

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



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

AGENDA

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

To Be Held by Teleconference on:
February 4, 2021
8:30 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 **SEVENTY-TWO (72)** 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 **SEVENTY-TWO (72)** HOURS PRIOR TO THE SCHEDULED MEETING.

AGENDA ATTACHMENTS AND OTHER WRITINGS THAT ARE DISCLOSABLE PUBLIC RECORDS DISTRIBUTED TO ALL, OR A MAJORITY OF, THE MEMBERS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY BOARD OF DIRECTORS IN CONNECTION WITH A MATTER SUBJECT TO DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE BOARD OF DIRECTORS ARE AVAILABLE 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 **SEVENTY-TWO (72)** 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: 149 170 45

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 Meeting 1
- Board of Directors December 17, 2020
- ACTION The Board will be requested to approve subject Minutes as submitted.
- B. Minutes of Finance Committee Meeting 6
1. Finance Committee November 3, 2020
 2. Finance Committee December 8, 2020
- ACTION The Board will be requested to receive and file subject Minutes as submitted.
- C. Minutes of Engineering Committee Meeting12
1. Engineering Committee November 12, 2020
 2. Engineering Committee December 10, 2020
- ACTION The Board will be requested to receive and file subject Minutes as submitted.
- D. Minutes of PC 2/ PC 17 Committee20
- PC 2 / PC 17 Committee September 29, 2020
- ACTION: The PC 2 / PC 17 Board will be requested to approve subject Minutes as submitted, and the full Board will be requested to receive and file subject Minutes as submitted.
- E. Minutes of PC 23 Committee23
- PC 23 Committee December 23, 2020
- ACTION: The PC 23 Board will be requested approve subject Minutes as submitted and the full Board will be requested to receive and file subject Minutes as submitted.
- F. Financial Reports for the Month of October 202025
1. Summary of Disbursements for October 2020 (Exhibit A)
 2. Schedule of Funds Available for Reinvestment (Exhibit B)
 - Local Agency Investment Fund (LAIF)
 3. Schedule of Cash and Investments (Exhibit C)
 4. Capital Schedule (Exhibit D)
 - Capital Projects – Graph (Exhibit D-1)
 5. Budget vs. Actual Expenses:
 - Operations and Environmental Summary (Exhibit E-1)
 - Operations and Environmental by PC (E-1.2)
 - Residual Engineering, after transfer to Capital (Exhibit E-2)
 - Administration (Exhibit E-3)
 - Information Technology (IT) (Exhibit E-4)

ACTION: The Finance Committee recommends to the Board of Directors to ratify the October 2020 disbursements for the period from October 1, 2020, through October 31, 2020, totaling \$5,649,871, and to receive and file the October 2020 Financial Reports as submitted.

G. Financial Reports for the Month of November 202043

1. Summary of Disbursements for November 2020 (Exhibit A)
2. Schedule of Funds Available for Reinvestment (Exhibit B)
 - Local Agency Investment Fund (LAIF)
3. Schedule of Cash and Investments (Exhibit C)
4. Capital Schedule (Exhibit D)
 - Capital Projects – Graph (Exhibit D-1)
5. Budget vs. Actual Expenses:
 - Operations and Environmental Summary (Exhibit E-1)
 - Operations and Environmental by PC (E-1.2)
 - Residual Engineering, after transfer to Capital (Exhibit E-2)
 - Administration (Exhibit E-3)
 - Information Technology (IT) (Exhibit E-4)

ACTION: The Finance Committee recommends to the Board of Directors to ratify the November 2020 disbursements for the period from November 1, 2020, through November 30, 2020, totaling \$2,122,606, and to receive and file the November 2020 Financial Reports as submitted.

H. Financial Reports for the Month of December 202061

1. Summary of Disbursements for December 2020 (Exhibit A)
2. Schedule of Funds Available for Reinvestment (Exhibit B)
 - Local Agency Investment Fund (LAIF)
3. Schedule of Cash and Investments (Exhibit C)
4. Capital Schedule (Exhibit D)
 - Capital Projects – Graph (Exhibit D-1)
5. Budget vs. Actual Expenses:
 - Operations and Environmental Summary (Exhibit E-1)
 - Operations and Environmental by PC (E-1.2)
 - Residual Engineering, after transfer to Capital (Exhibit E-2)
 - Administration (Exhibit E-3)
 - Information Technology (IT) (Exhibit E-4)
6. Mid-year Fringe Pool and Fringe Rate Forecast

ACTION: The Finance Committee recommends to the Board of Directors to ratify the December 2020 disbursements for the period from December 1, 2020, through December 31, 2020, totaling \$3,915,268, and to receive and file the December 2020 Financial Reports as submitted.

I. Cash Roll Forward Q2 FY2020-2180

Cash Roll Forward balances attached are:

- Cash Roll Forward Notes
- Large Capital Cash Reconciliation to General Ledger (GL)
- Large Capital Cash Roll Forward Balance by Project Committee and Project

- Non-Capital Cash Roll Forward Balance by Project Committee and Project
- Non-Capital – Miscellaneous Cash Roll Forward Balance by Project Committee and Project
- Small Capital Cash Roll Forward balance by Project Committee and Project

ACTION: The Finance Committee recommends to the Board of Directors to receive and file the Q2 Fiscal Year 2020-21 Cash Roll Forward as submitted.

J. Fiscal Year 2019-20 Use Audit and Additional Cash Payout97

ACTION: The Finance Committee recommends to the Board of Directors to approve payment of the Use Audit and Additional Cash from other sources to the Member Agencies as distributed in the Supplemental Financial Statements, Statement of Net Position.

K. November 2020 Operations Reports98

- Monthly Operational Report
- SOCWA Ocean Outfall Discharges by Agency
- Beach Ocean Monitoring Report
- Recycled Water Report
- Pretreatment Report

ACTION: The Board will be requested to receive and file the November 2020 Operations Reports as submitted.

L. December 2020 Operations Reports137

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 December 2020 Operations Reports as submitted.

M. Capital Improvement Program Status Report187

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

N. Capital Improvement Program Project Financial Status and Change Orders
[Project Committee 2, 15, & 17].....202

ACTION: The Engineering Committee recommends:

1. The PC-2 Board to approve Change Order 16 to Olsson Construction totaling \$42,780; and
2. The PC-15 Board to approve Change Order 14 to PCL for a credit of \$8,803; and
3. The PC-17 Board to approve Change Orders 15 thru 20 to Filanc totaling \$111,838.

5. ENGINEERING MATTERS

- A. Coastal Treatment Plant (CTP) Sludge Force Main Replacement Project
Construction Management Proposal Review [Project Committee 15]216

ACTION: The Engineering Committee recommends to the PC-15 Board to award the time and materials contract to Butier Engineers in the amount of \$226,100 for the construction management services during construction for the CTP Sludge Force Main Project.

6. GENERAL MANAGER’S REPORTS

- A. Resolution No. 2021-01: Commendation for Ray Miller for Providing Dedicated Service to The South Orange County Wastewater Authority and The Residents of Southern Orange County218

ACTION: Staff recommends to the Board of Directors to adopt Resolution No. 2021-01 and authorize Chairman Erdman to sign the Commendation on behalf of the Board of Directors of the South Orange County Wastewater Authority.

- A. JPA Revision Process: Update from the Procopio Firm on the Progress to Date

- Verbal Report

ACTION: Information Item

- B. General Manager’s Status Report221

ACTION: Information Item

7. SOCWA BOARD WORKSHOP: AGENCY PRESENTATIONS FUTURE USE OF SOCWA SERVICES AND FACILITIES247

- Verbal Reports
- PowerPoint Presentation(s)
- Q&A

ACTION: Information Item

8. OTHER MATTERS

Open discussion or items received too late to be agendized.

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

[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
MARCH 4, 2021

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

DRAFT

Board of Directors

December 17, 2020

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors Meeting was held on December 17, 2020, at 9:30 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 9:35 a.m.

2. PLEDGE OF ALLEGIANCE – Director Dan Ferons

3. ORAL COMMUNICATIONS

None

4. CONSENT CALENDAR

Director Dunbar pulled agenda item 4e for further discussion.

Director Freshley noted agenda item 4b should be approval by the 4 members of the Executive Committee and not the Board.

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Erdman to approve the remainder of the Consent Calendar as corrected.

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

4.E. Comprehensive Annual Financial Report (CAFR) for Fiscal Years ended June 30, 2020, and 2019

Director Grantham, Chairman of the Finance Committee gave a report on prior discussions relating to submitting item for consideration of Board approval.

Mr. Pun of The Pun Group gave a presentation of the audit results, and overview of the Financial Statements. An open discussion ensued.

ACTION TAKEN

Motion was made by Director Dunbar and seconded by Director Freshley receive and file the Comprehensive Annual Financial Report (CAFR) including the Independent Auditors Report for Fiscal Year Ended June 30, 2020, and 2019.

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. ENGINEERING MATTERS

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

ACTION TAKEN

Motion was made by Director Dunbar and seconded by Director Iseman to authorize the General Manager to enter into a construction contract with JR Filanc for the Coastal Treatment Plant Sludge Force Main Project in the amount of \$3,107,346 and approves a project contingency of \$248,588.

Motion carried: Aye 3, Nay 0, Abstained 1, Absent 0
Director Dunbar Aye
Director Collings Abstain
Director Iseman Aye
Director Erdman Aye

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

ACTION TAKEN

Motion was made by Director Dunbar and seconded by Director Iseman 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 Coastal Treatment Plant Sludge Force Main Project.

Motion carried: Aye 3, Nay 0, Abstained 1, Absent 0
Director Dunbar Aye
Director Collings Abstain
Director Iseman Aye
Director Erdman Aye

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

ACTION TAKEN

Motion was made by Director Dunbar and seconded by Director Iseman to authorize the General Manager to enter into a time and materials contract with Dudek in the amount of \$387,750 for the engineering services during construction for the Coastal Treatment Plant Sludge Force Main Project.

Motion carried: Aye 3, Nay 0, Abstained 1, Absent 0
Director Dunbar Aye
Director Collings Abstain
Director Iseman Aye
Director Erdman Aye

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

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Collings to authorize the General Manager to enter into a time and materials contract with Dudek in the amount of \$89,668 for the biological monitoring services during construction for the SJCOO Junction Structure Rehabilitation Project.

