating Revenues (Expenses):

Grant Revenue:

The Cash received for the Grant Revenue was included in Large Capital Cash Roll Forward by project committee, capital project and member agency for Co-Gen Projects.

So. Cal Edison, Co-Gen Projects	
Member Agency	Regional
City of Laguna Beach	\$21,670
City of San Juan Capistrano	-
Emerald Bay Service District	1,140
El Toro Water District	39,419
Moulton Niguel Water District	113,604
South Coast Water District	17,305
Santa Margarita Water District	-
Total Grant Revenue	\$193,138

Interest Income:

Distributed by Project Committee and Member Agency based on FY 2019-20 Large Capital Cash Balance per agreement with the Finance Officers.

Gain on Sales of Fixed Assets was distributed by member agency based on capital ownership percentages.

Recycling Income was distributed by member agency based on capital ownership percentages.

FEMA and CA State Reimbursements were identified to project committee and was distributed by member agency using the Use Audit distribution.

South Orange County Wastewater Authority
Statements of Revenues, Expenses and Changes in Net Position by Project Committee and Member Agency
For the year ended June 30, 2020

General Agency	JB Latham Treatment Plant PC 2	3A AWT Plant PC 3	San Juan Creek Ocean Outfall PC 5	Pre Treatment Program PC 8	Wastewater Discharge Permitting PC 12 (2SO)	Coastal Treatment Plant PC 15	Joint Regional Treatment Plant PC 17	Effluent ransmissic Main PC 21	North Coast Interceptor PC23	Aliso Creeek Ocean Outfall PC 24	SOCWA before PC 23	*North Coast Interceptor PC23	SOCWA Consolidated	Board Approved Allocation %'s
01														
OPERATING REVENUES														
O & M Member Agency Assessments¹														
City of Laguna Beach	\$ -	\$ -	\$ -	\$ -	\$ 7,196	\$ -	\$ 1,383,252	\$ 612,362	\$ -	\$ 33,498	\$ 62,766	\$ 2,099,074	\$ 1,613,764	\$ 3,712,839
City of San Clemente			126,962	28,804							155,766			155,766
City of San Juan Capistrano	2,072,861		70,139	15,616	39,549						2,198,165			2,198,165
Emerald Bay Service District				4,475		99,940	37,644				7,265	149,324		149,324
El Toro Water District				6,920			825,814	9,384			94,935	937,053		937,053
Irvine Ranch Water District				26,342				12,447			121,734	160,524		160,524
Moulton Niguel Water District	1,365,015		96,453	43,967	104,488	204,432	6,929,685	3,861			245,467	8,993,369		8,993,369
South Coast Water District	1,698,926		78,676	32,005	45,777	1,428,941	382,023				69,915	3,736,264		3,736,264
Santa Margarita Water District	1,925,115		280,018	45,955	106,593							2,357,682		2,357,682
Trabuco Canyon Water District					54,975							54,975		54,975
Total	7,061,917		652,248	211,282	351,382	3,116,565	8,787,528	25,693	33,498	602,083	20,842,196	1,613,764		22,455,960
OPERATING EXPENSES														
O&M Direct Expenses:														
City of Laguna Beach				6,232		1,197,943	530,326		29,010	54,358	1,817,869	414,260		2,232,129
City of San Clemente			91,235	20,699							111,934			111,934
City of San Juan Capistrano	1,797,568		60,824	13,542	34,297						1,906,230			1,906,230
Emerald Bay Service District				2,374		53,023	19,972				3,854	79,223		79,223
El Toro Water District				5,872			700,753	7,963			80,558	795,146		795,146
Irvine Ranch Water District				16,852				7,963			77,878	102,694		102,694
Moulton Niguel Water District	1,204,943		85,142	38,811	92,235	180,458	6,117,054	3,408			216,682	7,938,734		7,938,734
South Coast Water District	1,478,192		68,454	27,847	39,830	1,243,286	332,389				60,831	3,250,829		3,250,829
Santa Margarita Water District	1,672,640		243,295	39,928	92,614							2,048,476		2,048,476
Trabuco Canyon Water District					35,539							35,539		35,539
Total	6,153,343		548,950	172,158	294,514	2,674,709	7,700,494	19,335	29,010	494,162	18,086,675	414,260		18,500,935
Admin, General Fund & Engineering after capital														
City of Laguna Beach				964		185,309	82,036		4,488	8,409	281,206			281,206
City of San Clemente			35,727	8,105							43,832			43,832
City of San Juan Capistrano	275,293		9,315	2,074	5,252						291,934			291,934
Emerald Bay Service District				2,101		46,918	17,672				3,411	70,101		70,101
El Toro Water District				1,048			125,061	1,421			14,377	141,907		141,907
Irvine Ranch Water District				9,490				4,484			43,856	57,830		57,830
Moulton Niguel Water District	160,073		11,311	5,156	12,253	23,973	812,630	453			28,785	1,054,635		1,054,635
South Coast Water District	220,733		10,222	4,158	5,948	185,655	49,634				9,084	485,435		485,435
Santa Margarita Water District	252,475		36,724	6,027	13,979							309,206		309,206
Trabuco Canyon Water District					19,436							19,436		19,436
Total	908,574		103,298	39,123	56,868	441,856	1,087,034	6,358	4,488	107,921	2,755,521			2,755,521
Total O&M Operating Expenses (Use Audit)	7,061,917		652,248	211,282	351,382	3,116,565	8,787,528	25,693	33,498	602,083	20,842,196	414,260		21,256,456

*PC 23 Assets are owned by SOCWA ; recordkeeping is done by the City of Laguna Beach, any differences between SOCWA's books and the City of Laguna Beach are added to SOCWA's annual financials.

¹Quarterly O&M Billings to Member Agencies Net of Use Audit true up to Actual.

(cont'd next page)

South Orange County Wastewater Authority
Statements of Revenues, Expenses and Changes in Net Position by Project Committee and Member Agency
For the year ended June 30, 2020

General Agency	JB Latham Treatment Plant	3A AWT Plant	San Juan Creek Ocean Outfall	Pre Treatment Program	Wastewater Discharge Permitting	Coastal Treatment Plant	Joint Regional Treatment Plant	Effluent Transmissio Main	North Coast Interceptor	Aliso Creek Ocean Outfall	SOCWA before PC 23	*North Coast Interceptor PC23	SOCWA Consolidated	Board Approved Allocation %'s
01	PC 2	PC 3	PC 5	PC 8	PC 12 (2SO)	PC 15	PC 17	PC 21	PC23	PC 24				
O&M Operating Income														
City of Laguna Beach	0	0	0	(0)	0	0	0	0	(0)	(0)	(0)	1,199,504	1,199,504	
City of San Clemente	0	0	(0)	0	0	0	0	0	0	0	0	0	0	
City of San Juan Capistrano	(0)	0	(0)	0	(0)	0	0	0	0	0	(0)	0	(0)	
Emerald Bay Service District	0	0	0	(0)	0	0	(0)	0	0	0	(0)	0	(0)	
El Toro Water District	0	0	0	(0)	0	0	0	0	0	(0)	(0)	0	(0)	
Irvine Ranch Water District	0	0	0	(0)	0	0	0	(0)	0	(0)	(0)	0	(0)	
Moulton Niguel Water District	(0)	0	0	0	(0)	(0)	0	0	0	(0)	0	0	0	
South Coast Water District	0	0	0	0	0	(0)	(0)	0	0	0	0	0	0	
Santa Margarita Water District	(0)	0	0	0	(0)	0	0	0	0	0	(0)	0	(0)	
Trabuco Canyon Water District	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total O&M Operating Income	0	(0)	0	(0)	0	(0)	0	0	(0)	(0)	(0)	1,199,504	1,199,504	

Unallocated portion of Pension and OPEB expense²

City of Laguna Beach				2,917		122,241	33,354		4,558	163,070		163,070	10.69%
City of San Clemente			6,228	4,032						10,261		10,261	0.67%
City of San Juan Capistrano	149,080		5,768	4,012	221					159,081		159,081	10.43%
Emerald Bay Service District				241		5,256	1,270		188	6,955		6,955	0.46%
El Toro Water District				2,333	182		42,655		8,338	53,508		53,508	3.51%
Irvine Ranch Water District				4,276	295				7,046	11,616		11,616	0.76%
Moulton Niguel Water District	83,871	133,428	4,403	8,865	1,093	14,274	428,511		10,118	684,562		684,562	44.87%
South Coast Water District	117,311		4,175	6,667	284	130,452	23,431		2,026	284,346		284,346	18.64%
Santa Margarita Water District	105,599	26,200	11,015	8,409	878					152,101		152,101	9.97%
Trabuco Canyon Water District					271					271		271	0.02%
Total GASB 68 unallocated expense by PC and Member Agency	455,860	159,628	31,590	41,753	3,224	272,224	529,220		32,274	1,525,773		1,525,773	100.00%

²Distributed by Project Committee and Member Agency using Board Approved Actuarial Methodology; these are Actuarially determined expenses not included in O&M.

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South Orange County Wastewater Authority
Statements of Revenues, Expenses and Changes in Net Position by Project Committee and Member Agency
For the year ended June 30, 2020

General Agency	JB Latham Treatment Plant PC 2	3A AWT Plant PC 3	San Juan Creek Ocean Outfall PC 5	Pre Treatment Program PC 8	Wastewater Discharge Permitting PC 12 (2SO)	Coastal Treatment Plant PC 15	Joint Regional Treatment Plant PC 17	Effluent Transmissic Main PC 21	North Coast Interceptor PC23	Aliso Creel Ocean Outfall PC 24	SOCWA before PC 23	*North Coast Interceptor PC23	SOCWA Consolidated	Board Approved Allocation %'s
Other Expenses														
Non-Capital Engineering														
City of Laguna Beach						11,274	2,175			241	13,690		13,690	
City of San Clemente			464								464			
City of San Juan Capistrano	55,763		310								56,072		56,072	
Emerald Bay Service District						888	114			17	1,019		1,019	
El Toro Water District							3,824			357	4,182		4,182	
Irvine Ranch Water District										345	345		345	
Moulton Niguel Water District	41,413		433			8,699	16,646			961	68,153		68,153	
South Coast Water District	48,494		348			8,877	1,738			270	59,726		59,726	
Santa Margarita Water District	36,724		1,238								37,962		37,962	
Trabuco Canyon Water District														
Total Non-Capital Engineering	182,394		2,794			29,738	24,498	0		2,192	241,615		241,615	
Inventory Change (Infrastructure Spare Parts) ³	314,465					231,015	155,906				701,387		701,387	
Additional Cash Payments to Member Agencies														
City of Laguna Beach						35,863	4,149			353	40,364		40,364	
City of San Clemente			1,712								1,712		1,712	
City of San Juan Capistrano	58,129		1,141								59,270		59,270	
Emerald Bay Service District						2,828	218			25	3,072		3,072	
El Toro Water District							7,452	2,703		523	10,677		10,677	
Irvine Ranch Water District								2,703		506	3,208		3,208	
Moulton Niguel Water District	42,671	7,477	1,597			12,584	72,423			1,407	138,159		138,159	
South Coast Water District	46,177		1,284			31,302	3,313			395	82,472		82,472	
Santa Margarita Water District	44,534	2,925	4,551								52,010		52,010	
Trabuco Canyon Water District														
Total	191,512	10,402	10,285	0	0	82,577	87,555	5,405		3,209	390,946		390,946	
Other Misc.	3,277										3,277		3,277	
Total Other Expenses	3,277	688,371	10,402	13,079	0	343,330	267,959	5,405		5,401	1,337,225		1,337,225	
Depreciation and Amortization	28,598	2,378,154		48,348	2,758		1,672,140	2,472,028	242,168	259,142	7,103,338	59,017	7,162,355	
Operating (Loss)	(31,875)	(3,522,385)	(170,030)	(93,018)	(44,511)	(3,224)	(2,287,695)	(3,269,207)	(247,574)	(259,142)	(37,675)	(9,966,336)	1,140,487	(8,825,849)

³Spare parts inventory consumed or moved to Capital.

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South Orange County Wastewater Authority
Statements of Revenues, Expenses and Changes in Net Position by Project Committee and Member Agency
For the year ended June 30, 2020

General Agency	JB Latham Plant PC 2	3A AWT Plant PC 3	San Juan Creek Ocean Outfall PC 5	Pre Treatment Program PC 8	Wastewater Discharge Permitting PC 12 (2SO)	Coastal Treatment Plant PC 15	Joint Regional Treatment Plant PC 17	Effluent Transmittion Main PC 21	North Coast Interceptor PC23	Aliso Creek Ocean Outfall PC 24	SOCWA before PC 23	*North Coast Interceptor PC23	SOCWA Consolidated	Board Approved Allocation %'s
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NON-OPERATING REVENUES (EXPENSES):

Interest Income⁶

City of Laguna Beach						50,973	10,327			728	62,028		62,028	
City of San Clemente			715								715		715	
City of San Juan Capistrano	36,546		477								37,023		37,023	
Emerald Bay Service District						4,016	543			52	4,612		4,612	
El Toro Water District							18,654	8,101		1,079	27,834		27,834	
Irvine Ranch Water District								8,101		1,043	9,144		9,144	
Moulton Niguel Water District	27,285		667			39,311	167,034	1,753		2,902	238,953		238,953	
South Coast Water District	32,769		537			41,621	8,248			815	83,989		83,989	
Santa Margarita Water District	22,782		1,892								24,674		24,674	
Total Interest Income	119,382		4,288			135,922	204,806	17,956		6,619	488,972		488,972	

Other Revenues

Grant Revenue⁵

City of Laguna Beach							21,670				21,670		21,670	
City of San Juan Capistrano													0	
Emerald Bay Service District							1,140				1,140		1,140	
El Toro Water District							39,419				39,419		39,419	
Moulton Niguel Water District							113,604				113,604		113,604	
South Coast Water District							17,305				17,305		17,305	
Santa Margarita Water District													0	
Total Grant Revenue							193,138				193,138		193,138	

FEMA and CA State Cost

Reimbursement

City of Laguna Beach						10,933					10,933		10,933	
City of San Juan Capistrano						790					790		790	
Emerald Bay Service District														
El Toro Water District														
Moulton Niguel Water District						1,616					1,616		1,616	
South Coast Water District						11,294					11,294		11,294	
Santa Margarita Water District														
Total Revenue						24,633					24,633		24,633	

Gain on Sale of Fixed Assets⁷

City of Laguna Beach						2,868	13				2,881		2,881	
City of San Juan Capistrano	276										276		276	
Emerald Bay Service District						226	1				226		226	
El Toro Water District							21				21		21	
Moulton Niguel Water District	203					2,213	158				2,574		2,574	
South Coast Water District	222					2,258	10				2,490		2,490	
Santa Margarita Water District	207										207		207	
Total Gain on Sale of Fixed Assets	908					7,565	203				8,675		8,675	

Recycling Income⁷

City of Laguna Beach						288	39				327		327	
City of San Juan Capistrano	177										177		177	
Emerald Bay Service District						39	2				25		25	

South Orange County Wastewater Authority
Statements of Revenues, Expenses and Changes in Net Position by Project Committee and Member Agency
For the year ended June 30, 2020

	General Agency	JB Latham Treatment Plant	3A AWT Plant	San Juan Creek Ocean Outfall	Pre Treatment Program	Wastewater Discharge Permitting	Coastal Treatment Plant	Joint Regional Treatment Plant	Effluent ransmission Main	North Coast Interceptor	Aliso Creek Ocean Outfall	SOCWA before PC 23	*North Coast Interceptor	SOCWA Consolidated	Board Approved Allocation %'s
	01	PC 2	PC 3	PC 5	PC 8	PC 12 (2SO)	PC 15	PC 17	PC 21	PC23	PC 24		PC23		
El Toro Water District								64				64			64
Moulton Niguel Water District		130					222	488				840			840
South Coast Water District		142					227	31				400			400
Santa Margarita Water District		133										133			133
Total Recycling Income		582					760	624				1,966			1,966
Other Misc															
Total Other Revenues		1,489					32,958	193,964				228,411			228,411
Total Non-Operating Revenue		120,871		4,288			168,880	398,770	17,956		6,619	717,384			717,384

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South Orange County Wastewater Authority
Statements of Revenues, Expenses and Changes in Net Position by Project Committee and Member Agency
For the year ended June 30, 2020

General Agency	JB Latham Treatment Plant PC 2	3A AWT Plant PC 3	San Juan Creek Ocean Outfall PC 5	Pre Treatment Program PC 8	Wastewater Discharge Permitting PC 12 (2SO)	Coastal Treatment Plant PC 15	Joint Regional Treatment Plant PC 17	Effluent Transmissic Main PC 21	North Coast Interceptor PC23	Aliso Creek Ocean Outfall PC 24	SOCWA before PC 23	*North Coast Interceptor PC23	SOCWA Consolidated	Board Approved Allocation %s
CAPITAL CONTRIBUTIONS FROM MEMBER AGENCIES⁴														
Member Agency Assessments:														
City of Laguna Beach						1,848,131	176,976			12,149	2,037,256		2,037,256	
City of San Clemente			13,298								13,298		13,298	
City of San Juan Capistrano	1,199,252		8,866								1,208,118		1,208,118	
Emerald Bay Service District						145,471	9,310			861	155,641		155,641	
El Toro Water District							317,461	163,301		18,004	498,765		498,765	
Irvine Ranch Water District								163,301		17,405	180,705		180,705	
Moulton Niguel Water District	886,143		12,412			1,426,156	4,550,185	55,383		48,431	6,978,710		6,978,710	
South Coast Water District	1,001,572		9,981			1,465,237	141,333			13,596	2,631,719		2,631,719	
Santa Margarita Water District	848,194		35,465								883,659		883,659	
Total	3,935,161		80,023			4,884,995	5,195,264	381,984		110,445	14,587,871		14,587,871	
Change in Net Position	(31,875)	533,647	(170,030)	(8,707)	(44,511)	(3,224)	2,766,180	2,324,827	152,366	(259,142)	79,389	5,338,919	1,140,487	6,479,406

⁴Large Capital, Non-Capital and Small Capital quarterly billings Net of Use Audit and Large Capital Refunds.