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

6. GENERAL MANAGER'S REPORTS

A. Coastal Treatment Plant Flooring Recoating Project [Project Committee 15]

ACTION TAKEN

Motion was made by Director Dunbar and seconded by Director Iseman 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.

Motion carried:	Aye 3, Nay 0, Abstained 1, Absent 0
	Director Dunbar Aye
	Director Collings Abstain
	Director Iseman Aye
	Director Erdman Aye

As noted, the square foot of the project is 3,440sf.

B. Small Capital Hydrogritter Purchases from Flow Systems [Project Committees 2, 15 & 17]

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Erdman to authorize the General Manager to purchase three (3) hydrogritters at a cost of \$261,785.85 including additional shipping costs that will be determined at the time the units are shipped and to distribute costs as recommended herein.

Motion carried:	Aye 5, Nay 0, Abstained 0, Absent 2
	Director Dunbar Aye
	Director Collings Aye
	Director Iseman Aye
	Director Ferons Aye
	Director Erdman Aye
	Director Bourne Absent
	Director Rebensdorf Absent

ADJOURNMENT

There being no further business, Director Erdman adjourned the meeting at 10:57 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 Board of Directors on December 17, 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**

Finance Committee

November 3, 2020

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee Meeting was held on November 3, 2020, at 8:30 a.m. via teleconference from the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Finance Committee were present via Teams Meeting:

ROBB GRANTHAM	Santa Margarita Water District	Alternate Director
DENNIS CAFFERTY	El Toro Water District	Alternate Director
MATT COLLINGS	Moulton Niguel Water District	Director
DENNIS ERDMAN	South Coast Water District	Director

Absent:

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

Staff Participation:

BETTY BURNETT	General Manager
AMBER BAYLOR	Director of Environmental Compliance
JASON MANNING	Director of Engineering
JIM BURROR	Director of Operation
MARY CAREY	Finance Controller
KONSTANTIN SHILKOV	Senior Accountant
NADYN KIM	Accountant
ANNA SUTHERLAND	Accounts Payable
DANITA HIRSH	Executive Assistant

Also Participating:

ADRIANA OCHOA	Procopio Law Firm
PAM ARENDS-KING	South Coast Water District
KATHRYN FRESHLY	El Toro 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 8:30 a.m.

2. Public Comments

None

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

Chairman Grantham provided an overview for the purpose of the meeting. He stated there were a series of questions from the October 27 meeting from member agencies that needed to be addressed prior to submitting to the Board for approval. He requested Ms. Carey go through each question and answer for the order of business. An open discussion ensued.

ACTION TAKEN

Motion was made by Director Erdman and seconded by Director Cafferty to recommend to the Board of Directors to approve the FY 2019-2020 Use Audit and collection from and payments to SOCWA member agencies consistent with the results of the Use Audit as presented.

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 Erdman Aye

ACTION TAKEN

Motion was made by Director Cafferty and seconded by Director Erdman to recommend to the Board of Directors to receive and file the Cash Roll Forward as of June 30, 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 Erdman Aye

4. Q1 FY 2020-21; Cash Roll Forward as of September 30, 2020 including:

- Large Capital Cash Reconciliation to General Ledger (GL) and related Notes
- Cash Roll Forward for Large Capital, Small Capital and Non-Capital (includes Non-Cap Misc.)

ACTION TAKEN

Motion was made by Director Erdman and seconded by Director Shissler to recommend to the Board of Directors to receive and file the Q1 Fiscal Year 2020-21 Cash Roll Forward 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 Erdman Aye

Adjournment

There being no further business, Chairman Grantham adjourned the meeting at 9:36 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Finance Committee of November 3, 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**

Finance Committee

December 8, 2020

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee Meeting was held on December 8, 2020, at 10:30 a.m. via teleconference from the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Finance Committee were present via Teams Meeting:

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

Absent:

TONI ISEMAN	City of Laguna Beach	Director
TROY BOURNE	City of San Juan Capistrano	Director

Staff Participation:

BETTY BURNETT	General Manager
AMBER BAYLOR	Director of Environmental Compliance
JASON MANNING	Director of Engineering
JIM BURROR	Director of Operations
MARY CAREY	Finance Controller
KONSTANTIN SHILKOV	Senior Accountant
NADYN KIM	Accountant
ANNA SUTHERLAND	Accounts Payable
DANITA HIRSH	Executive Assistant

Also Participating:

ADRIANA OCHOA	Procopio Law Firm
KEN PUN	The Pun Group
KATHRYN FRESHLEY	El Toro Water District
DENNIS ERDMAN	South Coast Water District
TREVOR AGRELIUS	Moulton Niguel Water District
GAVIN CURRAN	City of Laguna Beach
JASON HAYDEN	El Toro Water District

1. Call Meeting to Order

Chairman Grantham called the meeting to order at 10:32 a.m.

2. Public Comments

None

3. Approval of Minutes

- a. Finance Committee Meeting of August 25, 2020
- b. Finance Committee Meeting of September 22, 2020
- c. Finance Committee Meeting of October 27, 2020

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Cafferty to approve Finance Committee Meeting Minutes for August 25, 2020, September 22, 2020 and October 27, 2020 as corrected.

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

4. Draft Comprehensive Annual Financial Report (CAFR) for the Fiscal Years ended June 30, 2020, and 2019, including

- Independent Auditors Report

Mr. Pun of The Pun Group gave a presentation of the audit results, and overview of the Financial Statements. An open discussion ensued.

Director Collings requested that the recording of unfunded liabilities include a share for costs proportionate to the salaries in the General Fund such that the allocation would differ from the Board approved methodology for those positions. Chairman Grantham noted that this idea could be considered with the development of the FY 2021-22 Budget in the coming calendar year.

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Arends-King to recommend to the Board of Directors to approve the CAFR for Fiscal Years Ended June 30, 2020, and 2019.

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

5. Fiscal Year 2019-2020 Supplemental Financial Statements

ACTION TAKEN

Motion was made by Director Cafferty and seconded by Director Collings to recommend to the Board of Directors to receive and file FY 2019-2020 Supplemental Financial Statements and Management Discussion and Analysis for the Year Ended June 30, 2020.

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

Adjournment

There being no further business, Chairman Grantham adjourned the meeting at 11:41a.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 Finance Committee of December 8, 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**

November 12, 2020

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee Meeting was held on November 12, 2020, at 8:30 a.m. via teleconferencing from the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Engineering Committee were present via Teams Meeting:

DAVID SHISSLER	City of Laguna Beach [arrived @ 8:37 a.m.]
DAVE REBENDS DORF	City of San Clemente
MIKE MARQUIS	City of San Juan Capistrano [arrived @ 8:39 a.m.]
BOBBY YOUNG	El Toro Water District
MIKE DUNBAR	Emerald Bay Service District
ROD WOODS	Moulton Niguel Water District
DON BUNTS	Santa Margarita Water District [arrived @ 8:34 a.m.; exited @ 8:56 a.m.]
MARC SERNA	South Coast Water District [arrived @ 8:47 a.m.; exited at 9:59 a.m.]
LORRIE LAUSTEN	Trabuco Canyon Water District

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
JIM BURROR	Director of Operations
AMBER BAYLOR	Director of Environmental Compliance
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
JESUS GARIBAY	Moulton Niguel Water District

1. Call Meeting to Order

Mr. Manning, Director of Engineering called the meeting to order at 8:32 a.m.

2. Public Comments

None

3. Operations Status Report

Mr. Burror submitted the following report via messaging after joining the meeting at 9:07 a.m.: 1) Operations staff is getting the sites ready in preparation of winter storms; 2) staff is doing a lot of work to support the three (3) active construction projects; 3) staff is continuing to implement COVID-19 protocols (i.e., masks, and social distancing); and 4) CTP has the new shower trailer and will now be addressing the blocked sewer for the Personnel Building.

This was an information item; no action was taken.

4. San Diego Regional Water Quality Control Board's Biological Quality Objectives [Project Committee 12]

Ms. Baylor gave a presentation on the San Diego Biological Quality Objectives. She noted several key points that would be relevant to the SOCWA PC-12 Members. An open discussion ensued.

This was an information item; no action was taken.

5. Capital Improvement Construction Projects Report

Mr. Manning reported there are six (6) new change orders for the JBL Package B Project, and one (1) new change order for the CTP Facility Improvement Project.

Ms. Young went through the details of change orders 10 through 15 for the JBL Package B Project. An open discussion ensued.

ACTION TAKEN

The Engineering Committee conceded to recommending the PC-2 Board to approve Change Orders 10 through 15 totaling \$187,929.

Motion Carried:	Aye 4, Nay 0, Abstained 0, Absent 0
	Michael Marquis (CSJC) Aye
	Rod Woods (MNWD) Aye
	Marc Serna (SCWD) Aye
	Don Bunts (SMWD) Aye

The Engineering Committee conceded to recommending the PC-15 Board to approve Change Order 11 totaling \$5,153.

6. Coastal Treatment Plant (CTP) Sludge Force Main Replacement Project Update [Project Committee 15]

Mr. Manning reported the project went out for bid on October 29 with bids due to be in on December 3rd. He stated that Dudek has been supporting the project over the last 20 years including providing the design and permitting for the project. He presented a proposal from Dudek that covered the Engineering Services During Construction, Biological Monitoring, and Cultural Monitoring Services. He noted the only permit that is pending is through OC Parks. An open discussion ensued.

ACTION TAKEN

The Engineering Committee requested that alternate proposals for the cultural monitoring be presented. No action was taken on the presented proposal from Dudek.

7. Coastal Treatment Plant AWT Upgrade Project Update [Project Committee 15]

Mr. Baranowski gave an oral update on the Coastal Treatment Plant AWT Project Upgrade that was completed. He noted the upgrade was to the pilot valves as noted in photos of the staff report on pages 32 and 33 of the agenda packet. An open discussion ensued.

This was an information item; no action was taken.

8. Coastal Treatment Plant (CTP) Reconfiguration Feasibility Study Update

Mr. Bryce Danker of Hazen gave a presentation on the CTP Feasibility Project Update. He noted he would be addressing comments and questions that were provided at the previous Engineering Committee meeting. The presentation could be found on pages 34 through 45 of the agenda packet. There was an open discussion on the comparisons and contrasts of CAS, MBR and potentially AGS.

ACTION TAKEN

The PC-15 Engineering Committee conceded to expanding Hazen's scope of work to isolate the top three comparison/contrast between CAS, MBR, and AGS; while performing a deeper background evaluation into AGS before picking the top 2 options.