⁵Grant Revenue from Southern California Edison and SDG&E for Co-Gen Projects; energy generation.

⁶Distributed by Project Committee and Member Agency based on Large Capital Cash Balance as of 6/30/2019.

⁷ Distributed by Member Agency using capital common ownership percentages; used Liquids for PC 15.

South Orange County Wastewater Authority
Statements of Net Position by Project Committee and Member Agency
As of June 30, 2020

General Agency	JB Latham Treatment Plant PC 2	3A AWT Plant PC 3	San Juan Creek Ocean Outfall PC 5	Pre Treatment Program PC 8	Wastewater Discharge Permitting PC 12 (2SO)	Coastal Treatment Plant PC 15	Joint Regional Treatment Plant PC 17	Effluent Transmission Main PC 21	North Coast Interceptor PC 23	Aliso Creek Ocean Outfall PC 24	SOCWA before PC 23	*North Coast Interceptor PC 23	SOCWA Consolidated	Board Approved Allocation %'s
Noncurrent Assets														
Capital Assets Not Depreciated	9,491,118		424,695			14,657,627	12,781,408	262,294		57,144	37,674,285		37,674,285	
Capital assets, depreciable, net	42,548	30,807,577	431,810	2,758		25,866,445	33,082,545	2,341,051	3,767,989	0	96,342,725	3,636,900	99,979,624	
Total Noncurrent Assets	42,548	40,298,695	856,505	2,758		40,524,072	45,863,952	2,603,346	3,767,989	57,144	134,017,009	3,636,900	137,653,909	
Total ASSETS	330,229	46,875,225	145	1,220,792	77,330	130,769	46,877,330	54,728,054	3,201,069	3,767,982	328,654	157,537,579	3,636,900	161,174,479
Deferred Outflows of Resources														
Pensions related deferred outflows of resources⁵														
City of Laguna Beach				6,415		268,821	73,349			10,023	358,609		358,609	10.69%
City of San Clemente			13,697	8,868							22,564		22,564	0.67%
City of San Juan Capistrano	327,844		12,685	8,823	485						349,837		349,837	10.43%
Emerald Bay Service District				531		11,559	2,793			413	15,296		15,296	0.46%
El Toro Water District				5,130	400		93,803			18,337	117,670		117,670	3.51%
Irvine Ranch Water District				9,403	649					15,494	25,546		25,546	0.76%
Moulton Niguel Water District	184,441	293,423	9,683	19,495	2,403	31,391	942,342			22,250	1,505,428		1,505,428	44.87%
South Coast Water District	257,980		9,182	14,661	625	286,879	51,526			4,456	625,309		625,309	18.64%
Santa Margarita Water District	232,223	57,617	24,223	18,493	1,930						334,487		334,487	9.97%
Trabuco Canyon Water District					597						597		597	0.02%
Total Pensions related deferred outflows of resources	1,002,487	351,040	69,470	91,819	7,089	598,650	1,163,813			70,973	3,355,343		3,355,343	100.00%
OPEB related deferred outflows of resources⁵														
City of Laguna Beach				1,237		51,820	14,139			1,932	69,128		69,128	10.69%
City of San Clemente			2,640	1,709							4,350		4,350	0.67%
City of San Juan Capistrano	63,198		2,445	1,701	93						67,437		67,437	10.43%
Emerald Bay Service District				102		2,228	538			80	2,949		2,949	0.46%
El Toro Water District				989	77		18,082			3,535	22,683		22,683	3.51%
Irvine Ranch Water District				1,813	125					2,987	4,924		4,924	0.76%
Moulton Niguel Water District	35,554	56,562	1,867	3,758	463	6,051	181,653			4,289	290,197		290,197	44.87%
South Coast Water District	49,730		1,770	2,826	121	55,301	9,933			859	120,539		120,539	18.64%
Santa Margarita Water District	44,765	11,107	4,669	3,565	372						64,478		64,478	9.97%
Trabuco Canyon Water District					115						115		115	0.02%
Total OPEB related deferred outflows of resources	193,247	67,669	13,392	17,700	1,367	115,400	224,345			13,681	646,800		646,800	100.00%
Total deferred outflows of resources	1,195,734	418,709	82,862	109,519	8,456	714,051	1,388,158			84,655	4,002,143		4,002,143	

⁴Distributed by Project Committee and Member Agency based on Large Capital Cash Balance as of 6/30/2020.

⁵Distributed by Project Committee and Member Agency using Board Approved Actuarial Methodology.

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South Orange County Wastewater Authority
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As of June 30, 2020

General Agency	JB Latham Treatment Plant PC 2	3A AWT Plant PC 3	San Juan Creek Ocean Outfall PC 5	Pre Treatment Program PC 8	Wastewater Discharge Permitting PC 12 (2SO)	Coastal Treatment Plant PC 15	Joint Regional Treatment Plant PC 17	Effluent Transmission Main PC 21	North Coast Interceptor PC 23	Aliso Creek Ocean Outfall PC 24	SOCWA before PC 23	*North Coast Interceptor PC 23	SOCWA Consolidated	Board Approved Allocation %s
LIABILITIES														
Current Liabilities														
Accounts Payable	190,644	1,338,297	73,587	1,175	35,147	840,442	1,036,554	14		14,689	3,530,550		3,530,550	
Due to Member Agencies⁶														
City of Laguna Beach				2,420		202,978	183,416			2,047	390,861		390,861	
City of San Clemente			1,448								1,448		1,448	
City of San Juan Capistrano	72,219		43,913	9,072	19,869						145,073		145,073	
Emerald Bay Service District				829		4,773	3,739			69	9,410		9,410	
El Toro Water District				0			28,699	3,790		3,661	36,149		36,149	
Irvine Ranch Water District				13,630				3,790		2,599	20,018		20,018	
Moulton Niguel Water District	197,649		1,351	9,385	26,544	82,084	111,693	2,671		8,982	440,358		440,358	
South Coast Water District	55,752		1,087	6,171	6,147	280,864	149,297			2,450	501,766		501,766	
Santa Margarita Water District	57,548		3,862	15,193	27,847						104,449		104,449	
Trabuco Canyon Water District					7,289						7,289		7,289	
Total Due to Member Agencies	383,167		51,661	56,698	87,696	570,700	476,844	10,250		19,807	1,656,822		1,656,822	
Accrued payroll and related liabilities	96,136	23,991	1,262	2,048	779	11,072	23,614			1,147	160,049		160,049	
Compensated Absences -due within one year⁵														
City of Laguna Beach				340		37,876	10,462			1,341	50,019		50,019	11.46%
City of San Clemente			2,110	892							3,002		3,002	0.69%
City of San Juan Capistrano	44,798		1,828	573	287						47,486		47,486	10.88%
Emerald Bay Service District				111		1,348	335			68	1,862		1,862	0.43%
El Toro Water District				214	227		11,246			1,882	13,569		13,569	3.11%
Irvine Ranch Water District				1,025	387					1,846	3,257		3,257	0.75%
Moulton Niguel Water District	31,721	78	1,919	1,963	1,471	3,810	137,962			3,938	182,863		182,863	41.90%
South Coast Water District	36,623		1,634	1,486	366	41,190	7,152			1,059	89,511		89,511	20.51%
Santa Margarita Water District	37,908	8	3,266	2,126	1,205						44,513		44,513	10.20%
Trabuco Canyon Water District					346						346		346	0.08%
Total Compensated Absences-due within one year	151,051	86	10,758	8,730	4,289	84,224	167,156			10,135	436,428		436,428	100.00%
Total Current Liabilities	286,781	1,896,505	86	137,268	68,650	127,910	1,506,438	1,704,168	10,264	-	45,778	5,783,848	5,783,848	

⁶Use Audit costs less than amount invoiced.

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As of June 30, 2020

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Noncurrent Liabilities														
Compensated Absences -due in more than one year⁵														
City of Laguna Beach				232		25,867	7,145			916	34,160		34,160	11.46%
City of San Clemente			1,441	609							2,050		2,050	0.69%
City of San Juan Capistrano	30,594		1,248	391	196						32,429		32,429	10.88%
Emerald Bay Service District				76		920	229			47	1,272		1,272	0.43%
El Toro Water District				146	155		7,680			1,285	9,266		9,266	3.11%
Irvine Ranch Water District				700	264					1,261	2,224		2,224	0.75%
Moulton Niguel Water District	21,663	54	1,311	1,340	1,005	2,602	94,218			2,690	124,882		124,882	41.90%
South Coast Water District	25,011		1,116	1,015	250	28,130	4,884			723	61,129		61,129	20.51%
Santa Margarita Water District	25,889	5	2,231	1,452	823						30,399		30,399	10.20%
Trabuco Canyon Water District					236						236		236	0.08%
Total Compensated Absences -due in more than one year	103,157	59	7,347	5,962	2,929	57,519	114,156			6,921	298,049		298,049	100.00%
Net other postemployment benefits obligation (OPEB)⁵														
City of Laguna Beach				10,877		455,752	124,354			16,993	607,975		607,975	10.69%
City of San Clemente			23,221	15,034							38,255		38,255	0.67%
City of San Juan Capistrano	555,817		21,506	14,958	822						593,104		593,104	10.43%
Emerald Bay Service District				900		19,597	4,734			700	25,932		25,932	0.46%
El Toro Water District				8,698	678		159,030			31,088	199,495		199,495	3.51%
Irvine Ranch Water District				15,941	1,100					26,269	43,309		43,309	0.76%
Moulton Niguel Water District	312,695	497,461	16,416	33,051	4,074	53,219	1,597,620			37,721	2,552,258		2,552,258	44.87%
South Coast Water District	437,371		15,566	24,856	1,060	486,366	87,356			7,554	1,060,131		1,060,131	18.64%
Santa Margarita Water District	393,704	97,683	41,067	31,353	3,272						567,080		567,080	9.97%
Trabuco Canyon Water District					1,012						1,012		1,012	0.02%
Total OPEB	1,699,587	595,144	117,777	155,668	12,019	1,014,935	1,973,095			120,326	5,688,551		5,688,551	100.00%
Net Pension Liability⁵														
City of Laguna Beach				27,460		1,150,609	313,950			42,901	1,534,919		1,534,919	10.69%
City of San Clemente			58,624	37,956							96,580		96,580	0.67%
City of San Juan Capistrano	1,403,239		54,296	37,764	2,076						1,497,375		1,497,375	10.43%
Emerald Bay Service District				2,273		49,476	11,953			1,768	65,469		65,469	0.46%
El Toro Water District				21,958	1,712		401,494			78,487	503,652		503,652	3.51%
Irvine Ranch Water District				40,245	2,777					66,319	109,341		109,341	0.76%
Moulton Niguel Water District	789,443	1,255,910	41,445	83,443	10,286	134,360	4,033,417			95,233	6,443,537		6,443,537	44.87%
South Coast Water District	1,104,205		39,300	62,752	2,676	1,227,901	220,543			19,072	2,676,449		2,676,449	18.64%
Santa Margarita Water District	993,961	246,614	103,681	79,155	8,261						1,431,672		1,431,672	9.97%
Trabuco Canyon Water District					2,555						2,555		2,555	0.02%
Total Net Pension Liability	4,290,849	1,502,524	297,346	393,006	30,344	2,562,346	4,981,357			303,780	14,361,551		14,361,551	100.00%
Total Noncurrent Liabilities	6,093,593	2,097,727	422,470	554,636	45,291	3,634,799	7,068,608			431,027	20,348,151		20,348,151	
Total LIABILITIES	286,781	7,990,098	2,097,813	559,737	623,286	173,201	5,141,238	8,772,776	10,264	476,805	26,132,000		26,132,000	

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01														
Deferred Inflows														
Pensions related deferred inflows of resources⁵														
City of Laguna Beach				2,232		93,541	25,523			3,488	124,785		124,785	10.69%
City of San Clemente			4,766	3,086							7,852		7,852	0.67%
City of San Juan Capistrano	114,080		4,414	3,070	169						121,733		121,733	10.43%
Emerald Bay Service District				185		4,022	972			144	5,322		5,322	0.46%
El Toro Water District				1,785	139		32,640			6,381	40,946		40,946	3.51%
Irvine Ranch Water District				3,272	226					5,392	8,889		8,889	0.76%
Moulton Niguel Water District	64,180	102,102	3,369	6,784	836	10,923	327,906			7,742	523,842		523,842	44.87%
South Coast Water District	89,769		3,195	5,102	218	99,825	17,930			1,551	217,588		217,588	18.64%
Santa Margarita Water District	80,806	20,049	8,429	6,435	672						116,391		116,391	9.97%
Trabuco Canyon Water District					208						208		208	0.02%
Total Pensions related deferred inflows of resources	348,834	122,151	24,173	31,950	2,467	208,312	404,971			24,696	1,167,555		1,167,555	100.00%
OPEB related deferred inflows of resources⁵														
City of Laguna Beach				786		32,948	8,990			1,229	43,953		43,953	10.69%
City of San Clemente			1,679	1,087							2,766		2,766	0.67%
City of San Juan Capistrano	40,183		1,555	1,081	59						42,878		42,878	10.43%
Emerald Bay Service District				65		1,417	342			51	1,875		1,875	0.46%
El Toro Water District				629	49		11,497			2,248	14,422		14,422	3.51%
Irvine Ranch Water District				1,152	80					1,899	3,131		3,131	0.76%
Moulton Niguel Water District	22,606	35,964	1,187	2,389	295	3,847	115,500			2,727	184,515		184,515	44.87%
South Coast Water District	31,620		1,125	1,797	77	35,162	6,315			546	76,642		76,642	18.64%
Santa Margarita Water District	28,463	7,062	2,969	2,267	237						40,997		40,997	9.97%
Trabuco Canyon Water District					73						73		73	0.02%
Total OPEB related deferred inflows of resources	122,871	43,026	8,515	11,254	869	73,375	142,645			8,699	411,253		411,253	100.00%
Total Deferred Outflows Inflows	471,706	165,177	32,688	43,204	3,336	281,686	547,615			33,395	1,578,808		1,578,808	
NET POSITION														
Invested in Capital Assets	42,548	40,298,695		856,505	2,758	40,524,072	45,863,952	2,603,346	3,767,989	57,144	134,017,009	3,636,900	137,653,909	
Unrestricted (deficit)	901	(689,541)	(1,844,135)	(145,277)	(482,400)	(37,312)	1,644,385	931,868	587,459	(7)	(154,036)	(188,095)	(188,095)	
Total NET POSITION	\$43,449	\$39,609,154	(\$1,844,135)	\$711,228	(\$479,642)	(\$37,312)	\$42,168,457	\$46,795,820	\$3,190,804	\$3,767,982	(\$96,892)	\$133,828,914	\$3,636,900	\$137,465,814

Agenda Item

4g

Board of Directors Meeting

Meeting Date: December 17, 2020

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Jim Burror, Director of Operations
SUBJECT: October 2020 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 calculations 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

5) Pretreatment Report

Fiscal impact

No change.

Recommended Action: Receive and file the Operational Reports.

Monthly Operational Report

SOCWA Operational Report October, 2020

Excursion, Complaint, and Violation Event

Events	CTP	RTP	JBL	Totals
Odor	0	0	0	0
Noise	0	0	1(1)	1
Spills	0	0	0	0
Violations	0	1(2)	0	1
Others	0	0	0	0

(1) A new resident inquired about vehicles entering JBL after 5 PM.

(2) The engine at RTP had a NOx exceedance due to continuing catalyst box issues.

Plant Wastewater Billing Characteristics

Key Parameters	CTP	RTP	JBL TP1	JBL TP2	Totals
Influent (mgd) (1)	2.39	7.75	5.87	1.25	17.25
Effluent (mgd)	2.16	1.84	5.87	ND(2)	9.88
Peak Flow (mgd)	8.62	20.12	12.55	ND(2)	41.29
Influent BOD (mg/l)	189	250	295	ND(2)	
Influent TSS (mg/l)	356	301	609	ND(2)	
Effluent BOD (mg/l)	6.3	4.4	7.8	ND(2)	
Effluent TSS (mg/l)	7.0	5.9	7.5	ND(2)	
Effluent Turbidity (NTU)	3.4	3.1	3.0	ND(2)	

(1) CTP Influent value does not include AWT backwash in this table.

(2) No discharge from Plant 2 due to construction project.

Recycled Water (AWT) Operations

Key Parameters	CTP	RTP	JBL	Totals
Average Flow (mgd)	0.89	5.91		6.80
Days of Operation (days)	29	31		
Total Flow (million gallons)	27.7	183.1		210.8
Plant Irrigation (million gallons)	0.00	0.09	0.22	
AWT Time Online (%)	100.0	99.6		

Wastewater Unit Definitions

mgd = million gallons per day

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

NTU = Nephelometric Turbidity Units

SOCWA Operational Report October, 2020 (cont'd)

Biosolids Management

Biosolids Management Site	CTP	RTP	JBL	Totals
Synagro Compost (tons)		815.0	0.0	815.0
Nursery Products (tons)		425.8	799.5	1,225.3
Prima Deshecha (tons)		NA	NA	0.0
Other: (tons)		0.0	0.0	0.0
Total Processed (tons)		1,240.8	799.5	2,040.3

Summary of Maintenance Activities

Task Type	CTP	RTP	JBL	Totals
Preventative Maintenance	167	399	248	814
Corrective Maintenance	20	41	21	82

Site Visitors

Visitor Types	CTP	RTP	JBL	Totals
Regulatory	0	1	0	1
Member Agency	0	0	0	0
Residents	0	0	0	0
Others	5	4	3	12
Tours #/Visitors	0	0	0	0

Grit Disposal Management

Grit & Screenings	CTP	RTP	JBL	Totals
Simi Valley Landfill (tons)	12.0	NA	NA	12.0

Chemical and Energy Utilization

Chemical/Utility	CTP	RTP	JBL	Totals
Ferric Chloride (tons)	NA	NA	NA	0.0
Utility Power Purchase (kWh)	199,576	285,361	NA	484,937
Cogen Power (kWh)		340,218	434,540	774,758
Natural Gas (Dth)	2	NA	1,567	1,569
Digester Gas to Engine (scfm)		4,847,984	5,051,312	9,899,296
Digester Gas to Boiler (scfm)		0		0
Digester Gas to Flares (scfm)		4,906,842	443,098	5,349,940
Digester Gas Power Savings		\$34,684		

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

Wastewater Unit Definitions

kWh = kilowatt hours

Dth = Dekatherms

scfm = standard cubic feet per minute

SOCWA Operational Report October, 2020 (cont'd)

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

Agency	CTP (mgd)	CTP (%)	RTP (mgd)	JBL (mgd)	JBL (%)	Total (mgd)
CLB	1.574	62.75%				1.57
EBSB	0.095	3.80%				0.10
SCWD	0.839	33.45%		1.962	27.54%	2.80
MNWD	0.000	0.00%	7.75	1.400	19.66%	9.15
CSJC				2.111	29.64%	2.11
SMWD				1.649	23.16%	1.65
Total	2.508	100.00%	7.75	7.122	100.00%	17.38

Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	SJCOO Meter (mgd)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB				1.57	23.61%	1.57	
EBSB				0.10	1.43%	0.10	
SCWD	2.16	20.57%		0.38	5.68%	2.54	Includes Desalters
MNWD	1.59	15.14%		1.84	27.63%	3.43	
ETWD				1.84	27.55%	1.84	Direct Outfall Only
CSJC	2.49	23.70%				2.49	Includes Desalter
SMWD	1.84	17.46%				1.84	Includes Chiquita
CSC	2.43	23.12%				2.43	Direct Outfall Only
IRWD				0.94	14.11%	0.94	Direct Outfall Only
Total	10.52	100.00%	9.99	6.67	100.00%	17.18	

SOCWA Operational Report October, 2020 (cont'd)

FY Flow/Solids Summary-Billing

Project Committee No. 2 Liquids (JBL)

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)(1)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CSJC	4.00	30.77%	2.070	33.06%	2.111	29.64%	2.14	30.50%
MNWD	3.00	23.08%	1.400	22.36%	1.400	19.66%	1.40	20.00%
SCWD	3.75	28.85%	1.691	27.01%	1.962	27.54%	1.87	26.64%
SMWD	2.25	17.31%	1.100	17.57%	1.649	23.16%	1.60	22.86%
Total	13.00	100.00%	6.261	100.00%	7.122	100.00%	7.00	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%	5,706	27.34%	5,954	21.02%	5,950	27.06%
MNWD	8,340	21.62%	3,859	18.49%	6,588	23.26%	5,748	26.14%
SCWD	7,715	20.00%	5,181	24.83%	8,022	28.32%	5,854	26.62%
SMWD	10,946	28.38%	6,122	29.34%	7,761	27.40%	4,436	20.17%
Total	38,573	100.00%	20,868	100.00%	28,325	100.00%	21,989	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%	2.867	23.61%	2.432	23.12%		
CSJC	11.08%	2.460	20.26%	2.493	23.70%	2.11	29.64%
MNWD(3)	15.51%	2.115	17.42%	1.593	15.14%	1.40	19.66%
SCWD	12.47%	1.845	15.20%	2.164	20.57%	1.96	27.54%
SMWD	44.32%	2.855	23.51%	1.837	17.46%	1.65	23.16%
Total	100.00%	12.142	3.10%	10.519	100.00%	7.12	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 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.

SOCWA Operational Report October, 2020 (cont'd)

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	2.308	22.60%		
CSJC	2.437	23.86%	2.14	30.50%
MNWD	1.669	16.35%	1.40	20.00%
SCWD	2.068	20.25%	1.87	26.64%
SMWD	1.729	16.93%	1.60	22.86%
Total	10.210	100.00%	7.00	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%	1.620	60.25%	1.574	62.75%	1.672	61.74%
EBSD	0.20	2.99%	0.050	1.86%	0.095	3.80%	0.112	4.13%
SCWD	2.00	29.85%	1.019	37.90%	0.839	33.45%	0.924	34.13%
MNWD	1.96	29.25%	0.000	0.00%	0.000	0.00%	0.000	0.00%
Total	6.70	100.00%	2.689	100.00%	2.508	100.00%	2.708	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	0.01422	0.187%	0.0000	0.0141	0.0141	0.18%	0.0155	0.20%
EBSD	0.00044	0.006%	0.0000	0.0009	0.0009	0.01%	0.0010	0.01%
SCWD	0.00893	0.118%	0.0000	0.0075	0.0075	0.10%	0.0084	0.11%
ETWD	0.01411	0.186%	0.0000	0.0166	0.0166	0.21%	0.0160	0.20%
MNWD	7.55200	99.503%	7.7471	0.0654	7.8125	99.50%	7.8036	99.48%
Total	7.58970	100.000%	7.7471	0.1044	7.8515	100.00%	7.8446	100.00%

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

SOCWA Operational Report October, 2020 (cont'd)

FY Flow/Solids Summary (cont'd)

Project Committee No. 17 Solids (RTP)

Agency	Own (lbs/d)	Own (%)	Budget (lbs/d)	Budget (%)	Total Month (lbs)	Total Month (%)	FY Avg Total to Date (lbs)	FY Avg Total to Date (%)
CLB	5,605	11.22%	5,770	15.34%	148,167	13.49%	151,559	14.88%
EBSD	295	0.59%	5,701	15.15%	8,982	0.82%	10,110	0.99%
SCWD	4,480	8.96%	180	0.48%	78,985	7.19%	83,070	8.16%
ETWD	10,200	20.41%	22,346	59.39%	174,647	15.90%	157,597	15.48%
MNWD	29,395	58.82%	3,626	9.64%	687,443	62.60%	616,010	60.49%
Total	49,975	100.00%	37,623	100.00%	1,098,224	100.00%	1,018,347	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%	1.574	23.61%	1.672	28.16%
EBSD	0.780%	0.05	0.47%	0.095	1.43%	0.112	1.88%
ETWD	16.302%	2.46	23.08%	1.836	27.55%	1.513	25.48%
IRWD	15.760%	2.48	23.26%	0.940	14.11%	1.035	17.43%
MNWD	43.848%	3.08	28.89%	1.842	27.63%	1.448	24.39%
SCWD	12.310%	0.70	6.57%	0.379	5.68%	0.158	2.66%
Total	100.000%	10.66	100.00%	6.666	100.00%	5.938	100.00%

SOCWA Operational Report October, 2020

Select Critical Equipment Repairs

JBL - PC2

Installed a new baffle on 4-Side Grit Tank, which had become severely corroded.
Installed a new airline tie-in and replaced all corroded covers with new covers for 4 Side Grit Tank.

Fabricated new piping for a broken process water line, which had failed.

Replaced Centrifuge #2 sludge feed piping in order to fill in an unnecessary pipe vault.

Fabricated a new baffle for the Scum Pit, which had deteriorated from corrosion.

Repaired and installed new flights, wear strips, and rails for the 4-Side Secondary Tanks.

Installed security fencing along the western wall between SCWD and SOCWA due to unauthorized entries to JBL.

Replaced Waste Gas Burner condensate piping due to corrosion and clogging issues.

Recoated the Scum Pit, which had become deteriorated due to corrosion.

Refurbished the JBL 4-Side Vulcan bar screen due to excessive wear of rotating assemblies.

CTP - PC15

Removed and replaced the East and Center Grit Augers, and all the associated plumbing, that was beyond the end of its useful lives.

Replaced the failed East Aeration Tank flowmeters.

Assisted the contractor in replacing failing headworks fresh air supply fans.

Rebuilt the carburetor on the CTP Tow Motor, which had a diaphragm failure.

RTP - PC17

Installed new check valves with air shocks on Grit Pumps Nos. 1 and 2 to lessen water hammer effects damaging equipment.

Replaced a leaking bleach line going for the Chlorine Contact Tank.

Removed and replaced old Grit Separator that was past its useful life.

Replaced hazy sight glass on Scrubber #2.

Troubleshoot and replaced broken wye for Grit Pump #6, which had failed due to water hammer.

Swapped out H₂S media due to breakthrough.

Fabricated new digester recirculation pump discharge piping with bleed off and temperature ports to improve system operation.

Rebuilt failed aeration panels in Aeration Tank #2.

Reinstalled Emergency Interstage Pumps 1 and 2 while completely overhauling Pump #3 to prepare for the upcoming winter peak flows.

Support Services - ALL PC'S

Installed and tested new Man-Down/Lone-Worker alarms at all three treatment plants.

Troubleshoot Bar Screen alarms at JBL.

Troubleshoot Waste Gas Burner not turning on with preset setpoints at JBL.

Troubleshoot SET Pump low flow alarm not calling out at RTP.

Troubleshoot Cogen failure involving Uninterruptible Power Supply at JBL.

Troubleshoot QNAPS not functioning properly at both JB Latham and RTPs.

SOCWA Operational Report October, 2020 (cont'd)

Select Critical Equipment Repairs (cont'd)

Support Services - ALL PC'S (cont'd)

Performed repairs on AWT Supply Pumps Nos. 1 and 2 electrical connections at CTP.
Replaced Building #30 exhaust fan and fan motor, which had failed at CTP.
Replaced failing overload for Blower #1 at CTP.
Replaced failing DAFT air compressor pressure switch at CTP.
Installed conduit and wiring for replacement air compressor at CTP.
Calibrated both turbidity units, which had failed at CTP.
Replaced failed Scrubber #3 ORP probe at RTP.
Troubleshoot power issue for RAS flowmeter at RTP.
Troubleshoot Primary Scum Skimmer, which wouldn't run in hand mode at RTP.
Repaired Final CL2 Analyzer Flowmeter. which had become inaccurate at RTP.
Replaced 4-Side Washpress solenoid, which had become corroded at JBL.
Replaced failed DO Probe for Aeration Tank #5 at JBL.
Troubleshoot unexpected Cogen shutdown due to air leak at JBL.

Items with a (*) have been identified as preventable repairs.

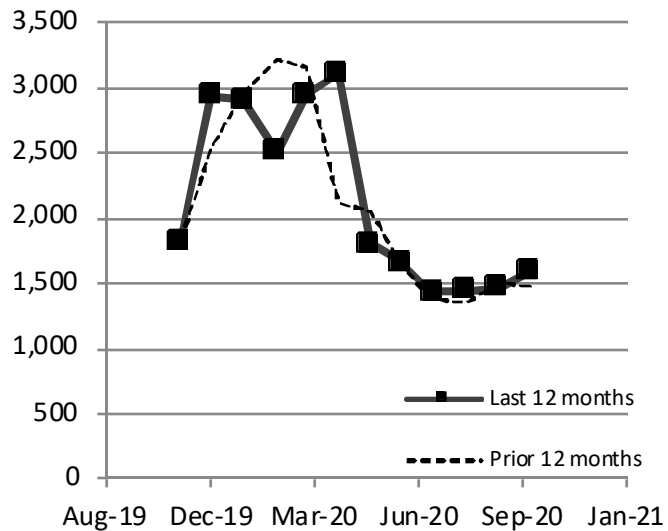
SOCWA Ocean Outfall Discharges by Agency

SOCWA Outfall Discharge Report October, 2020

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.57	23.61%	1.57
EBSD			0.10	1.43%	0.10
SCWD	2.16	20.57%	0.38	5.68%	2.54
MNWD	1.59	15.14%	1.84	27.63%	3.43
ETWD			1.84	27.55%	1.84
CSJC	2.49	23.70%			2.49
SMWD	1.84	17.46%			1.84
CSC	2.43	23.12%			2.43
IRWD			0.94	14.11%	0.94
Total	10.52	100.00%	6.67	100.00%	17.18
or Acre-Foot per year equivalent					19,247

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

Oct-20	1,586
Sep-20	1,462
Aug-20	1,445
Jul-20	1,434
Jun-20	1,663
May-20	1,801
Apr-20	3,107
Mar-20	2,952
Feb-20	2,511
Jan-20	2,911
Dec-19	2,937
Nov-19	1,823
Total	25,631



Beach / Ocean Monitoring Report

Unified Beach Monitoring

#1

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: October 2020
 REPORT DUE: December 1 2020
 SAMPLE SOURCE: Surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: Low Tide 0511

Weather: Partly Cloudy

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	10/06/20	909	10	<10	<2	None	None	None	None	Green	64	Clear		
S4	10/06/20	845	20	<10	<2	None	None	None	None	Green	64	Clear		
S5	10/06/20	830	<10	<10	<2	None	None	None	None	Green		Clear		
S6	10/06/20	815	<10	<10	<2	None	None	None	None	Green		Clear		
WEST	10/06/20	811	<10	<10	2	None	None	None	None	Green		Clear		
S7	10/06/20	809	<10	<10	2	None	None	None	None	Green		Clear		
S8	10/06/20	752	<10	<10	2	None	None	None	None	Green		Clear		
S9	10/06/20	746	<10	<10	2	None	None	None	None	Green	64	Clear		
ACM1	10/06/20	744	<10	<10	<2	None	None	None	None	Green	66	Clear		
S10	10/06/20	730	<10	<10	<2	None	None	None	None	Green		Clear		
S11	10/06/20	725	<10	10	4	None	None	None	None	Green		Clear		
S12	10/06/20	710	<10	<10	<2	None	None	None	None	Green		Clear		

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.

Unified Beach Monitoring

#2

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: October 2020
 REPORT DUE: December 1, 2020
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 0725

Weather: Clear

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	10/12/20	935	<10	<10	<2	None	None	None	None	Green	66	Clear		
S4	10/12/20	920	<10	<10	<2	None	None	None	None	Green		Clear		
S5	10/12/20	855	<10	10	8	None	None	None	None	Green		Clear		
S6	10/12/20	840	<10	<10	<2	None	None	None	None	Green		Clear		
WEST	10/12/20	835	<10	<10	<2	None	None	None	None	Green		Clear		
S7	10/12/20	830	<10	<10	2	None	None	None	None	Green	66	Clear		
S8	10/12/20	815	30	20	<2	None	None	None	None	Green		Clear		
S9	10/12/20	812	<10	<10	2	None	None	None	None	Green		Clear		
ACM1	10/12/20	809	<10	20	2	None	None	None	None	Green		Clear		
S10	10/12/20	750	<10	<10	<2	None	None	None	None	Green		Clear		
S11	10/12/20	745	20	<10	6	None	None	None	None	Green		Clear		
S12	10/12/20	735	20	40	<2	None	None	None	None	Green		Clear		

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-Aliso Creek Ocean Outfall

REPORT FOR: October 2020
 REPORT DUE: December 1, 2020
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 1111
 Weather: Partly Cloudy
 COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	10/19/20	940	20	10	2	None	None	None	None	Green	70	Clear		
S4	10/19/20	920	10	<10	2	None	None	None	None	Green	68	Clear		
S5	10/19/20	905	<10	10	2	None	None	None	None	Green		Clear		
S6	10/19/20	850	20	<10	8	None	None	None	None	Green		Clear		
WEST	10/19/20	845	<10	<10	<2	None	None	None	None	Green		Clear		
S7	10/19/20	835	<10	<10	2	None	None	None	None	Green		Clear		
S8	10/19/20	805	<10	100	32	None	None	None	None	Green		Clear		
S9	10/19/20	816	10	<10	2	None	None	None	None	Green	68	Clear		
ACM1	10/19/20	810	<10	20	14	None	None	None	None	Green		Clear		
S10	10/19/20	746	<10	<10	2	None	None	None	None	Green		Clear		
S11	10/19/20	740	10	10	<2	None	None	None	None	Green		Clear		
S12	10/19/20	725	20	<10	2	None	None	None	None	Green		Clear		

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-Aliso Creek Ocean Outfall

REPORT FOR: October 2020
 REPORT DUE: December 1, 2020
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 0817

Weather: Overcast

COMMENTS: This run was split KW S9-S12. CS S3-S8

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	10/28/20	810	40	30	530	None	None	None	None	Green		Clear		
S4	10/28/20	755	10	<10	2	None	None	None	None	Green		Clear		
S5	10/28/20	740	10	<10	<2	None	None	None	None	Green		Clear		
S6	10/28/20	720	10	<10	<2	None	None	None	None	Green		Clear		
WEST	10/28/20	715	10	<10	<2	None	None	None	None	Green		Clear		
S7	10/28/20	710	<10	<10	<2	None	None	None	None	Green		Clear		
S8	10/28/20	705	<10	<10	<2	None	None	None	None	Blue	69	Clear		
S9	10/28/20	0810	<10	<10	<2	None	None	None	None	Green		Turbid		
ACM1	10/28/20	0810	20	<10	<2	None	None	None	None	Green	68	Turbid	Flowing	
S10	10/28/20	0745	<10	<10	<2	None	None	None	None	Green		Turbid		
S11	10/28/20	0740	10	<10	2	None	None	None	None	Green		Turbid		
S12	10/28/20	0730	10	10	6	None	None	None	None	Green		Turbid		

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 Water Quality Sample Station Map – Aliso Creek Ocean Outfall



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

MONITORING REPORT

Off Shore Stations

South Orange County Wastewater Authority

DISCHARGE: Aliso Creek Ocean Outfall

REPORT FOR: October 2020

REPORT DUE: December 1, 2020

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

REPORT FREQUENCY: Monthly

SAMPLING FREQUENCY: Monthly

TYPE OF SAMPLE: Grab

Comments: Low Tide 0508

Sta No.	Sample Depth	Sample Date	Total Coliform	Fecal Coliform	Enterococcus	Sample Time	Oil & Grease	Sewage Debris	0 - None 1 - Mild 2 - Moderate 3 - Severe
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600				
A-1	Surface	10/07/20	2	<2	4	738	0	0	
A-1	Mid depth	10/07/20	<10	<10	<10				
A-2	Surface	10/07/20	<2	<2	<2	727	0	0	
A-2	Mid depth	10/07/20	10	20	<10				
A-3	Surface	10/07/20	<2	<2	<2	730	0	0	
A-3	Mid depth	10/07/20	<10	<10	<10				
A-4	Surface	10/07/20	<2	<2	<2	742	0	0	
A-4	Mid depth	10/07/20	10	<10	<10				
A-5	Surface	10/07/20	<2	<2	<2	736	0	0	
A-5	Mid depth	10/07/20	<10	<10	<10				
B-1	Surface	10/07/20	<2	<2	<2	718	0	0	
B-1	Mid depth	10/07/20	20	<10	<10				
B-2	Surface	10/07/20	<2	<2	4	750	0	0	
B-2	Mid depth	10/07/20	30	10	<10				
N1	Surface	10/07/20	<2	<2	<2	806	0	0	
N2	Surface	10/07/20	4	<2	<2	805	0	0	
N3	Surface	10/07/20	<2	<2	<2	804	0	0	
N4	Surface	10/07/20	<2	<2	<2	803	0	0	
N5	Surface	10/07/20	6	2	<2	802	0	0	
N6	Surface	10/07/20	<2	2	2	800	0	0	
N7	Surface	10/07/20	2	<2	<2	757	0	0	

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

**Compliance Summary Report
Aliso Creek Ocean Outfall 2020**

ACOO Permit Order No. R9-2012-0013

Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
No violations during this monitoring period.							