Motion Carried: Aye 3, Nay 0, Abstained 1, Absent 0
 Dave Shissler (CLB) Aye
 Mike Dunbar (EBSD) Aye
 Rod Woods (MNWD) Abstain
 Dennis Erdman (SCWD) Aye

Mr. Erdman recommended including PC-2 members in the CTP discussions as going forward with future evaluations, PC-2 will face similar challenges.

9. Knowledge Sharing – Comparison of Polymer Types for the Regional Treatment Plant Dissolved Air Floatation Tanks [Project Committee 17]

Due to time restraints, this item was carried over to the next Engineering Committee Meeting.

Adjournment

There being no further business, Mr. Manning adjourned the meeting at 10:18 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 November 12, 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**

December 10, 2020

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee Meeting was held on December 10, 2020, at 8:30 a.m. via teleconferencing from the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Engineering Committee were present via Teams Meeting:

DAVID SHISSLER	City of Laguna Beach
MIKE MARQUIS	City of San Juan Capistrano
BOBBY YOUNG	El Toro Water District
MIKE DUNBAR	Emerald Bay Service District
KEVIN BURTON	Irvine Ranch Water District [exited @ 9:40 a.m.]
ROD WOODS	Moulton Niguel Water District
DON BUNTS	Santa Margarita Water District
MARC SERNA	South Coast Water District [exited @ 9:55 a.m.]
LORRIE LAUSTEN	Trabuco Canyon Water District

Absent:

DAVE REBENS DORF	City of San Clemente
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Staff Present:

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

Also Present:

HANNAH JOHNSON	City of Laguna Beach
DENNIS ERDMAN	South Coast Water District
MATT COLLINGS	Moulton Niguel Water District
JESUS GARIBAY	Moulton Niguel Water District

1. Call Meeting to Order

Mr. Manning, Director of Engineering called the meeting to order at 8:33 a.m.

2. Public Comments

None

3. Approval of Minutes

a. Engineering Committee Meeting of September 17, 2020

ACTION TAKEN

Motion was made by Mr. Bunts seconded by Mr. Woods to approve the Engineering Committee Minutes of September 17, 2020 as corrected.

Motion Carried: Aye 6, Nay 0, Abstained 2, Absent 2

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

b. Engineering Committee Meeting of October 8, 2020

ACTION TAKEN

Motion was made by Mr. Bunts and seconded by Mr. Woods to approve the Engineering Committee Minutes of October 8, 2020 as corrected.

Motion Carried: Aye 7, Nay 0, Abstained 1, Absent 2

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

4. Operations Status Report

Mr. Burror reported on two projects that had been completed at JBL; 1) is the installation of a "Man Down" alarm through SCADA that would eliminate the need for an employee to call their supervisor when they arrive or leave in the evening hours to confirm there were no injuries, and 2) an ongoing project of fixed gas detectors was completed at JBL; giving all locations that have the potential of atmospheric hazards now have the regulatory required alarm equipment is tied into to SCADA. An open discussion ensued.

This was an information item; no action was taken.

5. State Water Resources Control Board Investigative Order No. WQ-2020-0015 Fourth Quarter 2020 PFAS Results for SOCWA Member Agencies

Ms. Baylor gave a presentation on the PFAS Update. She noted that she would be discussing the results for the Ten (10) facilities that she participated in the investigative order. Ms. Baylor also reminded the Committee that SOCWA is the responsible agency due to holding two (2)

NPDES Permits as well as the Recycle Water Permit which includes Trabuco Canyon. An open discussion ensued.

This was an information item; no action was taken.

6. Capital Improvement Construction Projects Report

Mr. Manning and engineering staff provided project status updates on the JBL Package B, CTP Facility Improvements, and RTP Miscellaneous Improvements projects. Mr. Manning noted that the November and December change orders would be going the Board on December 17 for approval.

ACTION TAKEN

The Engineering Committee conceded to recommending the PC-15 Board to approve Change Orders 12 and 13 totaling \$23,357.

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

Mr. Manning updated the Committee on the status of the project. He stated that Dudek has been supporting the project including providing the permitting for the project. He presented a proposal from Dudek that covered the Biological Monitoring Services During Construction.

ACTION TAKEN

The PC-5 Engineering Committee conceded to recommending the PC-5 Board to award the contract for Biological Monitoring During Construction to Dudek in the amount of \$89,668.

Motion Carried: Aye 5, Nay 0, Abstained 0, Absent 1
Dave Rebensdorf (CSC) Absent
Mike Marquis Aye
Rod Woods (MNWD) Aye
Marc Serna (SCWD) Aye
Don Bunts (SMWD) Aye

8. Coastal Treatment Plant (CTP) Sludge Force Main Project Construction Bids [Project Committee 15]

Mr. Manning reported the project went out for bid on October 29 and bids were received on December 3rd. Bids were received from three construction firms with Filanc being the apparent low bidder.

ACTION TAKEN

The PC-15 Engineering Committee conceded to recommending the PC-15 Board to award the construction contract to JR Filanc in the amount of \$3,107,346 with a contingency of \$248,588 for the construction of the CTP Sludge Force Main Project.

Motion Carried: Aye 2, Nay 0, Abstained 1, Absent 1
David Shissler (CLB) Aye
Mike Dunbar (EBS) Absent
Rod Woods (MNWD) Abstain
Marc Serna (SCWD) Aye

9. Coastal Treatment Plant (CTP) Sludge Force Main Replacement Project Engineering and Biological Services During Construction [Project Committee 15]

Mr. Manning stated that Dudek has been supporting the project over the last 20 years including providing the design and permitting for the project. He presented a proposal from Dudek that covered the Engineering Services During Construction and Biological Monitoring Services During Construction. An open discussion ensued.

ACTION TAKEN

The PC-15 Engineering Committee conceded to award the time and materials contract to Dudek in the amount of \$387,750 for the engineering and biological services during construction for the CTP Sludge Force Main Project.

Motion Carried: Aye 2, Nay 0, Abstained 1, Absent 1
 Dave Shissler (CLB) Aye
 Mike Dunbar (EBS) Absent
 Rod Woods (MNWD) Abstain
 Dennis Erdman (SCWD) Aye

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

Mr. Manning reported the results of the request for proposals for the CTP Sludge Force Main Replacement Project Cultural Monitoring Service During Construction. An open discussion ensued.

ACTION TAKEN

The PC-15 Engineering Committee conceded to the time and materials contract to PSOMAS in the amount of \$277,368 for the Archeological, Paleontological, and Native American monitoring services during construction for the CTP Sludge Force Main Project.

Motion Carried: Aye 2, Nay 0, Abstained 1, Absent 1
 Dave Shissler (CLB) Aye
 Mike Dunbar (EBS) Absent
 Rod Woods (MNWD) Abstain
 Dennis Erdman (SCWD) Aye

11. Knowledge Sharing – Comparison of Polymer Types for the Regional Treatment Plant Dissolved Daft [Project Committee 17]

Mr. Baranowski gave a knowledge sharing presentation on polymers that are being used at the Regional Treatment Plant for the DAFT system.

This was an information item; no action was taken.

Adjournment

Mr. Manning thanked everyone for their continued support throughout the year and wished everyone happy holidays and noted the next Engineering Committee Meeting is set for January 14, 2021.

There being no further business, Mr. Manning adjourned the meeting at 10:21 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 December 10, 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 SPECIAL JOINT MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY**

DRAFT

Project Committee No. 2 and No. 17

September 29, 2020

The Special Joint Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee No. 2 and No. 17 was held Teleconference via Teams Meeting on September 29, 2020, at 9:00 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following Members of Project Committee No. 2 and No. 17 were present:

DAVID SHISSLER	City of Laguna Beach	PC 17
RAY MILLER	City of San Juan Capistrano	PC 2
DAVE SHISSLER	El Toro Water District	PC 17
MATT COLLINGS	Moulton Niguel Water District	PC 2 / PC 17
DAN FERONS	Santa Margarita Water District	PC 2
DENNIS ERDMAN	South Coast Water District	PC 2 / PC 17

Absent:

MIKE DUNBAR	Emerald Bay Service District	PC 17
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Staff Present:

BETTY BURNETT	General Manager
JASON MANNING	Director of Engineering
JIM BURROR	Director of Operations
RONI YOUNG	Associate Engineer
DANIEL VASQUEZ	Chief Mechanic
DANITA HIRSH	Executive Assistant

Also Present:

ADRIANA OCHOA	Procopio Law Firm
BOBBY YOUNG	El Toro Water District
DON BUNTS	Santa Margarita Water District
DAVE REBENS DORF	City of San Clemente
KATHRYN FRESHLEY	El Toro Water District
ERIC BAUMAN	City of San Juan Capistrano
CHRIS NEWTON	South Coast Water District
MIKE GASKINS	El Toro Water District
MIKE MARQUIS	City of San Juan Capistrano
TARYN KJOSLINGS	South Coast Water District
ROBERT DUNEK	City of San Clemente

1. Call Meeting to Order

The Members of Project Committee No. 2 and No. 17 conceded to Director Collings Chairing the meeting.

Director Collings called the meeting to order at 9:01 a.m.

2. Public Comments

None

3. Review Innovative Solids Objectives and Proposals – PC 2/PC 17

Mr. Manning gave a presentation reviewing the three companies who submitted proposals for the Innovative Biosolids Project. The presentation included the project objectives, potential impacts, technologies proposed, along with staff recommendation for agenda items 4 and 5. Mr. Burror provided historical background and insight into the processing and managing of Biosolids. An open discussion ensued on whether SOCWA is ready to move forward on a product or do more research on finding the appropriate application. An open discussion ensued.

Mr. Manning clarified that the goal is not to install one of the technologies, but to select a firm who would provide a 30% design of an innovative biosolids technology. He noted it would provide more insight on how one of the systems would fit into one of SOCWA's facilities.

Ms. Burnett stated that more work was needed from staff to evaluate the economics and maturity of the systems proposed, and to further discuss the variability on how we might address them. She noted that we should go back to the County and talk to them about some of the compatibilities they might have at some of their sites that they have available and as well as some of the concerns that they are challenged with in the landfill space to answer some of the ideas from the members discussion. As to these proposals, based on committee input and comments staff would take a closer look at the economics and sustainability. Additionally, she stated staff is looking for direction as to conducting additional investigation of these vendors versus waiting to see more development in feasible technology before proceeding. An open discussion ensued.

The PC 2 and PC 17 Board conceded to (Director Dunbar (EBSB) was absent):

1. Determine if any of the companies proposed are moving forward or considering an offsite pilot project that involves multiple partners;
2. Have a discussion with the County to determine if there are any available partnering options for the technologies under consideration at one of their locations that might work with moving the project forward;
3. Continue the discussion with SCAP and other organizations to identify partners who would be interested in working with SOCWA to further evaluate partner and location opportunities to continue the efforts already in progress; and
4. Return to the Committee when more information is available.

Agenda Items 4 and 5 have been put on hold until further information is available to present.

4. Project Committee 2 Innovative Biosolids Options Discussion for the JB Latham Treatment Plant

Please refer to comments noted on agenda item 3.

5. Project Committee 17 Innovative Biosolids Options Discussion for the Regional Treatment Plant

Please refer to comments noted on agenda item 3.

Adjournment

There being no further business the meeting was adjourned at 10:39 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Joint Meeting of the South Orange County Wastewater Authority Project Committee No. 2 and No. 17 of September 29, 2020 and approved by the Project Committee No. 2 and No. 17 and received and filed by the Board of Directors of 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

Project Committee No. 23

December 23, 2020

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee No. 23 was held Teleconference via Teams Meeting on December 23, 2020, at 11:00 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of Project Committee No. 23 were present:

MIKE DUNBAR	Emerald Bay Service District
DAVID SHISSLER	City of Laguna Beach

Staff present:

BETTY BURNETT	General Manager
DANITA HIRSH	Administrative Assistant

Also Present:

ADRIANA OCHOA	Procopio Law Firm
ALLISON BURNS	Stradling Yocca Carlson & Rauth

1. Call Meeting to Order

The meeting was called to order at 11:01 a.m.

2. Public Comments

None

3. Open Session:

- Consideration of Joint Defense Agreement in the matter of San Diego Water Quality Control Board (SDRWQCB) Administration Civil Liability related to the November 2019 Sewer Spill for the North Coast Interceptor

Ms. Ochoa briefly discussed the Joint Defense Agreement noting she had added her proposed revisions which were incorporated into the final version. She stated both Director Dunbar and Director Shissler had previously reviewed the agreement and she would like to move forward with a motion for approval on behalf of SOCWA.

ACTION TAKEN

Motion was made by Director Dunbar and seconded by Director Shissler to approve the Joint Defense Agreement as submitted.

Motion carried:	Aye 2, Nay 0, Abstained 0, Absent 0
	Director Dunbar Aye
	Director Shissler Aye

4. Closed Session

- Conference with Legal Counsel Regarding Anticipated Litigation of one (1) matter pursuant to Government Code Section 54056.9(d)(2)

The PC-23 Committee adjourned to Closed Session at 11:06 a.m.

Report Out of Closed Session

There were no reportable actions from Closed Session.

5. Adjournment

There being no further business the meeting was adjourned at 12:15 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 Project Committee No. 23 of December 23, 2020 and approved by the Project Committee No. 23 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

4F

Board of Directors Meeting

Meeting Date: February 4, 2021

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Mary Carey, Finance Controller
SUBJECT: Financial Reports for the Month of October 2021

Summary/Discussion

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

The reports included are as follows:

- a. Summary of Disbursements for October 2020 (Exhibit A)
- b. Schedule of Funds Available for Reinvestment (Exhibit B)
 - Local Agency Investment Fund (LAIF)
- c. Schedule of Cash and Investments (Exhibit C)
- d. Capital Schedule (Exhibit D)
 - Capital Projects – Graph (Exhibit D-1)
- e. Budget vs. Actual Expenses:
 - Operations and Environmental Summary (Exhibit E-1)
 - Operations and Environmental by PC (E-1.2)
 - Residual Engineering, after transfer to Capital (Exhibit E-2)
 - Administration (Exhibit E-3)
 - Information Technology (IT) (Exhibit E-4)

Fiscal impact

October 2020 cash disbursements were: \$5,649,871.

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

Recommended Action: The Finance Committee recommends to the Board of Directors to ratify the October 2020 disbursements for the period from October 1, 2020, through October 31, 2020, totaling \$5,649,871, and to receive and file the October 2020 Financial Reports as submitted.

Exhibit A

**South Orange County Wastewater Authority
Summary of Disbursements for October 2020
Staff Recommendation of Fiscal Matters**

	<u>Actual¹</u>
General Fund	\$ (372,473)
PC 2 - Jay B. Latham Plant	(3,075,392)
PC 5 - San Juan Creek Ocean Outfall	(34,269)
PC 8 - Pretreatment Program	(11,046)
PC 12 SO - Water Reclamation Permits	(9,228)
PC 15 - Coastal Treatment Plant/AWT	(1,250,345)
PC 17 - Joint Regional Wastewater Reclamation	(872,280)
PC 21 - Effluent Transmission Main	(326)
PC 24 - Aliso Creek Ocean Outfall	(24,512)
Total	<u>\$ (5,649,871)</u>

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
SCHEDULE OF FUNDS AVAILABLE FOR REINVESTMENT
as of October 31, 2020**

CASH IN BANK: (BEGINNING BAL.)	\$	1,356,718
L.A.I.F. FUNDS: (BEGINNING BAL.)		16,104,311
DEPOSITS, TRANSFERS & ADJUSTMENTS:		5,281,441
FUND REQUIREMENTS:		
BILLS FOR CONSIDERATION		(5,649,871)
TOTAL CASH IN BANK	\$	17,092,599

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

In accordance with requirements of the Government Code and the "SOCWA Investment Policy", I hereby certify that:

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

Betty Burnett
General Manager

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



PMIA/LAIF Performance Report as of 11/12/20



PMIA Average Monthly Effective Yields⁽¹⁾

Oct	0.620
Sep	0.685
Aug	0.784

Quarterly Performance Quarter Ended 09/30/20

LAIF Apportionment Rate ⁽²⁾ :	0.84
LAIF Earnings Ratio ⁽²⁾ :	0.00002309407394024
LAIF Fair Value Factor ⁽¹⁾ :	1.004114534
PMIA Daily ⁽¹⁾ :	0.65%
PMIA Quarter to Date ⁽¹⁾ :	0.80%
PMIA Average Life ⁽¹⁾ :	169

Pooled Money Investment Account Monthly Portfolio Composition ⁽¹⁾ 10/31/20 \$101.4 billion

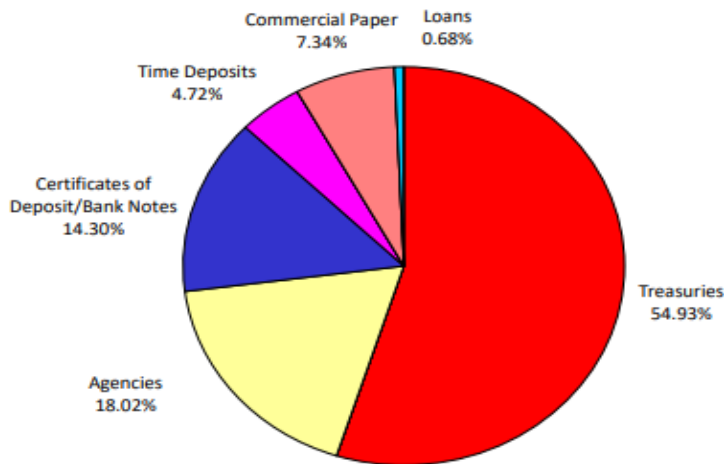


Chart does not include 0.01% of mortgages. Percentages may not total 100% due to rounding.

Daily rates are now available here. [View PMIA Daily Rates](#)

Notes: The apportionment rate includes interest earned on the CalPERS Supplemental Pension Payment pursuant to Government Code 20825 (c)(1) and interest earned on the Wildfire Fund loan pursuant to Public Utility Code 3288 (a).

Source:

⁽¹⁾ State of California, Office of the Treasurer

⁽²⁾ State of California, Office of the Controller

Exhibit C

**South Orange County Wastewater Authority
Schedule of Cash and Investments
as of October 31, 2020**

MVA	\$ 5,725	(A)
A/P Checking	1,344,321	(B)
Payroll Checking	115,612	(C)
State LAIF	15,626,941	(D)
Total Cash in Bank	\$ 17,092,599	
Petty Cash	1,600	(E)
Total Operating Cash	\$ 17,094,199	
OPEB Trust	5,478,857	(F)
Total Cash and Investments	\$ 22,573,056	

Notes:

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

**South Orange County Wastewater Authority
Capital Projects Summaries
For the Period Ended October 31, 2020
(in dollars)**

FY 2020-21 Budget vs. Actual Spending								
Description	Capital Budget	¹ Fiscal Year Spending	(Over)/ Under Budget	% Expended	Member Agency Billed	Member Agency Collections	Past Due Receivables	% Expended vs. Billed
PC 2-JB Latham	\$ 11,001,878	\$ 3,425,149	\$ 7,576,729	31.1%	\$ 1,123,978	\$ 658,593	\$ 465,385	304.7%
PC 5-San Juan Creek Outfall	1,263,698	220,478	1,043,220	17.4%	308,717	174,100	134,617	71.4%
PC 15-Coastal	9,901,131	2,452,075	7,449,056	24.8%	1,500,000	1,061,194	438,806	163.5%
PC 17-Regional	2,673,021	1,412,155	1,260,866	52.8%		-		
PC 21 Effluent Transmission	2,322,672	-	2,322,672	0.0%	100,000	66,880	33,120	0.0%
² PC 24 Aliso Creek Outfall	-	5,672	(5,672)			-		
Total Large Capital	\$ 27,162,400	\$ 7,515,530	\$ 19,646,870	27.7%	\$ 3,032,695	\$ 1,960,767	\$ 1,071,928	247.8%
Non-Capital Engineering	1,161,634	23,503	1,138,131	2.0%	94,210	84,202	10,008	24.9%
Non-Capital Misc Engineering	75,000	-	75,000	0.0%	52,960	51,358	1,602	0.0%
Small Internal Capital	2,099,000	332,165	1,766,835	15.8%	1,049,500	767,489	282,011	31.6%
Total Capital	\$ 30,498,034	\$ 7,871,198	\$ 22,626,836	25.8%	\$ 4,229,365	\$ 2,863,816	\$ 1,365,549	186.1%