SOCWA and MEMBER AGENCY FACILITIES ACOO Spill / Overflow Report Log - 2020 Order No. R9-2012-0013 ~ NPDES Permit No. CA0107611

Reporting Agency	Responsible Agency	Estimated Volume (Gallons)	Type of Discharge	Location/Comments	Receiving Waters	Date Reported To State	Date Resolved
SOCWA	ETWD	201,835	Secondary Effluent	The El Toro Water District was notified by the golf course of the location of the spill on Thursday 3/5/20. ETWD staff was assessing the water quality of the sample as ETWD staff initially thought it was irrigation water or possibly a potable or recycled water line. SOCWA staff was notified at 1:55pm on 3/9/20 that the water leak could be coming from the effluent transmission main. The cause of the spill was due to a crack in the techite pipe. SOCWA staff arrived onsite on 3/9/2020 and worked with ETWD and IRWD on spill containment to prevent further spilling offsite. At approximately 8pm on 3/9/20, the spill volume was directed back to sewer system and additional offsite flow was reduced to 0.8gpm until construction crews could arrive onsite in the morning to excavate the soil for repair of the line break. SOCWA staff also worked with ETWD and IRWD to reduce the flow to the line so that repairs could occur. The spill was stopped at 1030am.	Veeh Creek	3/9/2020	3/10/2020
SOCWA	SOCWA	2,000	Secondary treated with chlorination.	Root intrusion was the cause found through excavation of the 2 inch line break located below 5 ft of the surface. The soil around the break captured the majority of the spill. Additional spill volumes was captured by a storm water pump station with a 2.5 MGD pump and returned to the plant. Samples were taken at the spill location. Sulphur Creek was flowing at 1cfs, thus diluting the spill instantly into the runoff dominated stream.	Sulpur Creek	Initial report 8/16/20 and final report 8/20/20.	8/17/2020

REPORT FOR: October 2020
 REPORT DUE: December 1, 2020
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: Low Tide 0519

Weather: Overcast

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S0	10/07/20	735	20	20	32	None	None	None	None	Green		Turbid		
S1	10/07/20	745	20	20	52	None	None	None	None	Green		Turbid		
S2	10/07/20	720	20	<20	4	None	None	None	None	Green	66	Turbid		
DSB5	10/07/20	715	40	40	42	None	None	None	None	Green		Turbid		
S3	10/07/20	748	<20	<20	94	None	None	None	None	Green		Turbid		
DSB4	10/07/20	749	20	<20	74	None	None	None	None	Green		Turbid		
S5	10/07/20	800	<20	<20	22	None	None	None	None	Green	67	Turbid		
DSB1	10/07/20	810	<20	<20	4	None	None	None	None	Green		Turbid		
SJC1	10/07/20	738	100	<100	10	None	None	None	None	Green		Turbid		200

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: October 2020
 REPORT DUE: December 1, 2020
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 0748

Weather: Clear

COMMENTS:

STA#	DATE	TIME	Total Coliform	Fecal Coliform	Enterococcus	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600	Onshore	Offshore							
S0	10/13/20	757	<20	<20	4	None	None	None	None	Green		Slightly Turbid		
S1	10/13/20	810	<20	<20	2	None	None	None	None	Green	60	Slightly Turbid		
S2	10/13/20	747	<20	<20	18	None	None	None	None	Green		Slightly Turbid		
DSB5	10/13/20	737	<20	<20	28	None	None	None	None	Green		Slightly Turbid		
S3	10/13/20	814	<20	<20	6	None	None	None	None	Green		Slightly Turbid		
DSB4	10/13/20	816	20	<20	4	None	None	None	None	Green		Slightly Turbid		
S5	10/13/20	825	<20	<20	2	None	None	None	None	Green	60	Slightly Turbid		
DSB1	10/13/20	835	<20	20	18	None	None	None	None	Brown	61	Turbid		
C1	10/13/20	800	<100	<100	<10	None	None	None	None	Green		Slightly Turbid		

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: October 2020
 REPORT DUE: December 1, 2020
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: Low Tide 0532

Weather: Overcast

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S0	10/21/20	0813	<20	<20	20	None	None	None	None	Green	70	Turbid		
S1	10/21/20	0820	40	<20	32	None	None	None	None	Green		Turbid		
S2	10/21/20	0740	20	<20	36	None	None	None	None	Green		Turbid		
DSB5	10/21/20	0720	80	100	44	None	None	None	None	Green		Turbid		
S3	10/21/20	0825	100	20	20	None	None	None	None	Green		Turbid		
DSB4	10/21/20	0825	20	60	20	None	None	None	None	Green		Turbid		
S5	10/21/20	0830	20	<20	20	None	None	None	None	Green		Turbid		
DSB1	10/21/20	0835	80	20	2	None	None	None	None	Green		Turbid		
C1	10/21/20	0813	<100	<100	10	None	None	None	None	Green		Turbid		

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: October 2020
 REPORT DUE: December 1, 2020
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

REPORT FREQUENCY: Monthly
 EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
 SAMPLES COLLECTED BY: SOCWA Lab
 SAMPLES ANALYZED BY: SOCWA Lab

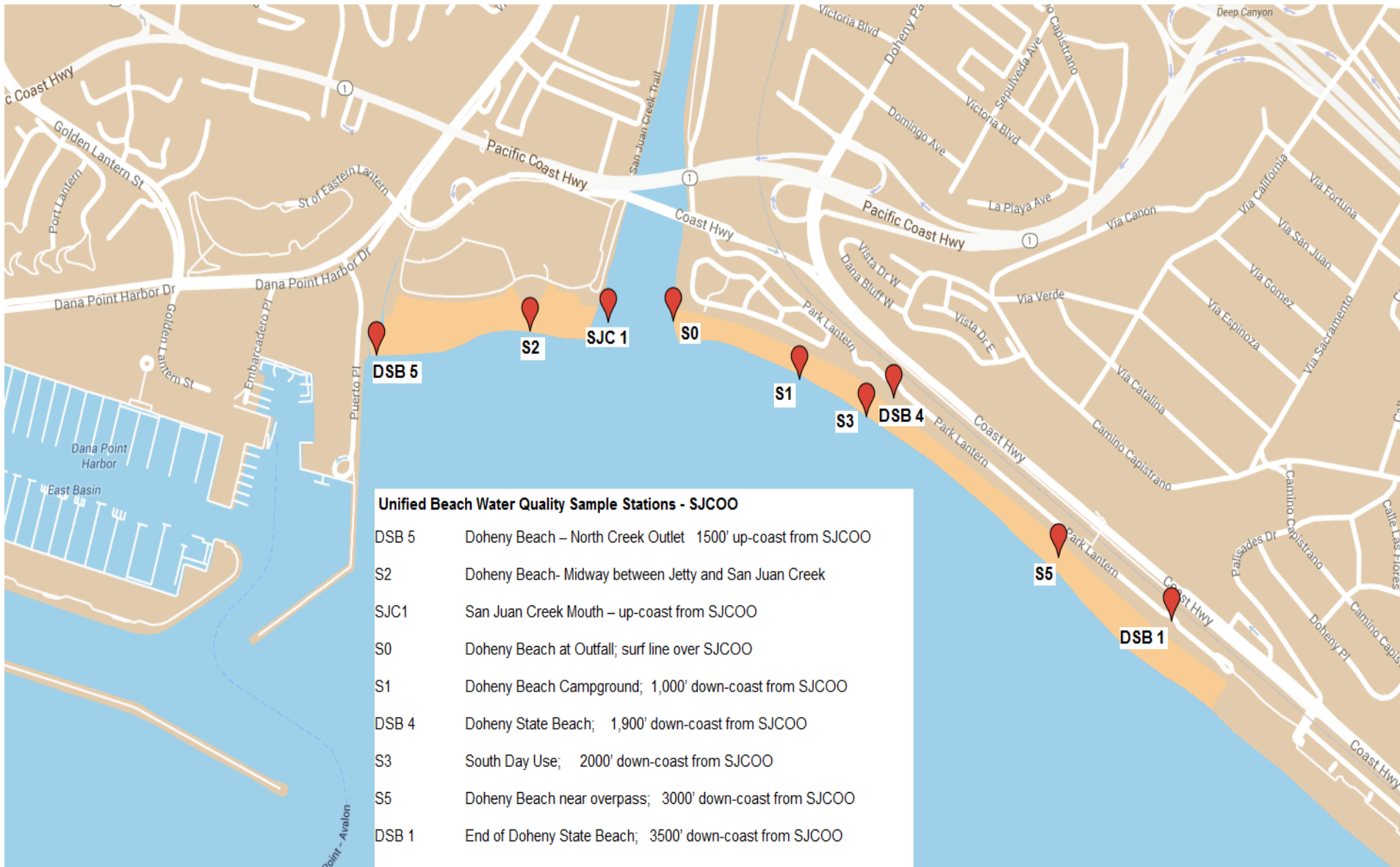
Tidal Condition: High Tide 0734

Weather: Clear

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S0	10/26/20	828	20	20	4	None	None	None	None	Green	62	Turbid		
S1	10/26/20	836	20	20	8	None	None	None	None	Green		Turbid		
S2	10/26/20	820	20	<20	28	None	None	None	None	Green		Turbid		
DSB5	10/26/20	810	40	<20	20	None	None	None	None	Green		Turbid		
S3	10/26/20	840	20	<20	10	None	None	None	None	Green		Turbid		
DSB4	10/26/20	842	40	20	4	None	None	None	None	Green		Turbid		
S5	10/26/20	849	40	<20	10	None	None	None	None	Green		Turbid		
DSB1	10/26/20	855	100	40	6	None	None	None	None	Green	61	Turbid		
C1	10/26/20	830	<100	<100	<10	None	None	None	None	Green		Turbid		

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.



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	Location
DSB 5	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

Offshore

South Orange County Wastewater Authority

DISCHARGE: San Juan Creek Ocean Outfall

REPORT FOR: October 2020

REPORT FREQUENCY: Monthly

REPORT DUE: December 1, 2020

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 0508

Sta No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Enterococcus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris	
A-1	Surface	10/07/20	2	<2	<2	903	0	0	0 - None
A-1	Mid depth	10/07/20	<10	<10	<10				1 - Mild
A-2	Surface	10/07/20	<2	<2	<2	907	0	0	2 - Moderate
A-2	Mid depth	10/07/20	<10	<10	<10				3 - Severe
A-3	Surface	10/07/20	<2	<2	<2	910	0	0	
A-3	Mid depth	10/07/20	<10	<10	<10				
A-4	Surface	10/07/20	<2	<2	<2	917	0	0	
A-4	Mid depth	10/07/20	<10	<10	<10				
A-5	Surface	10/07/20	<2	<2	<2	913	0	0	
A-5	Mid depth	10/07/20	<10	<10	<10				
B-1	Surface	10/07/20	2	<2	<2	855	0	0	
B-1	Mid depth	10/07/20	<10	<10	<10				
B-2	Surface	10/07/20	<2	<2	<2	924	0	0	
B-2	Mid depth	10/07/20	<10	<10	<10				
N1	Surface	10/07/20	6	10	6	846	0	0	
N2	Surface	10/07/20	4	<2	2	844	0	0	
N3	Surface	10/07/20	8	2	2	842	0	0	
N4	Surface	10/07/20	6	<2	<2	837	0	0	
N5	Surface	10/07/20	6	<2	2	835	0	0	
N6	Surface	10/07/20	6	<2	<2	833	0	0	

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

Recycled Water Report

**2020 Compliance Summary Report
Recycled Water Permit**

Waste Discharge Requirement Order 97 - 52

Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
MNWD- 3A	1/6/2020	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	1/17/2020	Manganese	12-Month	mg/L	0.05	0.10	
SOCWA - RTP	1/17/2020	TDS	12-Month	mg/L	1000	1062	
MNWD- 3A	offline	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	2/5/2020	Manganese	12-Month	mg/L	0.05	0.10	
SOCWA - RTP	2/5/2020	TDS	12-Month	mg/L	1000	1042	
SOCWA - CTP	2/5/2020	Manganese	12-Month	mg/L	0.05	0.06	
MNWD- 3A	offline	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	3/3/2020	Manganese	12-Month	mg/L	0.05	0.09	
SOCWA - RTP	3/3/2020	TDS	12-Month	mg/L	1000	1032	
SOCWA - CTP	3/3/2020	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	4/2/2020	Manganese	12-Month	mg/L	0.05	0.10	
SOCWA - RTP	4/2/2020	TDS	12-Month	mg/L	1000	1050	
SOCWA - CTP	4/2/2020	Manganese	12-Month	mg/L	0.05	0.07	
MNWD- 3A	offline	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - CTP	5/13/2020	Coliform	Instantaneous	cfu/100mL	240	961	
SOCWA - RTP	5/1/2020	Manganese	12-Month	mg/L	0.05	0.10	
SOCWA - RTP	5/1/2020	TDS	12-Month	mg/L	1000	1078	
SOCWA - CTP	5/1/2020	Manganese	12-Month	mg/L	0.05	0.07	
MNWD- 3A	Not Reported	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	6/2/2020	Manganese	12-Month	mg/L	0.05	0.10	
SOCWA - RTP	6/2/2020	TDS	12-Month	mg/L	1000	1092	
SOCWA - CTP	6/2/2020	Manganese	12-Month	mg/L	0.05	0.07	
MNWD- 3A	6/22/2020	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	7/8/2020	Manganese	12-Month	mg/L	0.05	0.10	
SOCWA - RTP	7/8/2020	TDS	12-Month	mg/L	1000	1131	
SOCWA - CTP	7/8/2020	Manganese	12-Month	mg/L	0.05	0.07	
MNWD- 3A	7/13/2020	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	8/6/2020	Manganese	12-Month	mg/L	0.05	0.10	
SOCWA - RTP	8/6/2020	TDS	12-Month	mg/L	1000	1141	
SOCWA - CTP	8/6/2020	Manganese	12-Month	mg/L	0.05	0.07	
MNWD- 3A	8/2/2020	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	9/23/2020	Manganese	12-Month	mg/L	0.05	0.11	
SOCWA - RTP	9/23/2020	TDS	12-Month	mg/L	1000	1173	

**2020 Compliance Summary Report
Recycled Water Permit**

SOCWA - CTP	9/23/2020	Manganese	12-Month	mg/L	0.05	0.07	
MNWD- 3A	9/1/2020	Manganese	12-Month	mg/L	0.05	0.07	
MNWD- 3A	9/1/2020	Manganese	12-Month	mg/L	1000	1045	
SOCWA - RTP	10/2/2020	Manganese	12-Month	mg/L	0.05	0.11	
SOCWA - RTP	10/2/2020	TDS	12-Month	mg/L	1000	1150	
SOCWA - CTP	10/2/2020	Manganese	12-Month	mg/L	0.05	0.07	
MNWD- 3A	10/1/2020	Manganese	12-Month	mg/L	0.05	0.07	
MNWD- 3A	10/1/2020	TDS	12-Month	mg/L	1000	1062	
SOCWA - RTP	10/19/2020	Coliform	Instantaneous	MPN/100mL	240	411	