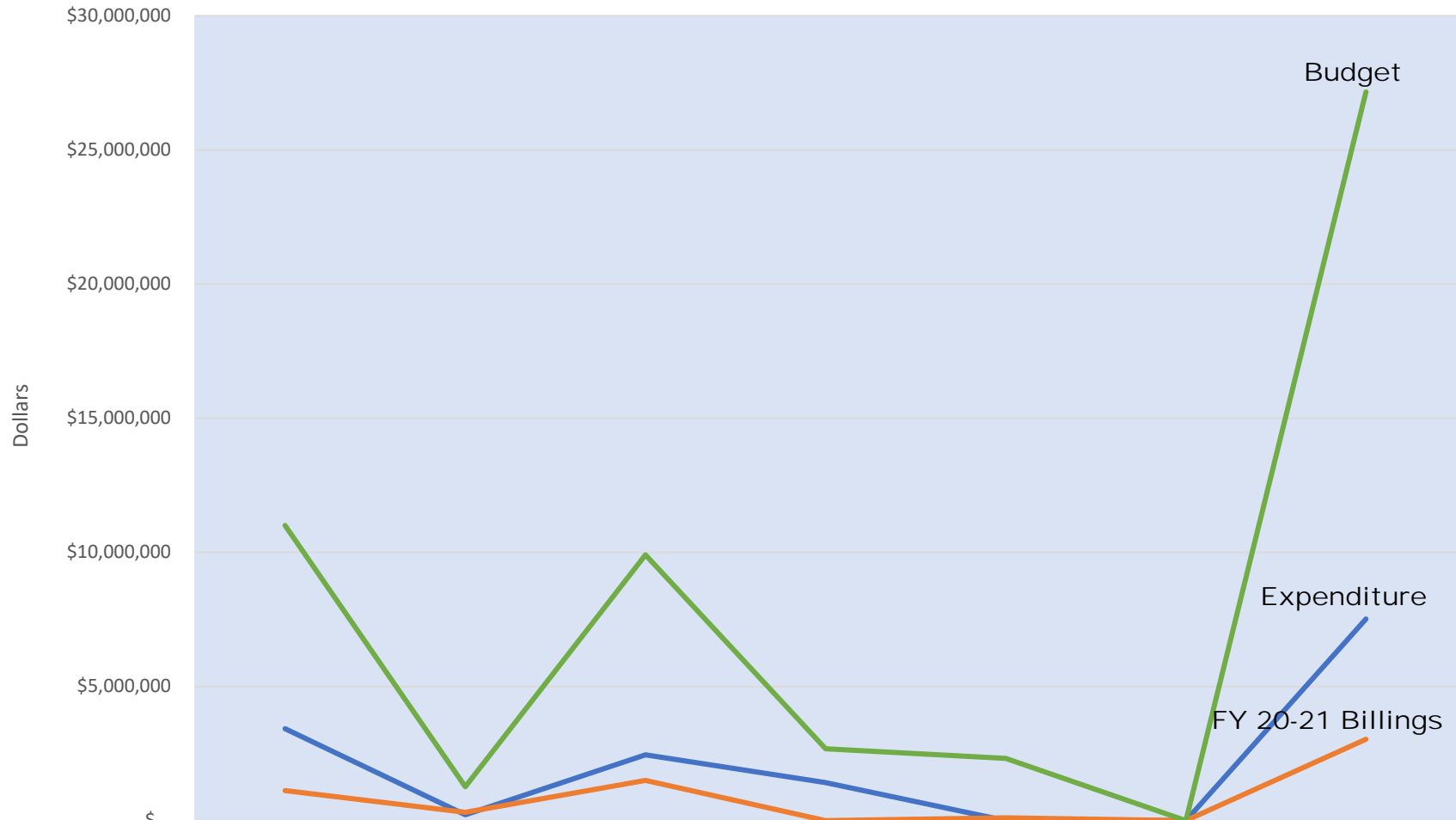
¹ Fiscal Year Spending does not include spending on carryover projects from FY 2019-20 Budget; Small Capital and Non-Capital work delayed because of COVID 19:

	Carryover	YTD Spending	Balance	% Expended
Non-Capital Engineering	\$369,408	\$61,872	\$307,536	16.7%
Non-Capital Misc Engineering	252,298	70,063	182,235	27.8%
Small Internal Capital	565,000	293,348	271,652	51.9%
	\$1,186,706	\$425,284	\$761,422	35.8%

² PC 24 is paid out of Cash on Hand collected in an earlier year

Large Capital Projects Fiscal Year '20-21 Budget vs. Year-to-Date Expenditures & Billings as of 10/31/2020

Exhibit D-1



	PC 2-JB Latham	PC 5-San Juan Creek Outfall	PC 15-Coastal	PC 17-Regional	PC 21 Effluent Transmission	PC 24 Aliso Creek Outfall	Total Large Capital
Spent - YTD 10/31/20	\$3,425,149	\$220,478	\$2,452,075	\$1,412,155	-	\$5,672	\$7,515,530
FY 20-21 Billings	\$1,123,978	\$308,717	1,500,000.00	-	100,000.00	-	\$3,032,695
Capital Budget 20-21	\$11,001,878	\$1,263,698	\$9,901,131	\$2,673,021	\$2,322,672	-	\$27,162,400

South Orange County Wastewater Authority
O & M & Environmental Safety Costs Summary
 For the Period Ended October 31, 2020
 (in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	%Expended
Salary and Fringe					
5000--***	Regular Salaries-O&M	4,510,604	1,478,660	3,031,944	32.8%
5001--***	Overtime Salaries-O&M	128,700	41,560	87,140	32.3%
5306--***	Scheduled Holiday Work	33,964	22,689	11,275	66.8%
5315--***	Comp Time - O&M	12,168	4,396	7,772	36.1%
5401--***	Fringe Benefits IN to PC's & Depts.	2,374,488	778,413	1,596,075	32.8%
5700--***	Standby Pay	67,608	22,880	44,728	33.8%
	Total Payroll Costs	7,127,532	2,348,599	4,778,933	33.0%
Other Expenses					
5002--***	Electricity	1,154,008	438,133	715,875	38.0%
5003--***	Natural Gas	234,532	71,469	163,063	30.5%
5004--***	Potable & Reclaimed Water	77,008	25,176	51,832	32.7%
5005--***	Co-generation Power Credit	(669,000)	(226,252)	(442,748)	33.8%
5006--***	Chlorine/Sodium Hypochlorite	479,900	194,057	285,843	40.4% (1)
5007--***	Polymer Products	739,004	200,713	538,291	27.2%
5008--***	Ferric Chloride	452,000	212,224	239,776	47.0% (2)
5009--***	Odor Control Chemicals	114,996	36,338	78,658	31.6%
5010--***	Other Chemicals - Misc.	2,996	-	2,996	0.0%
5011--***	Laboratory Services	40,580	16,957	23,623	41.8%
5012--***	Grit Hauling	124,996	40,881	84,115	32.7%
5013--***	Landscaping	206,004	111,097	94,907	53.9% (3)
5014--***	Engineering - Misc.	-	-	-	0.0%
5015--***	Management Support Services	370,504	77,916	292,588	21.0%
5016--***	Audit - Environmental	1,252	-	1,252	0.0%
5017--***	Legal Fees	32,355	22,720	9,635	70.2%
5018--***	Public Notices/ Public Relations	5,500	-	5,500	0.0%
5019--***	Contract Services Misc.	256,012	111,194	144,818	43.4% (4)
5021--***	Small Vehicle Expense	24,556	3,543	21,013	14.4%
5022--***	Miscellaneous Expense	18,020	2,281	15,739	12.7%
5023--***	Office Supplies - All	43,004	11,682	31,322	27.2%
5024--***	Petroleum Products	34,000	7,194	26,806	21.2%
5025--***	Uniforms	68,992	19,337	49,655	28.0%
5026--***	Small Vehicle Fuel	24,604	4,727	19,877	19.2%
5027--***	Insurance - Property/Liability	275,584	100,686	174,898	36.5%
5028--***	Small Tools & Supplies	77,500	19,943	57,557	25.7%
5030--***	Trash Disposal	6,992	1,812	5,180	25.9%
5031--***	Safety Program & Supplies	114,868	49,012	65,856	42.7% (5)
5032--***	Equipment Rental	7,004	-	7,004	0.0%
5033--***	Recruitment	2,504	1,678	826	67.0%
5034--***	Travel Expense/Tech. Conferences	32,316	1,630	30,686	5.0%
5035--***	Training Expense	40,664	3,372	37,292	8.3%
5036--***	Laboratory Supplies	100,152	26,296	73,856	26.3%
5037--***	Office Equipment	65,000	8,200	56,800	12.6%
5038--***	Permits	480,520	19,017	461,503	4.0%
5039--***	Membership Dues/Fees	23,772	7,575	16,197	31.9%
5044--***	Offshore Monitoring	44,004	41,685	2,319	94.7% (6)
5046--***	Effluent Chemistry	40,004	5,957	34,047	14.9%
5047--***	Access Road Expenses	44,004	38,692	5,312	87.9% (7)
5048--***	Storm Damage	20,008	-	20,008	0.0%
5049--***	Biosolids Disposal	1,429,996	495,680	934,316	34.7%
5050--***	Contract Services Generators - 29A	22,008	-	22,008	0.0%
5052--***	Janitorial Services	94,004	35,561	58,443	37.8%
5053--***	Contract Serv - Digester Cleaning - 29E	125,000	-	125,000	0.0%
5054--***	Diesel Truck Maint	41,004	10,853	30,151	26.5%
5055--***	Diesel Truck Fuel - 37B	11,504	3,087	8,417	26.8%
5056--***	Maintenance Equip. & Facilities (Solids)	361,000	126,712	234,288	35.1%
5057--***	Maintenance Equip. & Facilities (Liquids)	669,000	243,692	425,308	36.4%
5058--***	Maintenance Equip. & Facilities (Common)	86,008	66,253	19,755	77.0% (8)
5059--***	Maintenance Equip. & Facilities (Co-Gen)	960,000	245,521	714,479	25.6%
5060--***	Maintenance Equip. & Facilities (AWT)	75,000	42,881	32,120	57.2% (9)
5061--***	Mileage	3,548	1,052	2,496	29.6%
5067--***	Port Cleaning	70,000	-	70,000	0.0%
5068--***	MNWD Potable Water Supplies & Svcs.	42,000	5,472	36,528	13.0%
5076--***	SCADA Infrastructure	91,508	47,755	43,753	52.2% (10)
5077--***	IT Direct	10,000	10	9,990	0.1%
5105--***	Co-Generation Power Credit - Offset	669,000	226,252	442,748	33.8%
5303--***	Group Insurance Waiver	14,392	4,389	10,003	30.5%
5305--***	Medicare Tax Payments for Employees	1,336	592	744	44.3%
5309--***	Operating Leases	31,008	8,471	22,537	27.3%
5705--***	Monthly Car Allowance	31,192	11,982	19,210	38.4%
5799--***	Zephyr Wall Costs Share - O&M	(14,000)	(14,500)	500	0.0%
5802--***	Shipping/Freight	100	-	100	0.0%
6241--***	Education Reimbursement	-	161	(161)	0.0%
6500--***	IT Allocations in to PC's & Depts.	556,996	180,306	376,690	32.4%
	Total Other Expenses	10,592,323	3,449,123	7,143,200	32.6%
	Total O&M Expenses	17,719,855	5,797,722	11,922,133	32.7%

**South Orange County Wastewater Authority
O & M & Environmental Safety Costs Summary**

For the Period Ended October 31, 2020
(in dollars)

- (1) Chlorine/Sodium Hypochlorite expenses are elevated in the summer and fall but are expected to be reduced in the winter with lowered recycled water demands.
- (2) Odor levels continue to rise in the collection system resulting in higher levels of Ferric Chloride usage to control hydrogen sulfide in the treatment plants and the digester gas.
- (3) Tree removals from emergency projects and Santa Ana Winds have been elevated this year.
- (4) Additional services related to mitigating COVID-19 have increased spending, including providing visitor restrooms, increased security, etc.
- (5) Replace old equipment and PPE happens in July of each year.
- (6) Annual, one-time cost for kelp overflight required by the NPDES permit; Water Quality Fee increases.
- (7) Recently completed the annual access road asphalt repairs.
- (8) Emergency water line repairs completed at RTP.
- (9) Purchasing related to valves and actuators replacement at AWT.
- (10) Annual SCADA software license renewal completed.

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC

For the Period Ended October 31, 2020
(in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	%Expended
02 - Jay B. Latham Plant					
Salary and Fringe					
02-5000-**-***	Regular Salaries-O&M	1,518,048	519,326	998,722	34.2%
02-5001-**-***	Overtime Salaries-O&M	38,716	20,505	18,211	53.0% (1)
02-5306-**-***	Scheduled Holiday Work	13,364	8,882	4,482	66.5%
02-5315-**-***	Comp Time - O&M	5,028	2,159	2,869	42.9% (1)
02-5401-**-***	Fringe Benefits IN to PC's & Depts.	799,132	273,389	525,743	34.2%
02-5700-**-***	Standby Pay	25,352	8,743	16,610	34.5%
	Total Payroll Costs	2,399,640	833,003	1,566,637	34.7%
Other Expenses					
02-5002-**-***	Electricity	547,004	179,685	367,319	32.8%
02-5003-**-***	Natural Gas	121,036	38,517	82,519	31.8%
02-5004-**-***	Potable & Reclaimed Water	24,004	6,994	17,010	29.1%
02-5006-**-***	Chlorine/Sodium Hypochlorite	7,900	3,011	4,889	38.1%
02-5007-**-***	Polymer Products	278,000	82,178	195,822	29.6%
02-5008-**-***	Ferric Chloride	140,000	73,674	66,326	52.6% (2)
02-5009-**-***	Odor Control Chemicals	21,000	7,051	13,949	33.6%
02-5010-**-***	Other Chemicals - Misc.	1,000	-	1,000	0.0%
02-5011-**-***	Laboratory Services	12,500	4,475	8,025	35.8%
02-5012-**-***	Grit Hauling	54,000	15,313	38,687	28.4%
02-5013-**-***	Landscaping	75,008	16,108	58,900	21.5%
02-5015-**-***	Management Support Services	26,004	15,371	10,633	59.1% (3)
02-5017-**-***	Legal Fees	3,095	122	2,973	3.9%
02-5019-**-***	Contract Services Misc.	75,008	26,136	48,872	34.8%
02-5021-**-***	Small Vehicle Expense	11,000	1,829	9,171	16.6%
02-5022-**-***	Miscellaneous Expense	8,000	1,591	6,409	19.9%
02-5023-**-***	Office Supplies - All	28,000	5,286	22,714	18.9%
02-5024-**-***	Petroleum Products	11,000	1,410	9,590	12.8%
02-5025-**-***	Uniforms	32,992	8,255	24,738	25.0%
02-5026-**-***	Small Vehicle Fuel	12,004	1,231	10,773	10.3%
02-5027-**-***	Insurance - Property/Liability	89,920	33,921	55,999	37.7%
02-5028-**-***	Small Tools & Supplies	37,004	13,773	23,231	37.2%
02-5030-**-***	Trash Disposal	2,000	778	1,222	38.9%
02-5031-**-***	Safety Program & Supplies	39,004	21,432	17,572	54.9% (4)
02-5032-**-***	Equipment Rental	3,000	-	3,000	0.0%
02-5033-**-***	Recruitment	1,000	1,067	(67)	106.7%
02-5035-**-***	Training Expense	12,808	1,412	11,396	11.0%
02-5036-**-***	Laboratory Supplies	16,472	3,314	13,158	20.1%
02-5037-**-***	Office Equipment	13,000	431	12,569	3.3%
02-5038-**-***	Permits	25,504	16,730	8,774	65.6% (5)
02-5039-**-***	Membership Dues/Fees	4,384	2,543	1,841	58.0% (6)
02-5049-**-***	Biosolids Disposal	524,996	179,067	345,929	34.1%
02-5050-**-***	Contract Services Generators - 29A	10,004	-	10,004	0.0%
02-5052-**-***	Janitorial Services	41,000	18,869	22,131	46.0%
02-5053-**-***	Contract Serv - Digester Cleaning - 29E	60,000	-	60,000	0.0%
02-5054-**-***	Diesel Truck Maint	21,000	3,942	17,058	18.8%
02-5055-**-***	Diesel Truck Fuel - 37B	3,004	907	2,097	30.2%
02-5056-**-***	Maintenance Equip. & Facilities (Solids)	155,000	37,461	117,539	24.2%
02-5057-**-***	Maintenance Equip. & Facilities (Liquids)	254,000	76,470	177,530	30.1%
02-5058-**-***	Maintenance Equip. & Facilities (Common)	28,000	25,493	2,507	91.0% (7)
02-5059-**-***	Maintenance Equip. & Facilities (Co-Gen)	369,000	79,401	289,599	21.5%
02-5061-**-***	Mileage	2,044	410	1,634	20.1%
02-5076-**-***	SCADA Infrastructure	30,504	15,918	14,586	52.2% (8)
02-5077-**-***	IT Direct	4,996	-	4,996	0.0%
02-5303-**-***	Group Insurance Waiver	3,592	1,218	2,374	33.9%
02-5309-**-***	Operating Leases	25,004	8,471	16,533	33.9%
02-5705-**-***	Monthly Car Allowance	18,600	7,717	10,883	41.5%
02-5799-**-***	Zephyr Wall Costs Share - O&M	(14,000)	(14,500)	500	0.0%
02-6500-**-***	IT Allocations in to PC's & Depts.	187,624	60,738	126,886	32.4%
	Total Other Expenses	3,466,515	1,085,170	2,381,345	31.3%
	Total Expenses	5,866,155	1,918,172	3,947,983	32.7%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC

For the Period Ended October 31, 2020

(in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	%Expended
05 - San Juan Creek Ocean Outfall					
Salary and Fringe					
05-5000-**-***	Regular Salaries-O&M	94,880	42,282	52,598	44.6%
05-5001-**-***	Overtime Salaries-O&M	584	51	533	8.7%
05-5306-**-***	Scheduled Holiday Work	100	292	(192)	0.0%
05-5401-**-***	Fringe Benefits IN to PC's & Depts.	49,940	22,258	27,682	44.6%
	Total Payroll Costs	145,504	64,883	80,621	44.6%
Other Expenses					
05-5002-**-***	Electricity	1,004	-	1,004	0.0%
05-5003-**-***	Natural Gas	500	-	500	0.0%
05-5015-**-***	Management Support Services	80,000	-	80,000	0.0%
05-5017-**-***	Legal Fees	2,008	1,351	658	67.3%
05-5026-**-***	Small Vehicle Fuel	500	-	500	0.0%
05-5027-**-***	Insurance - Property/Liability	8,192	2,946	5,246	36.0%
05-5031-**-***	Safety Supplies	1,004	-	1,004	0.0%
05-5034-**-***	Travel Expense/Tech. Conferences	2,000	300	1,700	15.0%
05-5035-**-***	Training Expense	4,000	53	3,947	1.3%
05-5036-**-***	Laboratory Supplies	24,504	8,869	15,636	36.2%
05-5038-**-***	Permits	198,996	-	198,996	0.0%
05-5039-**-***	Membership Dues/Fees	5,564	-	5,564	0.0%
05-5044-**-***	Offshore Monitoring	22,000	15,615	6,385	71.0% (9)
05-5046-**-***	Effluent Chemistry	20,004	4,411	15,593	22.1%
05-5058-**-***	Maintenance Equip. & Facilities (Common)	1,004	6,215	(5,211)	619.0% (10)
05-5067-**-***	Port Cleaning	35,000	-	35,000	0.0%
05-6500-**-***	IT Allocations in to PC's & Depts.	11,716	3,793	7,923	32.4%
	Total Other Expenses	417,996	43,551	374,445	10.4%
	Total Expenses	563,500	108,435	455,065	19.2%
08 - Pre Treatment					
Salary and Fringe					
08-5000-**-***	Regular Salaries-O&M	81,396	33,679	47,717	41.4%
08-5306-**-***	Scheduled Holiday Work	356	-	356	0.0%
08-5315-**-***	Comp Time - Environment	2,476	-	2,476	0.0%
08-5401-**-***	Fringe Benefits IN to PC's & Depts.	42,852	17,730	25,122	41.4%
	Total Payroll Costs	127,080	51,409	75,671	40.5%
Other Expenses					
08-5011-**-***	Laboratory Services	3,008	100	2,908	3.3%
08-5015-**-***	Management Support Services	4,000	-	4,000	0.0%
08-5016-**-***	Audit - Environmental	1,252	-	1,252	0.0%
08-5017-**-***	Legal Fees	2,532	3,019	(487)	119.2% (11)
08-5018-**-***	Public Notices/ Public Relations	5,500	-	5,500	0.0%
08-5021-**-***	Small Vehicle Expense - 31A	1,052	-	1,052	0.0%
08-5022-**-***	Miscellaneous Expense	2,020	-	2,020	0.0%
08-5026-**-***	Small Vehicle Fuel - 37A	1,096	30	1,066	2.7%
08-5027-**-***	Insurance - Property/Liability	2,844	1,023	1,821	36.0%
08-5028-**-***	Small Tools & Supplies	3,496	294	3,202	8.4%
08-5034-**-***	Travel Expense/Tech. Conferences	2,220	300	1,920	13.5%
08-5035-**-***	Training Expense	796	175	621	22.0%
08-5038-**-***	Permits and Fines	6,000	-	6,000	0.0%
08-5039-**-***	Membership Dues/Fees	800	411	389	51.4% (6)
08-6500-**-***	IT Allocations in to PC's & Depts.	10,052	3,254	6,798	32.4%
	Total Other Expenses	46,668	8,605	38,063	18.4%
	Total Expenses	173,748	60,014	113,734	34.5%
12 - Water Reclamation Permits					
Salary and Fringe					
12-5000-**-***	Regular Salaries-O&M	50,404	15,207	35,197	30.2%
12-5401-**-***	Fringe Benefits IN to PC's & Depts.	26,528	8,006	18,522	30.2%
	Total Payroll Costs	76,932	23,213	53,719	30.2%
Other Expenses					
12-5015-**-***	Management Support Services	157,000	52,725	104,275	33.6%
12-5017-**-***	Legal Fees	2,008	7,181	(5,173)	357.6% (11)
12-5027-**-***	Insurance - Property/Liability	3,116	1,121	1,995	36.0%
12-5034-**-***	Travel Expense/Tech. Conferences	1,352	-	1,352	0.0%
12-5038-**-***	Permits	21,512	-	21,512	0.0%
12-6500-**-***	IT Allocations in to PC's & Depts.	6,236	2,015	4,221	32.3%
	Total Other Expenses	191,224	63,042	128,182	33.0%
	Total Expenses	268,156	86,255	181,901	32.2%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC