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending: Oct 31, 2020

Constituent	Units	12-month Avg Maximum Permit Limit	TCWD 12-month Average	SMWD Oso 12-month Average	SMWD Chiquita 12-month Average	SMWD Nichols 12-month Average	MNWD-3A 12-month Average	MNWD-RTP 12-month Average	SCWD-CTP 12-month Average ***
TDS	mg/L	1000	939	830	842	919	1,062	1,150	1,007
Chloride	mg/L	375	240	201	132	285	222	253	238
Sulfate	mg/L	400	257	289	232	244	248	345	300
Sodium	mg/L	None	196	150	160	213	170	182	158
Alkalinity	mg/L	None	-	-	-	-	238	268	223
Adjusted SAR	Ratio	None	4.81	4.71	4.96	5.45	4.13	4.24	4.22
Iron	mg/L	0.3	0.022	0.017	0.130	0.000	0.17	0.490	0.131
Manganese	mg/L	0.05	0.012	0.025	0.037	0.017	0.072	0.108	0.070
MBAS	mg/L	0.5	0.04	0.15	0.16	0.28	0.00	0.10	0.10
Boron	mg/L	0.75	0.292	0.333	0.337	0.400	0.40	0.368	0.32
Fluoride	mg/L	None	0.36	0.723	0.58	0.61	0.98	0.83	0.77
Total Organic Carbon	mg/L	None	8.5	12.8	11.9	10.9	6.0	12.0	9.3

*** 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) 2020

Agency	Facility or Region	Jan '20	Feb '20	Mar '20	Apr '20	May '20	Jun '20	Jul '20	Aug '20	Sep '20	Oct '20	Nov '20	Dec '20	Annual Totals
CSJC 1	3-A Plant/MNWD	0.00	0.00	0.00	0.00	7.07	0.00	0.00	0.00	1.65	0.00			8.72
CSJC 2	Chiquita/SMWD	0.02	12.69	9.95	9.10	32.04	35.33	38.15	34.98	32.15	38.22			242.63
CSJC 3	Non-Domestic Wel	8.63	8.63	2.75	6.73	27.41	35.89	68.38	41.91	11.45	0.00			211.78
ETWD	Region 8	26.43	52.97	29.86	59.75	168.02	177.30	218.39	229.55	195.78	167.40			1325.44
IRWD														
4	IRWD - 8	54.89	83.88	50.90	36.29	137.20	145.94	175.99	172.36	184.73	149.06			1191.24
4	IRWD - 9	26.02	46.16	24.48	23.10	77.28	84.69	108.54	104.91	106.51	81.59			683.29
SCWD	SOCWA CTP	22.75	48.17	22.67	39.78	114.47	88.37	145.97	121.00	98.12	84.99			786.29
MNWD	JRP	101.06	197.36	111.65	234.19	535.80	539.51	615.50	605.34	592.66	561.82			4094.88
	3-A Plant	41.27	0.00	0.00	0.00	38.21	141.02	117.82	155.66	121.99	144.41			760.38
5	CTP	1.02	4.83	3.49	8.29	20.47	16.45	17.79	25.63	20.92	8.15			127.04
SMWD	Oso Creek	151.09	137.88	159.15	82.28	152.12	147.36	154.09	153.65	143.09	148.71			1429.40
	Chiquita	64.63	293.17	180.82	132.12	385.36	432.44	509.56	515.91	486.42	484.49			3484.91
	Nichols	1.49	1.46	1.48	1.48	1.59	1.83	2.15	2.30	1.78	1.75			17.32
TCWD	RRWRP	50.40	45.36	38.43	37.68	54.53	50.52	51.05	50.50	41.96	49.24			469.66
TOTALS		549.70	932.55	635.63	670.78	1751.56	1896.64	2223.38	2213.69	2039.21	1919.82			14832.96

- 1 Denotes transfer of recycled water from MNWD (3A Plant) for use in the CSJC service area. Not counted as additional production.
- 2 Denotes recycled water purchased from SMWD Chiquita-WRP used in the CSJC service area. Not counted as additional production.
- 3 Denotes nondomestic groundwater produced from wells used for landscape irrigation.
- 4 IRWD production is from recycled water production, nonpotable water wells, and surface water impoundments
- 5 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

4g

Legal Counsel Review: No

Meeting Date: December 17, 2020

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Katie Greenwood, Source Control Manager

SUBJECT: Monthly Pretreatment Report, October and November 2020
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

SOCWA adopted Pretreatment Ordinance 2020-1 on October 1, 2020. A signed copy was provided to Member Agencies to file and submitted to the San Diego Regional Water Quality Control Board (SDRWQCB) for their files. Member agencies (MAs) should also be in the process of amending their pretreatment ordinances. So far, ETWD, SMWD, and IRWD have adopted the new changes. Red-line marked versions of each MA ordinance showing required changes has been provided to MA Staff. MA Staff should reach out with any questions or concerns. SOCWA also adopted amendments to its Diversion Policy on October 1, 2020. A signed copy was provided to MAs for file and submitted to the RWQCB-SD for their files.

Prior to adoption of the Ordinance and Diversion Policy, State contractors conducted a virtual Pretreatment Compliance Inspection (PCI) of SOCWA's Pretreatment Program on June 15, 2020 with an exit meeting held virtually on July 1, 2020. The inspection portion and issuance of the PCI report is pending due to travel restrictions associated with the pandemic. Under normal circumstances outside of a pandemic, PCI reports are received within 60 days of the exit meeting.

SOCWA Staff provided MA Staff (CSC, SMWD, ETWD, and IRWD) with the appropriate reporting sheets for their influent and effluent data submittals necessary to assist in the production of the annual pretreatment report, which is due to the SDRWQCB by March 1, 2021. As of December 2, 2020, SOCWA staff have received data for seven of the nine treatment plants including SOCWA (JBL, CTP, RTP), SMWD (Chiquita and Oso), IRWD, and CSC.

SOCWA Staff worked with Fuscoe Engineering to complete Stormwater Reports for RTP and CTP to show that on-site infiltration benchmarks can be met under new compliance options associated with the 2018 update to the Stormwater Industrial General Permit. Each report includes on-site hydrology calculations demonstrating that each plant can infiltrate and/or retain the volume of stormwater runoff up to the 85th percentile 24-hour precipitation event based on local, historical precipitation data. SDRWQCB staff are currently reviewing the alternative compliance report for CTP. SDRWQCB has approved the alternative compliance report for RTP pending submittal of an Operation and Maintenance (O&M) Plan associated with the storm drain system including valves. SOCWA staff are also working to complete an O&M Plan for SOCWA's

CTP. SOCWA staff also conducted annual stormwater refresher training for treatment plant personnel which included decision tree guides to assist in maintaining compliance with the IGP through the stormwater season.

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:

IRWD – SWD Permit No. IRWD-4-001 – Beacon Bay Enterprises – A permit modification request to increase the daily flow limit was submitted to SOCWA on December 23, 2019. Site Staff complied with SOCWA’s request to install a sample barrel, continuous flow meter, and flow restrictive device. Installation was confirmed and Permit No. IRWD-4-001 was modified and issued to allow the increase in flow from the site to the sewer on November 28, 2020.

CSC – WD Permit No. CSC-2-010- Custom Flavors – Custom Flavors is expanding its operations to a new location and submitted a WD Permit application on August 11, 2020. The new site is on target to begin production in early January 2021. Staff has drafted a permit for the new location and is aiming to issue the permit mid-December.

SOCWA – NIWD Form No. SOCWA-1-001 – San Juan Basin Authority – Staff submitted a request to modify the form to add an additional discharge location in MNWD’s service area. MNWD Staff granted permission and formal modification of the Form was issued on November 13, 2020.

CSJC – WD Permit No. CSJC-2-001 – Mission Riding Park – SOCWA received a WD Permit Application from Blenheim Facility Management on December 2, 2020. The Application serves as a permit modification request to increase the daily flow limit. The site is proposing to capture process wastewater from stable areas generated during stormwater events and pretreat the wastewater prior to discharge to the sewer. SOCWA Staff is reviewing the information and is aiming to draft the proposed permit modification by mid-December.

Trainings and Committee Meetings Attended

SOCWA Staff continues to attend virtual monthly OC Strike Force Meetings.

On October 20, 2020, Staff attended an EPA hosted webinar titled “Microbiology of Wastewater Treatment - Life in the Aeration Tank: Bacteria, Protozoa and Metazoa”.

On December 2, 2020, Staff attended a "California Ocean Litter Strategy Webinar" hosted by the CA Ocean Protection Council and NOAA.

Inspections

SOCWA Staff is in the process of conducting its required annual site inspections and monitoring/sampling of all SIU/CIU’s in the SOCWA service area. This is a required activity of the SOCWA pretreatment program. The information and data obtained from these required activities will be incorporated into the SOCWA Pretreatment Annual Report.

SMWD – On November 10, 2020 SOCWA Staff conducted the annual inspection and sampling event of Applied Medical’s passivation process (Permit No. SMWD-1-004). The inspection yielded no major new findings and sampling results are pending.

SMWD – On November 10, 2020, SOCWA Staff conducted the annual inspection of Applied Medical’s rubber manufacturing process (Permit No. SMWD-1-003) and performed sampling at Sampling Location 001. Equipment associated with processes connected to Sampling Location 002 are being replaced and sampling is pending finalization of replacement. Further, a new passivation line has been put in place to replace the ultrasonic unit associated with Sampling Location 003. SOCWA Staff plans to inspect the new line when on-site next to perform sampling at Location 002.

IRWD – On November 24, 2020, SOCWA Staff inspected the groundwater remediation Beacon Bay site to verify installation of a flow restrictive device prior to issuance of a permit modification to increase the daily discharge limit.

CSC – On December 1, 2020, Staff conducted a virtual inspection of Custom Flavors new facility to verify processes and procedures prior to permit issuance.

Enforcement

IRWD – Staff issued a notice of non-compliance (NON) on November 28, 2020 to Beacon Bay (WD Permit No. IRWD-4-001) for exceeding the permit flow limit on one day during October 2020 and for failing to report the violation within 24 hours. The flow exceedance happened while site Staff were bringing new wells online in anticipation of being granted a permitted daily discharge allowance. SOCWA has since granted permission to increase the daily discharge flow volume and considers this enforcement action resolved.

SMWD – Staff assisted in drafting a notice of violation (NOV) and letter for issuance to Grandma Lucy’s. Grandma Lucy’s has failed to install a grease control device as mandated after inspection of the facility last February 2020.

Summary of IWS Activities in the SOCWA Service Area - YTD through December 2, 2020

MA IUs	Events	Permits	NIWD	BMPs	FSEs	OSEs	DSEs	Closed	Enforcement	Total IUs
CLB (S)	0	3	2	5	8	111	25	0	0	154
CSC (S)	58	9	35	18	181	1296	58	0	3	1597
CSJC (S)	39	2	27	59	137	1666	38	0	0	1929
ETWD (M)	1	3	87	0	262	132	84	0	0	568
EBS (U)	0	1	0	0	0	0	0	0	0	1
IRWD (S)	30	4	51	21	63	937	24	0	1	1100
MNWD (S)	256	4	123	39	627	2083	200	15	0	3076
SMWD (S)	137	6	19	20	203	774	79	10	4	1106
SCWD (S)	34	7	33	7	148	182	27	0	1	404
TCWD (S)	0	11	0	0	0	33		0	0	44
SOCWA (S)	0	3	1	0	0	0		0	0	4
Totals	555	53	378	169	1629	7214	535	25	9	9983

(S) = SOCWA conducts PT program
(M) = MA conducts PT program /w SOCWA
(U) = Urban Diversion Only

NIWD = Non-industrial Waste Discharger
BMP = Best Management Practices
FSE = Food Service Establishment

YTD = Year to Date
OSE = Other Surveyed Establishment
DSE = Dental Surveyed Establishment

Agenda Item

4h

Board of Directors Meeting

Meeting Date: December 17, 2020

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jason Manning, Director of Engineering

SUBJECT: Capital Improvement Program Status Report

COVID-19 UPDATE:

Currently, all SOCWA Capital Projects are moving forward as planned. We have moved all progress meetings to conference calls and are using electronic communications as much as possible to limit contact with contractors. We are requiring the contractors to practice social distancing and to limit their contact with plant staff.

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

Below are photos of the three major construction projects currently underway at each of the treatment plants. All three projects are in the beginning phases of construction.

JB Latham Package B

Plant 1 Basin Repairs, DAF Rehabilitation, Energy Building seismic retrofit and minor rehabilitation, Digester 4 rehabilitation:

Work continues on the Liquids side of the facility with new valves (left) and installation of new MCCs (right).



Coastal Treatment Plant Facility Improvements

New ferric chloride system, new collection equipment in East Sedimentation basins, concrete repair, structural improvements, new switchgear and numerous electrical upgrades:

Work to rehabilitate basins and channels continues.



Regional Treatment Plant Miscellaneous Improvements 2018

Secondary electrical upgrades and Primary Gallery rehabilitation, installation of access walkway and Energy Building roof:

New polymer mix tanks (left) and Energy Building Equipment Bay ventilation system (right)



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

		Fiscal Year 20/21				Fiscal Year 21/22			
		1st	2nd	3rd	4th	1st	2nd	3rd	4th
3220; 3231; 3287	Package B (Plant 1 Basin Repairs, DAF Rehabilitation, Energy Building seismic retrofit and minor rehabilitation, Digester 4 rehabilitation)	C	C	C	C	C	C		
3350	MCC "M" Replacement Design	D	D						
3221	Electrical System Evaluation	P							
3353	Centrate System Design	D							
4001	Plant Drain System Study		P						
4201	Plant 1 Blower Building Condition Assessment	CA							
4204	Electrical Manhole Condition Assessment	CA	CA						
4214	Solids Management Plan		P	P					
4202	Pipeline Condition Assessment Methodology Evaluation		P	P					
4203	Plant Hydraulic Model and Flow Management Plan	P							
3234	Centrate Piping Reconstruction		B&A	C	C				
3235; 3227	Package D Design				D	D	D	D	
3285	Main Plant Drain Line Reconstruction			B&A	C	C			
42211	Influent Flow Metering Evaluation		P	P					
42212	Plant 1 Grit Handling Evaluation		P	P					
42213	Chlorine Contact Basin/Effluent Pump Station Condition Assessment		CA						
42214	Dana Point Influent Sewer Condition Assessment		CA	CA					
42215	Plant 1 Influent Sewer Condition Assessment		CA	CA					
42216	Plant 1 Bypass Sewer Condition Assessment		CA	CA					
4211	Site Storage Evaluation			P	P				
3229	Drainage Pump Station Reconstruction			B&A	C	C			
4212	Buried Utility Master Plan			P	P				
4213	Electrical Conduit and Cable Master Plan			P	P				
3227	Plant 2 Upgrades, Dewatering System Reconstruction, Gas Flare								B&A

P	Planning	D	Design
CA	Condition Assessment	B&A	Bidding and Award
ENV	Environmental/Permitting	C	Construction

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

		Fiscal Year 20/21				Fiscal Year 21/22			
		Quarter	1st	2nd	3rd	4th	1st	2nd	3rd
3525	Personnel Building Reconstruction		B&A	C					
3539	Facility Improvements Construction (Basin and Electrical rehabilitation)	C	C	C	C	C			
3541	Export Sludge System Reconstruction		B&A	C	C	C	C		
3553	Plant Drainage Improvements		B&A	C	C				
4501	Electrical Manhole/Cable Assessment		CA	CA					
4502	Building Roof Condition Assessment		CA	CA					
3542	South Section Embankment Protection	ENV	ENV	ENV	ENV				
45221	Foul Air System Condition Assessment		CA						
45211	Plant Reconfiguration Feasibility Study	P	P	P					
35222	Aeration Upgrade Construction				D	B&A	C	C	C
35223	Chlorine Contact Basin Gates		D	B&A	C				
35221	Auxiliary and Maintenance Building Roofs				B&A	C	C		
3543	Export Sludge Pipeline Replacement at RTP				B&A	C	C		
45222	Spatial Utilization Analysis			P	P				

P	Planning	D	Design
CA	Condition Assessment	B&A	Bidding and Award
ENV	Environmental/Permitting	C	Construction

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

		Fiscal Year 20/21				Fiscal Year 21/22			
		1st	2nd	3rd	4th	1st	2nd	3rd	4th
3701; 3769; 3751	Miscellaneous Improvement 2018 (Secondary electrical upgrades and Primary Gallery rehabilitation, installation of access walkway and Energy	C	C	C					
3753	Aeration Diffuser Upgrade		B&A	C	C				
3742	Aeration System Upgrades (blowers, gates, & controls)			D	D	B&A	C	C	C
3757	Miscellaneous Safety Imps - Liquids					B&A	C	C	C
3776	Effluent Pond Gate Replacement					B&A	C	C	C
3758	AWT No. 2 Reconstruction					B&A	C	C	C
3759	AWT No. 2 Electrical Upgrades					B&A	C	C	C
3766	AWT Hypochlorite Tanks Shade					B&A	C	C	
3773	Cogeneration System Modifications		D	B&A	C	C			
4704	Evaluate Plant and Storm Water Drainage System	P	P						
4703	Laboratory Reconstruction Evaluation		P	P					

P	Planning	D	Design
CA	Condition Assessment	B&A	Bidding and Award
ENV	Environmental/Permitting	C	Construction

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

		Fiscal Year 20/21				Fiscal Year 21/22			
Quarter		1st	2nd	3rd	4th	1st	2nd	3rd	4th
17087	Odor Control Chemical Tank					C			
17088	Primary Sedimentation Condition Assessment					CA			
37001; 37002; 3779	MCC A, C, G, H Replacement						B&A	C	C
37002	West Slope Protection			B&A	C	C			
37003	Admin Building Door & Window Repair			B&A	C				
3775	Aeration Basin Handrail Upgrade						B&A	C	C
3776	Effluent Pond Gate Replacement					B&A	C	C	
3777; 3778	Site Lighting Upgrade		B&A	C	C				
4701	Interstage Pump Station Condition Assessment						CA		
4702	Site Storage Evaluation							P	P
37223S	Flare Replacement Project							P	P

P	Planning	D	Design
CA	Condition Assessment	B&A	Bidding and Award
ENV	Environmental/Permitting	C	Construction

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 2(R) - JB LATHAM TREATMENT PLANT CAPITAL PROJECTS
(‘20/’21)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECT LIQUIDS			
3220-000	Package B Liquids (Plant 1 Basin repairs, DAF rehabilitation)	Construction	The construction contract for Package 'B' was awarded at the April 4, 2019, SOCWA Board meeting.
4201-000	Plant 1 Blower Building Condition Assessment	Study	The contract was awarded at the September 5, 2019 SOCWA Board Meeting.
4202-000	Pipeline Condition Assessment Methodology Evaluation	Study	Project delayed due to COVID-19, now scheduled to begin in November 2020.
4203-000	Plant Hydraulic Model and Flow Management Plan	Study	The contract was awarded at the October 3, 2019 SOCWA Board Meeting.
3350-000	Motor Control Center 'M' Replacement (2019)	Design	This project is part of the JBL Electrical System Evaluation project. The contract was awarded at the October 3, 2019 SOCWA Board Meeting.
CAPITAL IMPROVEMENT PROJECT COMMON			
3231-000	Package B Common (Energy Building seismic retrofit and minor rehabilitation)	Construction	The construction contract for Package 'B' was awarded at the April 4, 2019, SOCWA Board meeting.
3221-000	Electrical System Evaluation	Study	This project is part of the JBL Electrical System Evaluation project. The contract was awarded at the October 3, 2019 SOCWA Board Meeting.
4001-000	Plant Drain System Study (2017) (NCP)	Study	TetraTech is proceeding with the mapping of the drain system.
4204-000	Electrical Manhole Condition Assessment	Study	This project is part of the JBL Electrical System Evaluation project. The contract was awarded at the October 3, 2019 SOCWA Board Meeting.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 2(R) - JB LATHAM TREATMENT PLANT CAPITAL PROJECTS
('19/'20)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECT SOLIDS			
3287-000	Package B Solids (Digester 4 rehabilitation)	Construction	The construction contract for Package 'B' was awarded at the April 4, 2019, SOCWA Board meeting.
3353-000	Centrate System Design (2019)	Design	The contract was awarded at the October 3, 2019 SOCWA Board Meeting.
4214-000	Solids Management Plan	Study	Continuing consideration of options pending the results of the Innovative Biosolids project.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 5 - SAN JUAN CREEK OCEAN OUTFALL CAPITAL PROJECTS
('20/'21)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECTS			
3605-000	Junction Structure Rehabilitation Design	Design	An amendment to the Black & Veatch design contract was awarded by PC 5 on July 23, 2020. The Committee also approved award of the Phase I contract to Filanc for minor repairs and constructability review.
3650-000	Junction Structure Reinforcement Permitting and Final Design	Design	Phase II contract ammendment for Filanc was approved by the Board in November 2020. Construction in the Junction Structure is scheduled to begin in Janaury 2021.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 15(R) - COASTAL TREATMENT PLANT CAPITAL PROJECTS
('20/'21)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECTS LIQUIDS			
3539-000	Facility Improvements (Basin and Electrical Rehabilitation)	Construction	The construction contract for Facility Improvements Project was awarded at the June 6, 2019 SOCWA Board meeting. Task 3595-000 has been combined into to this one Task Code.
3534-000	Export Sludge System (1997)	Design	Approval of the California Coastal Commission permit extension and the Public Access Plan is pending. Due to the timing of the permitting and nesting season, the project has been delayed to start in the fall of 2020.
3525-000	Personnel Building Reconstruction (2019)	Bid	Project delayed due to COVID-19, now scheduled to being in December 2020.
3528-000	AWMA Road Sites West 1 and 2 Embankment Protection (2019)	Design	The engineering services contracts were awarded to Tetra Tech and Dudek at the August 8, 2019 SOCWA Board meeting.
3529-000	Aliso Creek Long Term Repair Planning (2019)	Planning	The engineering services contracts were awarded to Tetra Tech and Dudek at the August 8, 2019 SOCWA Board meeting.
3553-000	Plant Drainage Improvements (2017)	Design	TetraTech has completed design. Project expected to advertise for bid in January 2021.
3527-000	Vehicle Storage Building Roof (2019)	Construction	Project completed by Operations staff.
4501-000	Electrical Manhole/Cable Assessment	Study	Project delayed due to COVID-19, now scheduled to being in December 2020.
4502-000	Building Roof Condition Assessment	Study	Project delayed due to COVID-19, now scheduled to being in December 2020.
CAPITAL IMPROVEMENT PROJECT AWT			
3536-000	Chlorine Contact Basin Mixer Construction (AWT) (2019)	Construction	Installation of clearwell pump valves was completed in August 2019. Pilot valve panel was installed in November 2020. This project is now complete.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 17(R) - REGIONAL TREATMENT PLANT CAPITAL PROJECTS
('20/'21)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECT LIQUIDS			
3701-000	Miscellaneous Improvements 2018 (Secondary electrical upgrades and Primary Gallery rehabilitation)	Construction	The construction contract was awarded to Filanc at the May 16, 2019 SOCWA Board meeting. Tasks 3702-000, 3730-000, 3784-000, 3785-000, and 3786-000 have been combined into to this one Task Code.
3752-000	AWT No.2 Upgrade Design (2017)	Hold	The design by Carollo is completed. MNWD has requested that this project be delayed pending studies and further evaluation by MNWD.
3758-000	AWT No.2 Upgrade Construction	Hold	A small portion of this project will be completed this year to maintain operation of the AWT
3759-000	AWT No.2 Electrical Upgrades	Hold	A small portion of this project will be completed this year to maintain operation of the AWT
3741-000	Southwest Influent Sewer and Manhole Design (2019)	Hold	The draft RFP for this item will be presented to the Engineering Committee after completion of the Moulton Niguel Water District design.
4008-000	Effluent Equalization Pond and Gate Condition Assessment (2017) (NCP)	Condition Assessment	Due to weather and COVID-19, this will be delayed until Winter of 2020

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 17(R) - REGIONAL TREATMENT PLANT CAPITAL PROJECTS
(‘19/’20)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECT COMMON			
3769-000	Trailer Drain Line	Construction	This is the common portion of the Miscellaneous Improvement 2018 project. The construction contract was awarded to Filanc at the May 16, 2019 SOCWA Board meeting.
3744-000	Administration Building Repair Design (2019)	Design	This project has been awarded to Tetra Tech.
3745-000	West Slope Protection Evaluation (2019)	Study	This project has been awarded to Tetra Tech.
3746-000	Motor Control Center A, G, H Design (2019)	Design	The SOCWA Board approved the award of contract to Lee & Ro at the March 7, 2019, SOCWA Board Meeting. This project is currently delayed due to requests by ETWD to review other options.
3747-000	Southside Plant Flooding Evaluation (2019)	Study	This project has been awarded to Tetra Tech.
3740-000	SE Electrical Manhole Reconstruction (2018)	Design	The SOCWA Board approved the award of contract to Lee & Ro at the March 7, 2019, SOCWA Board Meeting.
4703-000	Laboratory Reconstruction Evaluation	Study	Project is delayed due to COVID-19 and is scheduled to begin in Fall 2020.
4704-000	Evaluate Plant and Storm Water Drainage System	Study	This project has been awarded to Tetra Tech.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 17(R) - REGIONAL TREATMENT PLANT CAPITAL PROJECTS
(‘19/’20)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECT SOLIDS			
3751-000	Miscellaneous Improvements 2018 (Installation of access walkway and Energy Building roof)	Construction	The construction contract was awarded to Filanc at the May 16, 2019 SOCWA Board meeting. Task 3790-000 has been combined into to this one Task Code.
3749-000	Phase I Solids Piping Upgrade (2019)	Construction	This project has been delayed due to COVID-19 and is expected to advertise for bid in Winter 2020.
3750-000	Dewatering Room Floor Sealing and Lighting (2019)	Design	Harper & Associates has been retained to provide a specification for the floor sealing.
3754-000	SET Piping Reconstruction (2019)	Construction	This project has been delayed due to COVID-19 and is expected to advertise for bid in Winter 2020.
3790-000	Solids Area Upgrade Design (2018)	Design	Lee & Ro is working on the design for the modifications to the digester gas piping.
3772-000	Hot Water Piping Reconstruction	Design	Carollo has completed the initial design for upgrading the Hot Water Piping.
3773-000	Cogeneration System Modifications	Design	A review is being conducted to identify the needed elements for this project.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 21 - EFFLUENT TRANSMISSION MAIN CAPITAL PROJECTS
('20/'21)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECTS			
3105-000	Air Vacuum Release Valve Replacement Reach D Design and Permitting	Design	Proposals were reviewed by Engineering Committee in October 2020.
3106-000	Air Vacuum Release Valve Replacement Reach E Design and Permitting	Design	Proposals were reviewed by Engineering Committee in October 2020.
3101-000	Trail Bridge Creek Crossing Protection (Reach D) Design and Permitting	Design	Tetra Tech has submitted a set of design drawings for SOCWA review.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 24 - ALISO CREEK OCEAN OUTFALL CAPITAL PROJECTS
('19/'20)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECTS			
3480-000	Internal Seal Replacement (2018)	Design	A purchase order has been issued to Black & Veatch to provide design documents. The project is expected to advertise for bidding in February 2021.

Agenda Item

4i

Board of Directors Meeting

Meeting Date: December 17, 2020

TO: PC-2, PC-15, & PC-17 Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jason Manning, Director of Engineering

SUBJECT: Capital Improvement Program Project Financial Status and Change Orders [Project Committees 2, 15, & 17]

Summary/Discussion

The attached CIP Report shows the financial status of the three major construction projects as well any potential and Engineering Committee reviewed change orders. Please note that there are six new change orders for the JBL Package B Project and three new change orders for the CTP Facility Improvement Project

As a reminder, change orders within the General Manager's purchasing authority (less than \$50,000) and within the project contingency will be presented in this report to the Engineering Committee and then to the Board of Directors. This is in accordance with the current purchasing policy, the change order procedure update provided to Engineering Committee in November 2019, and the contingencies approved by the Board in December 2019.

Recommended Action: The Engineering Committee recommends:

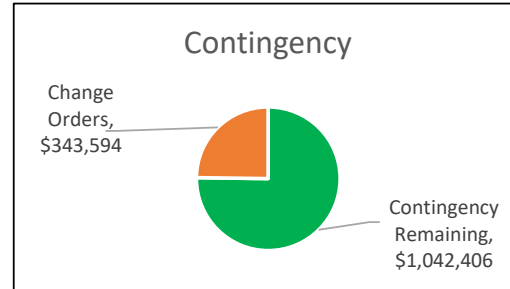
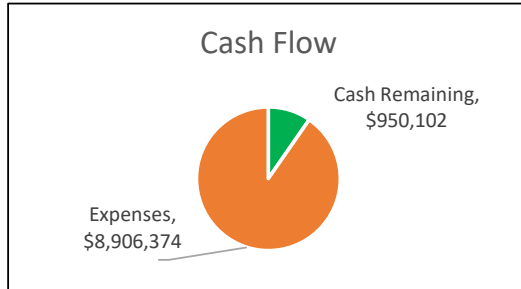
1. The PC-2 Board to approve Change Orders 10 and 15 totaling \$187,929; and
2. The PC-15 Board to approve Change Orders 11 through 13 totaling \$28,210.

Project Financial Status

Project Committee	2
Project Name	Package B
Project Description	Plant 1 basin repairs, DAF rehabilitation, Energy Building seismic retrofit and minor rehabilitation, Digester 4 rehabilitation

Data Last Updated

December 1, 2020



Cash Flow

Collected	\$9,856,476
Expenses	\$8,906,374

Project

Completion

Schedule	59%
Budget	40%

Contracts

Company	PO No.	Original	Change Orders	Total	Paid
Olsson	13497	\$ 17,325,000	\$ 343,594	\$ 17,668,594	\$6,519,755
Butier	13647	\$ 1,055,325	\$ -	\$ 1,055,325	\$666,333
Carollo	13616	\$ 846,528	\$ -	\$ 846,528	\$621,061
TetraTech	13605	\$ 94,000	\$ -	\$ 94,000	\$81,837
		\$ 19,320,853	\$ 343,594	\$ 19,664,447	\$7,888,986

Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3220-000	\$ 616,800	\$ 73,170	\$ 543,630	13.5%
Common	3231-000	\$ 96,800	\$ -	\$ 96,800	0.0%
Solids	3287-000	\$ 672,400	\$ 270,424	\$ 401,976	67.3%
		\$ 1,386,000	\$ 343,594	\$ 1,042,406	33.0%

Change Orders

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
1	Olsson	3287-000	Addition of Loop Piping to the Existing Hot Water Lines Adjacent to Digester 3	Approved by Board of Directors	12/12/2019		\$ 4,725
2	Olsson	3287-000	Asbestos Gaskets in Boiler hazardous disposal	Approved by Board of Directors	6/4/2020		\$ 6,343
3	Olsson	3287-000	Add Analog Infrastructure and Cabling	Approved by Board of Directors	6/4/2020		\$ 37,970
4	Olsson	3287-000	Digester 4 Coating Additional Sealant	Approved by Board of Directors	6/4/2020		\$ 24,002
5	Olsson	3220-000	Valve Handwheel Ergonomic extension	Approved by Board of Directors	8/6/2020		\$ 16,370
6	Olsson	3287-000	Change to DeZurik Plug Valves to match existing	Approved by Board of Directors	8/6/2020		\$ 41,994
7	Olsson	3287-000	Digester 4 Additional Concrete Repair	Approved by Board of Directors	8/6/2020		\$ 7,413
8	Olsson	3287-000	Repair Existing Damaged Electrical Box	Approved by Board of Directors	8/6/2020		\$ (1,829)
9	Olsson	3220-000	Change the Telescoping Valve Boxes and Piping from Carbon Steel to Stainless Steel	Approved by Board of Directors	8/6/2020		\$ 18,678

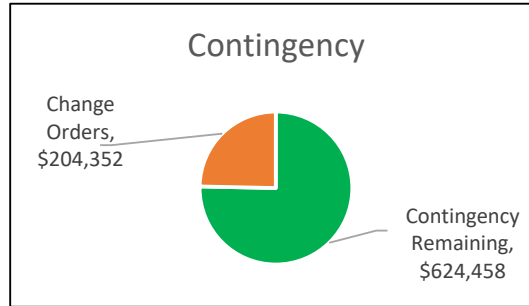
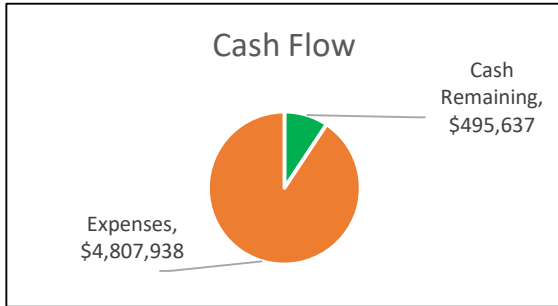
Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
10	Olsson	3287-000	Duct bank J Interferences	Within contingency, reviewed by Engineering Committee	11/12/2020		\$ 73,639
11	Olsson	3220-000	Blasting of Existing Influent Pipe Spools	Within contingency, reviewed by Engineering Committee	11/12/2020		\$ 20,869
12	Olsson	3220-000	Duct bank K Interferences	Within contingency, reviewed by Engineering Committee	11/12/2020		\$ 15,567
13	Olsson	3287-000	Digester 3/4 PLC Relocation	Within contingency, reviewed by Engineering Committee	11/12/2020		\$ 41,368
14	Olsson	3287-000	Digester 4 Additional Tank Repair	Within contingency, reviewed by Engineering Committee	11/12/2020		\$ 34,800
15	Olsson	3220-000	Duct bank O Interferences	Within contingency, reviewed by Engineering Committee	11/12/2020		\$ 1,687
PCO 002	Olsson	3287-000	Digester 4 Rail Coating. The coating is not needed and resulting in a credit but some rehabilitation work will be needed.	Potential Change	(blank)	-\$1,000	

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
PCO 004	Olsson	3287-000	Digester 4 Control Narrative needed	Potential Change	(blank)	\$5,000	
PCO 005	Olsson	3287-000	TWAS Slab Modifications	Potential Change	(blank)	\$50,000	
PCO 007	Olsson	3287-000	Relocation of MCC-F1	Potential Change	(blank)	\$40,000	
PCO 008	Olsson	3287-000	Conduit Routing Conflict from MCC-F1	Potential Change	(blank)	\$15,000	
PCO 009	Olsson	3287-000	PLC East Headworks Integration	Potential Change	(blank)	\$5,000	
PCO 012	Olsson	3287-000	PCL-CG Integration	Potential Change	(blank)	\$5,000	
PCO 014	Olsson	3287-000	Digester 4 Compressor Supply Line	Potential Change	(blank)	\$18,146	
PCO 018	Olsson	3287-000	Duct bank L Interferences	Potential Change	(blank)	\$5,000	
PCO 026	Olsson	3287-000	Gas Hatch Lids Mating Connection	Potential Change	(blank)	\$7,771	
PCO 028	Olsson	3287-000	4" Gas Line Routing Modifications	Potential Change	(blank)	\$18,147	
PCO 032	Olsson	3287-000	Gas Mixer Conduit Conflict	Potential Change	(blank)	\$12,384	
Grand Total						\$180,448	\$ 343,594