For the Period Ended October 31, 2020
(in dollars)

	FY 2020-21 Budget	Actual	(Over)/Under Budget	%Expended	
15 - Coastal Treatment Plant					
Salary and Fringe					
15-5000-**-***	Regular Salaries-O&M	939,512	299,519	639,993	31.9%
15-5001-**-***	Overtime Salaries-O&M	21,760	6,068	15,692	27.9%
15-5306-**-***	Scheduled Holiday Work	5,096	4,593	503	90.1%
15-5315-**-***	Comp Time - O&M	2,100	1,002	1,098	47.7%
15-5401-**-***	Fringe Benefits IN to PC's & Depts.	494,584	157,676	336,908	31.9%
15-5700-**-***	Standby Pay	16,900	4,258	12,643	25.2%
	Total Payroll Costs	1,479,952	473,117	1,006,835	32.0%
Other Expenses					
15-5002-**-***	Electricity	256,000	85,068	170,932	33.2%
15-5003-**-***	Natural Gas	3,000	138	2,862	4.6%
15-5004-**-***	Potable & Reclaimed Water	25,004	7,173	17,831	28.7%
15-5006-**-***	Chlorine/Sodium Hypochlorite	92,000	31,616	60,384	34.4%
15-5007-**-***	Polymer Products	1,004	-	1,004	0.0%
15-5008-**-***	Ferric Chloride	46,996	22,333	24,663	47.5% (2)
15-5009-**-***	Odor Control Chemicals	50,000	15,426	34,574	30.9%
15-5011-**-***	Laboratory Services	8,000	6,891	1,109	86.1% (12)
15-5012-**-***	Grit Hauling	20,996	9,517	11,479	45.3% (13)
15-5013-**-***	Landscaping	56,000	13,340	42,660	23.8%
15-5015-**-***	Management Support Services	2,500	99	2,401	4.0%
15-5017-**-***	Legal Fees	15,700	376	15,324	2.4%
15-5019-**-***	Contract Services Misc.	85,000	43,528	41,472	51.2% (14)
15-5021-**-***	Small Vehicle Expense - 31A	5,504	497	5,007	9.0%
15-5022-**-***	Miscellaneous Expense	1,000	226	774	22.6%
15-5023-**-***	Office Supplies - All	4,004	1,939	2,065	48.4%
15-5024-**-***	Petroleum Products	3,000	3,264	(264)	108.8% (15)
15-5025-**-***	Uniforms	8,996	2,390	6,606	26.6%
15-5026-**-***	Small Vehicle Fuel - 37A	2,000	366	1,634	18.3%
15-5027-**-***	Insurance - Property/Liability	46,396	16,684	29,712	36.0%
15-5028-**-***	Small Tools & Supplies	8,000	1,922	6,078	24.0%
15-5030-**-***	Trash Disposal	2,996	690	2,306	23.0%
15-5031-**-***	Safety Program & Supplies	33,352	10,131	23,221	30.4%
15-5032-**-***	Equipment Rental	1,000	-	1,000	0.0%
15-5033-**-***	Recruitment	500	233	267	46.5%
15-5034-**-***	Travel Expense/Tech. Conferences	5,748	148	5,600	2.6%
15-5035-**-***	Training Expense	8,356	296	8,060	3.5%
15-5036-**-***	Laboratory Supplies	11,004	2,674	8,330	24.3%
15-5037-**-***	Office Equipment	2,000	-	2,000	0.0%
15-5038-**-***	Permits	8,000	283	7,717	3.5%
15-5039-**-***	Membership Dues/Fees	2,600	2,262	338	87.0% (6)
15-5047-**-***	Access Road Expenses	44,004	38,692	5,312	87.9% (16)
15-5048-**-***	Storm Damage	20,008	-	20,008	0.0%
15-5050-**-***	Contract Services Generators - 29A	4,004	-	4,004	0.0%
15-5052-**-***	Janitorial Services	12,004	4,848	7,156	40.4%
15-5054-**-***	Diesel Truck Maint - 31B	1,004	-	1,004	0.0%
15-5055-**-***	Diesel Truck Fuel - 37B	496	-	496	0.0%
15-5057-**-***	Maintenance Equip. & Facilities (Liquids)	179,000	53,027	125,973	29.6%
15-5058-**-***	Maintenance Equip. & Facilities (Common)	22,000	845	21,155	3.8%
15-5060-**-***	Maintenance Equip. & Facilities (AWT) 41-E	37,000	2,535	34,465	6.9%
15-5061-**-***	Mileage	500	124	376	0.0%
15-5076-**-***	SCADA Infrastructure	30,500	15,918	14,582	52.2% (8)
15-5303-**-***	Group Insurance Waiver	3,600	1,149	2,451	31.9%
15-5305-**-***	Medicare Tax Payments for Employees	1,336	592	744	44.3%
15-5705-**-***	Monthly Car Allowance	4,204	1,422	2,782	33.8%
15-6500-**-***	IT Allocations in to PC's & Depts.	116,012	37,556	78,456	32.4%
	Total Other Expenses	1,292,328	436,216	856,112	33.8%
	Total Expenses	2,772,280	909,334	1,862,946	32.8%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC

For the Period Ended October 31, 2020

(in dollars)