Project Financial Status

Data Last Updated
December 1, 2020

Project Committee	15
Project Name	Facility Improvements
Project Description	New ferric chloride system, new collection equipment in East Sedimentation basins, concrete repair, structural improvements, new switchgear and numerous electrical upgrades



Cash Flow

Collected	\$5,303,575
Expenses	\$4,807,938

Project Completion

Schedule	73%
Budget	43%

Contracts

Company	PO No.	Original	Change Orders	Total	Paid
PCL	13751	\$ 9,209,000	\$ 204,352	\$ 9,413,352	\$3,937,557
Butier	13647	\$ 812,288	\$ -	\$ 812,288	\$469,938
Hazen & Sawyer	13648	\$ 490,484	\$ -	\$ 490,484	\$204,834
		\$ 10,511,772	\$ 204,352	\$ 10,716,124	\$4,612,328

Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3539-000	\$ 828,810	\$ 204,352	\$ 624,458	32.7%
		\$ 828,810	\$ 204,352	\$ 624,458	32.7%

Change Orders

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
1	PCL	3539-000	Additional Potholing	Approved by Board of Directors	8/6/2020		\$ 22,936
2	PCL	3539-000	Gas Line Replacement	Approved by Board of Directors	8/6/2020		\$ 41,006
3	PCL	3539-000	Main Switchgear Building Underground Conflicts	Approved by Board of Directors	8/6/2020		\$ 8,683
4	PCL	3539-000	Mud Valve Bolt Removal	Approved by Board of Directors	8/6/2020		\$ 6,577
5	PCL	3539-000	Additional Anchor Bolt Removal	Approved by Board of Directors	8/6/2020		\$ 15,271
6	PCL	3539-000	Slide Gate Concrete Repair	Approved by Board of Directors	8/6/2020		\$ 3,396
7	PCL	3539-000	Sludge Collector Wear Strips	Approved by Board of Directors	8/6/2020		\$ 5,304
8	PCL	3539-000	SCE Transformer Slab Box	Approved by Board of Directors	9/3/2020		\$ 4,378
9	PCL	3539-000	Duct Bank 5 Buried Utility Conflicts	Approved by Board of Directors	10/1/2020		\$ 32,224
10	PCL	3539-000	Telescoping Valve Modifications	Approved by Board of Directors	10/1/2020		\$ 36,067
11	PCL	3539-000	Secondary Effluent Channel Improvements	Within contingency, reviewed by Engineering Committee	11/12/2020		\$ 5,153

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
12	PCL	3539-000	Portable Generator Tap Enclosures in Buildings 2 & 15	Within contingency, reviewed by Engineering Committee	12/10/2020		\$ 18,356
13	PCL	3539-000	Conduit, wiring, and mounting of LL1 fixtures	Within contingency, reviewed by Engineering Committee	12/10/2020		\$ 5,001
PCO 006	PCL	3539-000	Additional Pothole Paving	Potential Change	(blank)	\$5,000	
PCO 013	PCL	3539-000	Ferric Containment Foundation	Potential Change	(blank)	\$15,000	
PCO 015	PCL	3539-000	RAS Channel Modification Desclope	Potential Change	(blank)	-\$2,000	
PCO 016	PCL	3539-000	Spray Water Piping Replacement	Potential Change	(blank)	\$1,500	
PCO 019	PCL	3539-000	Switchgear Building Concrete Repair	Potential Change	(blank)	\$30,000	
PCO 024	PCL	3539-000	Drainage Pump Station Desclope	Potential Change	(blank)	-\$400,000	
PCO 025	PCL	3539-000	Sludge Collector Mounting Plate Replacement	Potential Change	(blank)	\$13,815	
PCO 026	PCL	3539-000	Additional Spall Repair - East Secondary Basins	Potential Change	(blank)	\$10,000	

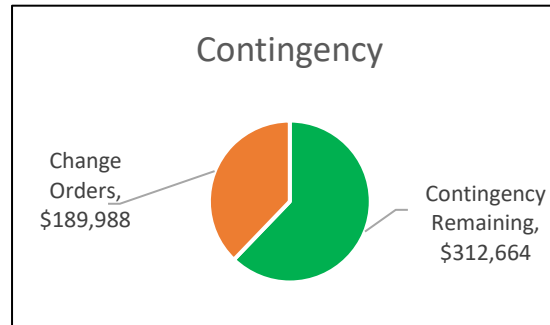
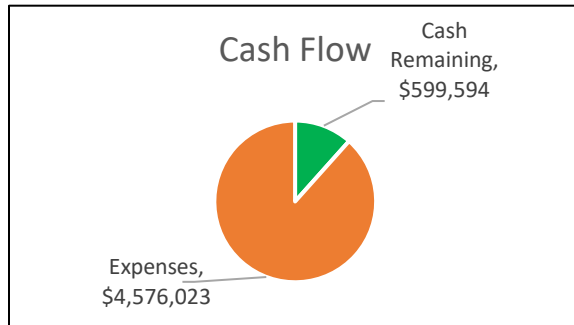
Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
PCO 028	PCL	3539-000	Ops Building Gas Line Relocation	Potential Change	(blank)	\$5,000	
PCO 029	PCL	3539-000	Building 15 Concrete Restoration	Potential Change	(blank)	\$20,000	
PCO 030	PCL	3539-000	Basin Leaking Crack Repair	Potential Change	(blank)	\$5,000	
PCO 031	PCL	3539-000	Roll Up Door Fascia	Potential Change	(blank)	\$3,000	
PCO 035	PCL	3539-000	Grit Chamber Conflicts	Potential Change	(blank)	\$20,000	
PCO 036	PCL	3539-000	MCC Feeder Credit	Potential Change	(blank)	-\$5,000	
PCO 037	PCL	3539-000	Additional Spall Repair - Grit Channels	Potential Change	(blank)	\$25,000	
PCO 038	PCL	3539-000	Aeration Channel Conflicts	Potential Change	(blank)	\$8,000	
PCO 040	PCL	3539-000	Helical Skimmer Wiring	Potential Change	(blank)	\$2,000	
PCO 042	PCL	3539-000	Mixed Liquor Channel Remobilization	Potential Change	(blank)	\$15,000	
PCO 043	PCL	3539-000	Building 10 Roof Repairs	Potential Change	(blank)	\$10,000	
PCO 044	PCL	3539-000	Building 10 Wall Repair	Potential Change	(blank)	\$2,000	
PCO 046	PCL	3539-000	1/2" Ferric Line Conflicts	Potential Change	(blank)	\$5,000	
PCO 047	PCL	3539-000	West Telescoping Valve Improvements	Potential Change	(blank)	\$25,000	
PCO 048	PCL	3539-000	West Secondary Effluent Channel Concrete Repair	Potential Change	(blank)	\$20,000	
Grand Total						-\$166,685	\$ 204,352

Project Financial Status

Project Committee	17
Project Name	Miscellaneous Improvements 2018
Project Description	Secondary electrical upgrades and Primary Gallery rehabilitation, installation of access walkway and Energy Building roof

Data Last Updated

December 1, 2020



Cash Flow

Collected	\$5,175,617
Expenses	\$4,576,023

Project Completion

Schedule	90%
Budget	88%

Contracts

Company	PO No.	Original	Change Orders	Total	Paid
Filanc	13678	\$ 4,181,205	\$ 129,328	\$ 4,310,533	\$3,806,206
Dudek	14164	\$ 137,625	\$ 60,660	\$ 198,285	\$139,607
Lee & Ro	14006	\$ 123,310	\$ -	\$ 123,310	\$112,695
		\$ 4,442,140	\$ 189,988	\$ 4,632,128	\$4,058,508

Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3701-000	\$ 343,593	\$ 162,220	\$ 181,373	89.4%
Common	3769-000	\$ 4,545	\$ -	\$ 4,545	0.0%
Solids	3751-000	\$ 154,514	\$ 27,768	\$ 126,746	21.9%
		\$ 502,652	\$ 189,988	\$ 312,664	60.8%

Change Orders

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
1	Filanc	3701-000	Additional Conduit Support around Admin Building	Approved by Board of Directors	8/6/2020		\$32,929.28
2	Filanc	3701-000	Primary Deck Conduit Supports	Approved by Board of Directors	8/6/2020		\$ 9,611.12
3	Filanc	3701-000	Electrical Manhole 2 collar concrete/pavement repair	Approved by Board of Directors	8/6/2020		\$ 2,986.60
4	Filanc	3701-000	Primary Gallery Concrete Deck Repair	Approved by Board of Directors	8/6/2020		\$ 6,363.00
5	Filanc	3701-000	VFD Cabinet change from 316 to 304 Stainless Steel	Approved by Board of Directors	8/6/2020		\$ (2,100.00)
6	Filanc	3701-000	Duct bank Vault size change to accommodate existing utilities and sump	Approved by Board of Directors	8/6/2020		\$ 37,690
7	Filanc	3751-000	Energy Building Roof Steel Beam Anchor Embedment	Approved by Board of Directors	8/6/2020		\$10,280.90
8	Filanc	3701-000	Polymer VFD Improvements	Approved by Board of Directors	10/1/2020		\$ 15,549
9	Filanc	3751-000	Repair/improve floor grating in equipment to meet safety standards	Approved by Board of Directors	10/1/2020		\$ 1,843

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
10	Filanc	3751-000	Additional roofing materials required to level surface	Approved by Board of Directors	10/1/2020		\$ 4,465
11	Filanc	3701-000	Additional backfill material for MH-1	Approved by Board of Directors	10/1/2020		\$ 2,939
12	Filanc	3701-000	Admin Bldg. roof drain rerouting	Approved by Board of Directors	10/1/2020		\$ 966
13	Filanc	3751-000	Additional angle steel needed to support new roof	Approved by Board of Directors	10/1/2020		\$ 1,069
14	Filanc	3701-000	Rebate work on Primary Gallery Deck to resolve potential safety issue	Approved by Board of Directors	10/1/2020		\$ 4,736
Grand Total							\$ 129,328

Agenda Item

5a

Board of Directors Meeting

Meeting Date: December 17, 2020

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jason Manning, Director of Engineering

SUBJECT: Coastal Treatment Plant Sludge Force Main Replacement Project
Construction Bids [Project Committee 15]

Overview

In mid-October 2020, Dudek completed the final design for the Coastal Treatment Plant Sludge Force Main Replacement Project. The final design was put out for bid on October 29, 2020 with bids received on December 3, 2020.

The project will replace approximately 17,050 feet of the existing dual 4-inch ductile iron sludge force main that transports sludge from the Coastal Treatment Plant to the Regional Treatment Plant through Aliso Canyon with one 6-inch HDPE pipeline. The ductile iron pipeline has experienced several failures over the years.

Bids

The following contractors were invited to bid on the Coastal Treatment Plant Sludge Force Main Replacement Project:

Downing Construction
JR Filanc
Gateway Pacific
JF Shea
Pascal & Ludwig
WA Rasic

Downing Construction, Filanc, and WA Rasic attended the mandatory pre-bid meeting on November 12, 2020, and bids were received from all three construction firms in attendance. The bid advertisement, Q&A, and submittals were all managed online using PlanetBids.

Table 1 below summarizes the bids. The apparent low bidder being Filanc with a total estimated cost of \$3,107,347.

The Engineer's Estimate for the project is \$3,705,200.

Table 1 – Bid Results

Construction Firm	Bid Result
JR Filanc	\$3,107,347
WA Rasic	\$3,634,195
Downing Construction	\$3,964,650

Dudek has completed their review of the bids and has found that the low bid is fair and reasonable.

Cost Allocation

Table 2 – Cost allocation by member agency

Agency	Filanc Construction Bid
	3541-000
CLB	\$1,178,008.78
EBSB	\$ 92,756.60
MNWD	\$ 909,014.65
SCWD	\$ 927,565.97
Total	\$3,107,346.00

Table 3 – Available budget

3534-000	3541-000	Total
\$699,679	\$4,045,345	\$4,745,024

Project 3534-000 is already funded and approximately \$1.4 million (33% of budget) has already been collected for 3541-000.

Table 4 – Expected Project Costs

Project Element	Cost	Contingency (8%)	Total
Construction	\$3,107,346	\$ 248,588	\$3,355,934
EDSC	\$ 150,800		\$ 150,800
Biological Monitoring	\$ 236,950		\$ 236,950
Cultural Monitoring	\$ 277,368		\$ 277,368
Construction Management	\$ 248,588		\$ 248,588
Total	\$4,021,052	\$ 248,588	\$4,269,640

The projected costs are within the current budget with an expected surplus of \$475,384.

In addition to the above costs, a mitigation project is required to accompany this project to offset environmental impacts. The design and construction costs for this project are expected to be around \$1M. A portion of the mitigation project will be covered by surplus budget from the above projects and any additional funds needed will be included in the 2021/2022 CIP Fiscal Year budget.

Recommended Action: The Engineering Committee recommends to the PC 15 Board to authorize the General Manager to enter into a construction contract with JR Filanc for the Coastal Treatment Plant Sludge Forcemain Project in the amount of \$3,107,346, and the PC 15 Board approves a project contingency of \$248,588 for the Project.

Agenda Item

5b

Board of Directors Meeting

Meeting Date: December 17, 2020

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jason Manning, Director of Engineering

SUBJECT: Coastal Treatment Plant Sludge Force Main Replacement Project
Cultural Monitoring Services During Construction [Project Committee 15]

Overview

The final design was put out for bid for the Sludge Force Main Replacement Project on October 29, 2020 and bids were received on December 3, 2020. The project has multiple permits and requirements through multiple agencies:

1. "Final Environmental Impact Report for the Coastal Treatment Plant Export Sludge Force Main Replacement Project", dated March 2013, including Section 12.0, "Mitigation Monitoring and Reporting Program"
2. "Streambed Alteration Agreement", Notification No. 1600-2015-0015-R5, dated September 5, 2016
3. "San Diego Regional Water Quality Control Board, Clean Water Act Section 401 Water Quality Certification No. R9-2015-0033 for the Coastal Treatment Plant Export Sludge Force Main Replacement Project, dated January 7, 2016
4. San Diego Regional Water Quality Control Board, Amendment No. 1 to Clean Water Act Section 401 Water Quality Certification No. R9-2015-0033 for the Coastal Treatment Plant Export Sludge Force Main Replacement Project, dated October 25, 2018
5. Department of the Army, Los Angeles District, U.S. Army Corps of Engineers, Provisional Nationwide Permit (NWP) Verification, dated October 10, 2018
6. United States Department of the Interior, U.S. Fish and Wildlife Service, Revised Informational Section 7 Consultation for the Coastal Treatment Plant Export Sludge Force Main Replacement Project, Orange County, California (SPL-2015-00128-ERS), dated September 24, 2018
7. Orange County Parks, Construction & Encroachment Permit, (in progress)
8. California Coastal Commission, Amendment to Coastal Development Permit, dated September 9, 2020

The Final EIR requires that archaeological and Native American monitoring be performed during certain ground disturbances:

MM-CUL 2: All Ground disturbances within the defined CA-ORA-582 site boundary, and a 100-foot buffer around the boundary, shall be monitored by a qualified archaeologist and a local Native American representative.

And that paleontological monitoring be performed during all ground-disturbing activities:

MM PAL-1: SOCWA Shall retain an Orange County-certified paleontologist to monitor all ground-disturbing activities associated with construction of the proposed project.

As outlined in the Construction Monitoring Treatment Plan for the project, Special condition 22 of the Coastal Commission's Coastal Development Permit requires:

"...all grading and/or ground disturbance along the entire length of the pipeline alignment shall be monitored by an archaeologist who meets California OHP standards and a Native American observer who has documented ancestral ties to the area and is appointed consistent with the standards of the NAHC.

And:

"Consistent with the Coastal Commission's Special Condition No. 22, Section A, Subsection 5, sufficient qualified archaeologists and Native American observers shall be available to assure that all project grading/ground disturbances are monitored at all times."

Proposals

SOCWA requested proposals from the following firms and asked them to assume 200 working days (approximately 300 calendar days) and three inadvertent discoveries:

AECOM
Dudek
PaleoWest
PSOMAS

All four firms provided proposals and are summarized below in Table 1.

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Table 1 – Summary of Proposals

Firm	AECOM	Dudek	PaleoWest	PSOMAS
Project Manager	Jennifer Redmond	Mark W Lathram	Jessica DeBusk	Charles Cisneros
Subconsultants	Paleo Solutions, Inc.	NDNA Monitoring	Gabrielino/Tongva Tribal Consultants	John Minch and Associates Juaneño Band of Mission Indians, Acjachemen Nation
Paleo/Arch Hours and Cost	920 hours arch \$72,880 //	1,680 hours \$143,374	1,688 hours \$128,716	1,672 \$123,495
Native American Hours/Cost	1800 hours* Paleo/Native American \$225,000	1,604 hours \$115,054	1,600 hours* \$128,000	1,600 hours \$120,000
Three Inadvertent Discoveries Cost	\$15,018	\$13,920	\$12,854	\$14,076
Total Labor Hours	2,898*	3,598	3,556	3,627
Total Cost	\$345,188	\$304,008	\$304,654	\$277,368

* Not all details provided, estimated from information in proposal

Cost Allocation

Table 2 – Cost allocation by member agency using the PSOMAS proposal

Agency	Cultural Monitoring
	3534-000
CLB	\$105,151.45
EBSD	\$ 8,279.64
MNWD	\$ 81,140.49
SCWD	\$ 82,796.42
Total	\$277,368.00

Table 3 – Available budget

3534-000	3541-000	Total
\$699,679	\$4,045,345	\$4,745,024

Project 3534-000 is already funded and approximately \$1.4 million (33% of budget) has already been collected for 3541-000.

Table 4 – Expected Project Costs

Project Element	Cost	Contingency (8%)	Total
Construction	\$3,107,346	\$ 248,588	\$3,355,934
EDSC	\$ 150,800		\$ 150,800
Biological Monitoring	\$ 236,950		\$ 236,950
Cultural Monitoring	\$ 277,368		\$ 277,368
Construction Management	\$ 248,588		\$ 248,588
Total	\$4,021,052	\$ 248,588	\$4,269,640

The projected costs are within the current budget with an expected surplus of \$475,384.

Recommended Action: The Engineering Committee recommends to the PC-15 Board to authorize the General Manager to enter into a time and materials contract with PSOMAS in the amount of \$277,368 for the Archeological, Paleontological, and Native American monitoring services during construction for the Coast Treatment Plant Sludge Force Main Project.

Agenda Item

5c

Board of Directors Meeting

Meeting Date: December 17, 2020

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jason Manning, Director of Engineering

SUBJECT: Coastal Treatment Plant Sludge Force Main Replacement Project
Engineering and Biological Services During Construction [Project
Committee 15]

Overview

In mid-October 2020, Dudek completed the final design for the Coastal Treatment Plant Sludge Force Main Replacement Project. The final design was put out for bid on October 29, 2020 bids were received on December 3, 2020.

In addition to the engineering design work, Dudek has also provided the permitting support for the project. Therefore, SOCWA staff requested that Dudek provide costs for both the Engineering Services During Construction and Biological Monitoring Services. Their proposal is attached as Exhibit A and Table 1 shows a breakdown of the associated costs. The costs are based on time and materials and we have assumed four nesting sites that will require noise monitoring for budgeting purposes.

The project related permits are listed below:

1. "Final Environmental Impact Report for the Coastal Treatment Plant Export Sludge Force Main Replacement Project", dated March 2013, including Section 12.0, "Mitigation Monitoring and Reporting Program"
2. "Streambed Alteration Agreement", Notification No. 1600-2015-0015-R5, dated September 5, 2016
3. "San Diego Regional Water Quality Control Board, Clean Water Act Section 401 Water Quality Certification No. R9-2015-0033 for the Coastal Treatment Plant Export Sludge Force Main Replacement Project, dated January 7, 2016
4. San Diego Regional Water Quality Control Board, Amendment No. 1 to Clean Water Act Section 401 Water Quality Certification No. R9-2015-0033 for the Coastal Treatment Plant Export Sludge Force Main Replacement Project, dated October 25, 2018
5. Department of the Army, Los Angeles District, U.S. Army Corps of Engineers, Provisional Nationwide Permit (NWP) Verification, dated October 10, 2018
6. United States Department of the Interior, U.S. Fish and Wildlife Service, Revised Informational Section 7 Consultation for the Coastal Treatment Plant Export Sludge Force Main Replacement Project, Orange County, California (SPL-2015-00128-ERS), dated September 24, 2018
7. Orange County Parks, Construction & Encroachment Permit, (in progress)

8. California Coastal Commission, Amendment to Coastal Development Permit, dated September 9, 2020

Table 1 – Dudek Tasks during Construction

Tasks	Total Hours	Costs
Engineering Services During Construction	718	\$ 150,800
Biological Monitoring and Reporting	1,385	\$ 202,350
Noise Monitoring per Nest Site (4 x \$8,650.00)	44	\$ 34,600
Total	2,147	\$ 387,750

Cost Allocation

Table 2 – Cost allocation by member agency

Agency	Dudek Tasks During Construction
	3534-000
CLB	\$146,997.76
EBSD	\$11,574.63
MNWD	\$113,431.34
SCWD	\$115,746.27
Total	\$387,750.00

Table 3 – Available budget

3534-000	3541-000	Total
\$699,679	\$4,045,345	\$4,745,024

Project 3534-000 is already funded and approximately \$1.4 million (33% of budget) has already been collected for 3541-000.

Table 4 – Expected Project Costs

Project Element	Cost	Contingency (8%)	Total
Construction	\$3,107,346	\$ 248,588	\$3,355,934
EDSC	\$ 150,800		\$ 150,800
Biological Monitoring	\$ 236,950		\$ 236,950
Cultural Monitoring	\$ 277,368		\$ 277,368
Construction Management	\$ 248,588		\$ 248,588
Total	\$4,021,052	\$ 248,588	\$4,269,640

The projected costs are within the current budget with an expected surplus of \$475,384.

Recommended Action: The Engineering Committee recommends to the PC-15 Board to authorize the General Manager to enter into a time and materials contract with Dudek in the amount of \$387,750 for the engineering and biological services during construction for the Coastal Treatment Plant Sludge Force Main Project.

Agenda Item

5d

Board of Directors Meeting

Meeting Date: December 17, 2020

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jason Manning, Director of Engineering

SUBJECT: San Juan Creek Ocean Outfall Junction Structure Rehabilitation Project
[Project Committee 5]

Overview

On November 5, 2020, the Project Committee 5 Board of Directors awarded the San Juan Creek Ocean Outfall Junction Structure Rehabilitation Construction Project to Filanc. In addition to construction, there are several permits and regulatory requirements that must be met during the construction project. Dudek had been hired in 2019 to conduct the permitting services. To maintain project continuity with the regulatory agencies, SOCWA requested Dudek to provide a cost to conduct biological monitoring and other associated permitting services during construction.

Table 1 – Dudek Biological Monitoring Costs During Construction

Task	Cost
Pre-Construction Activities	\$21,766
Construction monitoring and Reporting	\$67,903
Project Management and Coordination	\$ 8,100
Total	\$89,668

Table 2 – Available Remaining Budgets

Project	Phase	Budget
3605-000 Junction Structure Reinforcement Permitting and Final Design	Phase I	\$71,549
3650-000 Junction Structure Reinforcement Construction	Phase II	\$984,643
Total		\$1,056,192

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Table 3 – Estimated costs for Construction (Phase II)

Task	Estimated Fee
Construction (Phase II)	\$916,164
Engineering Services During Construction	\$31,100
Construction Management	\$19,000
Biological Monitoring/CDP Compliance	\$89,668
Total	\$1,055,932

NOTE: Cost for Construction Management is a placeholder estimate.

Currently, it is estimated that the project will not require approval of an additional funds and will have a budget surplus of approximately \$260. This does not include any contingencies.

Table 4 – Cost Breakdown by Agency for Dudek Costs

Agency	Dudek Cost
CSC	\$ 14,902.82
CSJC	\$ 9,935.21
MNWD	\$ 13,907.51
SCWD	\$ 11,181.60
SMWD	\$ 39,740.86
Total	\$ 89,668.00

Recommended Action: The Engineering Committee recommends to the PC-5 Board to authorize the General Manager to enter into a contract with Dudek in the amount of \$89,668 for the biological monitoring services during construction for the SJCOO Junction Structure Rehabilitation Project.

Agenda Item

6a

Budgeted: Small Capital

Line Item: PC-15 Project # 2521-017

Legal Counsel Review: No

Meeting Date: December 17, 2020

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jim Burror, Director of Operations

SUBJECT: Coastal Treatment Plant Flooring Recoating Project Award to Oakridge Industries for a cost not to exceed \$57,460.00

Summary

This agenda item provides a recommendation for the award of a small capital project budgeted to recoat floors with deteriorated flooring systems at the Coastal Treatment Plant (CTP).

Discussion/Analysis

CTP four (4) buildings with flooring coating systems that are failed and need to be replaced. The floors are subject to chemical corrosion, sewage exposure, and abrasion from heavy equipment moved in the buildings. The coating systems help protect the underlying concrete from deterioration. Staff recommends the award of a contract to the lowest bidder Oakridge Industries for a cost not to exceed \$57,460.00.

Bidding Process

The three (3) potential bidders were contacted in October 2020 to inspect the existing building floors to be recoated. These floors include the Headworks, Electrical Building #2, Maintenance Shop, and the Operations Building mechanical rooms. The three (3) companies were selected because they have completed similar successful projects using epoxy coatings systems recommended for the floors.

Three bids were received for the project. The bids were as follows:

Contractor	Bid
Oakridge Industries	\$57,460.00
Systems Waterproofing	\$62,310.00
Performance Floor Systems	\$73,530.00

The low bidder is Oakridge Industries at \$57,460.00.

Prior Related Project Committee or Board Action(s)

None

Fiscal impact

Per SOCWA’s Uniform Purchasing Policy and Procedures, purchases over \$50,000 are to be reviewed and approved by the Board of Directors.

This capital purchase for slip lining is associated with liquids facilities. Therefore, the costs are to be allocated using a combination of the liquids ownership allocations for PC-15 (CTP). The following are the cost allocations for the project:

Agency	Ownership	Allocation
CLB	37.91%	\$21,783.09
EBSB	2.99%	\$1,718.05
SCWD	29.25%	\$16,807.05
MNWD	29.85%	\$17,151.81
Total	100.00%	\$57,460.00

Recommend Action: Staff recommends to the Board to authorize the General Manager to enter into a construction contract with Oakridge Industries in the amount of \$57,460 for the Coastal Treatment Plant Flooring Recoating Project.

Agenda Item

6b

Budgeted: Small Capital
Line Item: PC-2 Project #2221-015, PC-15 Project # 2521-003 and PC-17 Project #2721-007
Legal Counsel Review: No
Meeting Date: December 17, 2020

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jim Burror, Director of Operations

SUBJECT: Small Capital Hydrogritter Purchases from Flow Systems, Inc. for \$254,023.86 (plus shipping)

Summary

This agenda item provides a recommendation for the award of three (3) small capital projects to replace the remaining severely corroded grit separators at all three Plants.

Discussion/Analysis

SOCWA installed seven (7) new grit separators at the three SOCWA treatment plants in 2004. Three (3) units were replaced, and one unit was overhauled in FY19-20. The remaining three (3) units beyond their useful lives, are severely corroded, and require replacement this Fiscal Year. This includes one (1) at each of the three (3) Plants.

Flow Systems, Inc. is WEMCO's authorized representative for Hydrogritters in California. Thus, Flow Systems, Inc. is the only available vendor to SOCWA for the replacement of the Hydrogritters. SOCWA O&M staff will install the units once delivered. The device control panels and electrical systems are in good condition and will not be replaced under these projects.

Below are some sample photos of the equipment that shows the severe corrosion of the equipment.



Prior Related Project Committee (PC) or Board Action(s)

None

Fiscal impact

Per SOCWA’s Uniform Purchasing Policy and Procedures, sole source and non-discretionary purchases over \$50,000 are to be reviewed and approved by the Board of Directors.

These capital purchases are located in the Headwords of each plant and are for processing liquids. Therefore, the costs are to be allocated using the liquids ownership allocations for each Treatment Plant. The following are the cost allocations for each purchase and the total contract.

PC2 - JBL (Liquids)			PC15 - CTP (Liquids)		
Agency	Cap. Ownership	Allocation	Agency	Cap. Ownership	Allocation
CSJC	30.77%	\$27,308.51	CLB	37.91%	\$33,645.29
MNWD	23.08%	\$20,483.60	EBSD	2.99%	\$2,653.64
SCWD	28.84%	\$25,595.63	MNWD	29.25%	\$25,959.50
SMWD	17.31%	\$15,362.70	SCWD	29.85%	\$26,492.01
Total	100.00%	\$88,750.44	Total	100.00%	\$88,750.44

PC17 - RTP (Liquids)		
Agency	Cap. Ownership	Allocation
MNWD	100.00%	\$84,280.97
Total	100.00%	\$84,280.97

Total Contract	
Agency	Allocation
CLB	\$33,645.29
CSJC	\$27,308.51
EBSD	\$2,653.64
MNWD	\$130,724.08
SCWD	\$52,087.63
SMWD	\$15,362.70
Total	\$261,781.85

Actual shipping costs will be added to the allocated costs using the liquids ownership percentages shown above when the invoices are received.

Recommended Action: Staff recommends to the Board to authorize the General Manager to purchase three (3) hydrogritters at a cost of \$261,781.85, including additional shipping costs that will be determined at the time the units are shipped and to distribute costs as recommended herein.

Agenda Item

6c

Board of Directors Meeting

Meeting Date: December 17, 2020

TO: Board of Directors
FROM: Betty Burnett, General Manager
SUBJECT: General Manager's Status Report

GENERAL

Thank you to the SOCWA Board for your continued support and input to staff throughout this past year. We look forward to the new year with a fresh start.

Wishing everyone a happy and safe holiday season.

ENVIRONMENTAL COMPLIANCE

Wastewater Based Epidemiology for SARS-COV-2

The Regional Treatment Plant (RTP) was chosen in a wastewater based epidemiology (WBE) project by the United States Department of Health and Human Services (HHS). The HHS project sought to capture ten percent of the United States population in this pilot surveillance project. The contractor awarded the project is the Aquavitas firm who has an academic affiliate, the Biodesign Center for Environmental Health Engineering at Arizona State University, also known as the West Center. The project covers the cost of analysis of the inlet to the RTP facility twice per week for the study period. Aquavitas has not relayed the length of the study period at this time. The goal of the study is to provide actionable information to the Orange County Health Care Agency (OCHCA). The project is in alliance with the Centers for Disease Control which is constructed a database of the results.

The South Coast Water District (SCWD) WBE Pilot Project that SOCWA is coordinating will be similar to the HHS study in that it will include the influent samples of the RTP and JBL facilities but will also include eight locations within the sewershed. SOCWA has worked with SCWD and the OCHCA on the development of sample locations and standardized protocols for extraction and analysis of the SARS-COV-2 signal within the sewershed. This signal will serve as a companion metric to assist OCHCA in their efforts related to public health measures. SOCWA has been freezing influent samples for the prior four weeks and will begin extraction when supplies become available. OCHCA will then analyze for the signals and coordinate with the epidemiology group. The cost to participate includes in kind personnel services from all agencies and minimal costs for additional extraction kits and laboratory equipment. The estimated cost per sample is less than \$50 per sample (for a twelve-week sampling period) compared to market rates of \$350 per sample. The increased duration of the project will reduce overall costs per sample.

PFAS

SOCWA completed the first sampling round in compliance with the State Water Resources Control Board's PFAS Investigative Order. Ten treatment facilities are required to sample related to the Order. Sampling was conducted over two-day period in November. Sample results were reported to the SOCWA Engineering Committee on December 10, 2020. A final review by

member agencies and submission of the results to the SWRCB's publicly accessible website will be completed in compliance with the timeframe set in Order. The next sample round will occur in the first quarter of 2021. Staff is tracking the methodology that is set to be released by the EPA in the first quarter. The current methodology is a set of performance standards released by the Department of Defense.

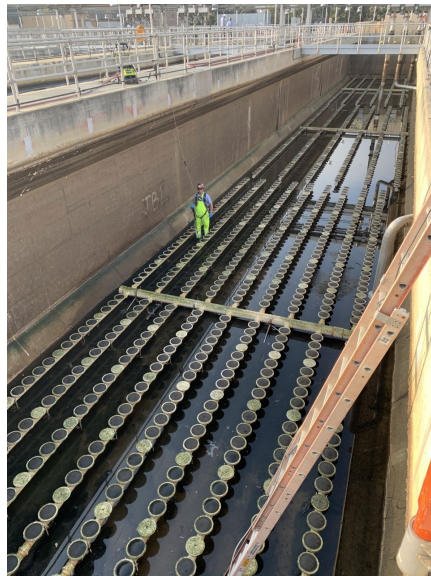
ELAP

The Office of Administrative Law approved the regulations released by the Environmental Laboratory Accreditation Program which incorporates the Nelac Institute (TNI) Standard into the California Code of Regulations. The regulations are set to become effective January 1, 2021 with a three-year implementation window for full incorporation of the TNI standard.

OPERATIONS AND MAINTENANCE

O&M Projects Update

About every two years, JBL staff need to pressure wash the aeration domes to ensure efficient and effective treatment. There are dozens of them in each basin. Staff is pictured below inspecting the basin after it was cleaned to make sure it was safe to enter the basin and start the cleaning process. The cleaning can take up to a week, depending on other activities in the Plant.



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O&M staff are pictured below removing unnecessary and frozen sludge valves at JBL. These valves are not needed. After the valves are removed, the pit will be demolished and filled in. The valve pit traps leaves, trash, and periodically stray animals like skunks and raccoons.



CTP and RTP staff installed the new grit augers purchased under the small capital program. Staff are pictured below installing one of the new units. The project did include some repiping and electrical modifications too. The new equipment is removing substantially more grit (sand and rocks) than the old equipment. This will better protect the pumping equipment at CTP and RTP in the future.

CTP Installation Photos



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RTP Installation Photo



CTP and Support Services staff are replacing the air flow meters on the East aeration system. The new meters are helping staff operate this mostly manual aeration system. The old meters were failing and difficult to keep calibrated. The project did require electrical modifications and new mounting plates too. The mounting plates were fabricated by the maintenance staff for proper installation. The west meters will be replaced when it can be coordinated with the ongoing Engineering construction project. The final installation of the two of the six east meters is pictured below.



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There were many other smaller efforts in every month. Here are some other items from RTP to highlight the many tasks going on in the mist of the Pandemic and the large construction project.

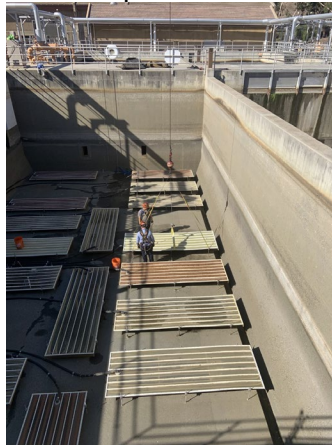


Grit Check Valves at RTP Replacement



Bleach Tank sight-glass at RTP

Replacement



Aeration Panel Overhauls