	FY 2020-21 Budget	Actual	(Over)/Under Budget	%Expended	
17 - Joint Regional Wastewater Reclamation and Sludge Handling					
Salary and Fringe					
17-5000-**-***	Regular Salaries-O&M	1,721,896	525,273	1,196,623	30.5%
17-5001-**-***	Overtime Salaries-O&M	66,064	14,638	51,426	22.2%
17-5306-**-***	Scheduled Holiday Work	14,880	8,629	6,251	58.0%
17-5315-**-***	Comp Time - O&M	2,564	1,235	1,329	0.0%
17-5401-**-***	Fringe Benefits IN to PC's & Depts.	906,456	276,520	629,936	30.5%
17-5700-**-***	Standby Pay	25,356	9,880	15,476	39.0%
	Total Payroll Costs	2,737,216	836,175	1,901,041	30.5%
Other Expenses					
17-5002-**-***	Electricity	350,000	173,380	176,620	49.5% (17)
17-5003-**-***	Natural Gas	109,996	32,814	77,182	29.8%
17-5004-**-***	Potable & Reclaimed Water	28,000	11,010	16,990	39.3%
17-5005-**-***	Co-generation Power Credit	(669,000)	(226,252)	(442,748)	33.8%
17-5006-**-***	Chlorine/Sodium Hypochlorite	380,000	159,431	220,569	42.0% (18)
17-5007-**-***	Polymer Products	460,000	118,535	341,465	25.8%
17-5008-**-***	Ferric Chloride	265,004	116,217	148,787	43.9% (2)
17-5009-**-***	Odor Control Chemicals	43,996	13,862	30,134	31.5%
17-5010-**-***	Other Chemicals - Misc.	1,996	-	1,996	0.0%
17-5011-**-***	Laboratory Services	17,072	5,491	11,581	32.2%
17-5012-**-***	Grit Hauling - 21A	50,000	16,051	33,949	32.1%
17-5013-**-***	Landscaping	74,996	81,648	(6,652)	108.9% (19)
17-5015-**-***	Management Support Services	21,000	9,599	11,401	45.7%
17-5017-**-***	Legal Fees	5,004	10,672	(5,668)	213.3%
17-5019-**-***	Contract Services Misc.	95,000	41,530	53,470	43.7% (14)
17-5021-**-***	Small Vehicle Expense	7,000	1,217	5,783	17.4%
17-5022-**-***	Miscellaneous Expense	7,000	465	6,536	6.6%
17-5023-**-***	Office Supplies - All	11,000	4,457	6,543	40.5%
17-5024-**-***	Petroleum Products	20,000	2,520	17,480	12.6%
17-5025-**-***	Uniforms	27,004	8,693	18,311	32.2%
17-5026-**-***	Small Vehicle Fuel	9,004	3,100	5,904	34.4%
17-5027-**-***	Insurance - Property/Liability	115,592	41,567	74,025	36.0%
17-5028-**-***	Small Tools & Supplies	29,000	3,954	25,046	13.6%
17-5030-**-***	Trash Disposal	1,996	344	1,652	17.2%
17-5031-**-***	Safety Program & Supplies	40,504	17,450	23,054	43.1% (4)
17-5032-**-***	Equipment Rental	3,004	-	3,004	0.0%
17-5033-**-***	Recruitment	1,004	378	626	37.6%
17-5034-**-***	Travel Expense/Tech. Conferences	9,496	632	8,864	6.7%
17-5035-**-***	Training Expense	12,700	1,382	11,318	10.9%
17-5036-**-***	Laboratory Supplies	23,672	4,161	19,511	17.6%
17-5037-**-***	Office Equipment	50,000	7,769	42,231	15.5%
17-5038-**-***	Permits	21,508	2,004	19,504	9.3%
17-5039-**-***	Membership Dues/Fees	4,860	2,359	2,501	48.5% (6)
17-5049-**-***	Biosolids Disposal	905,000	316,613	588,387	35.0%
17-5050-**-***	Contract Services Generators - 29A	8,000	-	8,000	0.0%
17-5052-**-***	Janitorial Services	41,000	11,845	29,155	28.9%
17-5053-**-***	Contract Serv - Digester Cleaning - 29E	65,000	-	65,000	0.0%
17-5054-**-***	Diesel Truck Maint	19,000	6,911	12,089	36.4%
17-5055-**-***	Diesel Truck Fuel - 37B	8,004	2,180	5,824	27.2%
17-5056-**-***	Maintenance Equip. & Facilities (Solids)	206,000	89,251	116,749	43.3%
17-5057-**-***	Maintenance Equip. & Facilities (Liquids)	236,000	114,195	121,805	48.4%
17-5058-**-***	Maintenance Equip. & Facilities (Common)	34,000	33,700	300	99.1% (20)
17-5059-**-***	Maintenance Equip. & Facilities (Co-Gen)	591,000	166,030	424,970	28.1%
17-5060-**-***	Maintenance Equip. & Facilities (AWT)	38,000	40,446	(2,446)	106.4% (21)
17-5061-**-***	Mileage	1,004	518	486	51.6%
17-5068-**-***	MNWD Potable Water Supplies & Svcs.	42,000	5,472	36,528	13.0%
17-5076-**-***	SCADA Infrastructure	30,504	15,919	14,585	52.2% (8)
17-5077-**-***	IT Direct	5,004	-	5,004	0.0%
17-5105-**-***	Co-Generation Power Credit - Offset	669,000	226,252	442,748	33.8%
17-5303-**-***	Group Insurance Waiver	7,200	2,022	5,178	28.1%
17-5309-**-***	Operating Leases	6,004	-	6,004	0.0%
17-5705-**-***	Monthly Car Allowance	8,388	2,843	5,545	33.9%
17-6241-**-***	Education Reimbursement	-	161	(161)	0.0%
17-6500-**-***	IT Allocations in to PC's & Depts.	212,628	68,830	143,798	32.4%
	Total Other Expenses	4,760,144	1,769,624	2,990,520	37.2%
	Total Expenses	7,497,360	2,605,800	4,891,560	34.8%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC

For the Period Ended October 31, 2020
(in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	%Expended
21 - Effluent Transmission Main					
Salary and Fringe					
21-5000-**-***	Regular Salaries-O&M	1,384	326	1,058	23.6%
21-5401-**-***	Fringe Benefits IN to PC's & Depts.	732	172	560	23.5%
	Total Payroll Costs	2,116	498	1,618	23.5%
Other Expenses					
21-5014-**-***	Engineering - Misc.	-	-	-	0.0%
21-5019-**-***	Contract Services Misc. - 29	1,004	-	1,004	0.0%
21-5027-**-***	Insurance - Property/Liability	968	348	620	36.0%
21-5035-**-***	Training Expense	-	-	-	0.0%
	Total Other Expenses	1,972	348	1,624	17.7%
	Total Expenses	4,088	846	3,242	20.7%
24 - Aliso Creek Ocean Outfall					
Salary and Fringe					
24-5000-**-***	Regular Salaries-O&M	103,084	43,048	60,036	41.8%
24-5001-**-***	Overtime Salaries-O&M	1,576	298	1,278	18.9%
24-5306-**-***	Scheduled Holiday Work	168	292	(124)	0.0%
24-5401-**-***	Fringe Benefits IN to PC's & Depts.	54,264	22,662	31,602	41.8%
	Total Payroll Costs	159,092	66,300	92,792	41.7%
Other Expenses					
24-5015-**-***	Management Support Services	80,000	122	79,878	0.2%
24-5017-**-***	Legal Fees	2,008	-	2,008	0.0%
24-5027-**-***	Insurance - Property/Liability	8,556	3,077	5,479	36.0%
24-5031-**-***	Safety Supplies	1,004	-	1,004	0.0%
24-5034-**-***	Travel Expense/Tech. Conferences	2,004	300	1,704	15.0%
24-5035-**-***	Training Expense	2,004	53	1,951	2.6%
24-5036-**-***	Laboratory Supplies	24,500	7,279	17,221	29.7%
24-5038-**-***	Permits	199,000	-	199,000	0.0%
24-5039-**-***	Membership Dues/Fees	5,564	-	5,564	0.0%
24-5044-**-***	Offshore Monitoring	22,004	26,070	(4,066)	118.5% (9)
24-5046-**-***	Effluent Chemistry	20,000	1,546	18,454	7.7%
24-5058-**-***	Maintenance Equip. & Facilities (Common) 41-C	1,004	-	1,004	0.0%
24-5067-**-***	Port Cleaning	35,000	-	35,000	0.0%
24-5802-**-***	Shipping/Freight	100	-	100	0.0%
24-6500-**-***	IT Allocations in to PC's & Depts.	12,728	4,121	8,607	32.4%
	Total Other Expenses	415,476	42,567	372,909	10.2%
	Total Expenses	574,568	108,867	465,701	18.9%
	Total O&M Expenses	17,719,855	5,797,722	11,922,133	32.7%

**South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC**

For the Period Ended October 31, 2020

- (1) O&M continues to support nighttime shutdowns and flow isolations to support ongoing construction activities at JBL.
- (2) Odor levels continue to rise in the collection system resulting in higher levels of Ferric Chloride usage to control hydrogen sulfide in the treatment plants and the digester gas.
- (3) ADS was retained to provide alternative flow measurement for JBL's Plant #2 during an extended construction shutdown.
- (4) Replace old equipment and PPE happens in July of each year.
- (5) SOCWA air quality permits are primarily paid in July and November each year.
- (6) Membership Dues/Fees are primarily paid in July and October of each year.
- (7) Several larger emergency repairs were needed on the access gates, fire sprinklers, and HVAC units at JBL.
- (8) Annual SCADA software license renewal completed.
- (9) Annual, one-time cost for kelp overflight required by the NPDES permit; Water Quality Fee increases.
- (10) The surge tower site was re-fenced and cleared to discourage unauthorized entry.
- (11) Additional cost related to required pretreatment ordinance update as required by the SWRCB and PC agreement review.
- (12) Annual priority pollutants testing as required by NPDES permit.
- (13) A recently completed small capital project has significantly increased the amount of grit being removed at the CTP headworks prior to the wastewater entering the plant and wearing pumping equipment.
- (14) Additional services related to mitigating COVID-19 have increased spending.
- (15) Additional fuel purchases have been required at CTP due to several extended power outages and construction-related shutdowns.
- (16) Recently completed the annual access road asphalt repairs.
- (17) Engine repairs and equipment overhauls have required engine shutdowns and electricity purchases.
- (18) Chlorine/Sodium Hypochlorite expenses are elevated in the summer and fall but are expected to be reduced in the winter with lowered recycled water demands.
- (19) Tree removals from emergency projects and Santa Ana Winds have been elevated this year.
- (20) Emergency water line repairs completed at RTP.
- (21) Purchasing related to valves and actuators replacement at AWT.

**South Orange County Wastewater Authority
Budget vs. Actual Comparison - Engineering**

For the Period Ended October 31, 2020

(in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
01-5000-03-00-00	Regular Salaries-O&M	196,836	56,690	140,146	28.8%
01-5401-03-00-00	Fringe Benefits IN to PC's & Depts.	103,621	29,844	73,777	28.8%
	Total Payroll Costs	300,457	86,534	213,923	28.8%
Other Expenses					
01-5022-03-00-00	Miscellaneous Expense	3,184	325	2,859	10.2%
01-5023-03-00-00	Office Supplies - All	208	-	208	0.0%
01-5031-03-00-00	Safety Supplies	306	-	306	0.0%
01-5034-03-00-00	Travel Expense/Tech. Conferences	6,439	-	6,439	0.0%
01-5035-03-00-00	Training Expense	2,244	-	2,244	0.0%
01-5037-03-00-00	Office Equipment	408	-	408	0.0%
01-5039-03-00-00	Membership Dues/Fees	1,377	-	1,377	0.0%
01-5061-03-00-00	Mileage	510	28	482	5.5%
01-5309-03-00-00	Operating Leases	6,829	3,809	3,020	55.8%
01-5705-03-00-00	Monthly Car Allowance	4,200	1,422	2,778	33.8%
01-5802-03-00-00	Shipping/Freight	312	-	312	0.0%
01-6500-03-00-00	IT Allocations in to PC's & Depts.	50,794	16,443	34,351	32.4%
	Total Other Expenses	76,810	22,026	54,785	28.7%
	Total Engineering Expenses	377,267	108,561	268,708	28.8%

South Orange County Wastewater Authority
Budget vs. Actual Comparison- Administration
 For the Period Ended October 31, 2020
 (in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
01-6000-04-00-00	Regular Salaries-Admin or IT	944,542	304,907	639,635	32.3%
01-6001-04-00-00	Overtime Salaries-Admin or IT	20,000	14,278	5,722	71.4% (1)
01-6315-04-00-00	Comp Time - Admin	15,000	2,804	12,196	18.7%
01-6401-04-00-00	Fringe Benefits IN to ADMIN or IT	497,236	160,512	336,724	32.3%
	Total Payroll Costs	1,476,778	482,501	994,277	32.7%
Other Expenses					
01-5018-04-00-00	Public Notices/ Public Relations	-	2,180	(2,180)	0.0% (2)
01-6101-04-00-00	HR Recruitment & Employee Relations	26,500	81	26,419	0.3%
01-6102-04-00-00	Subscriptions	2,040	1,366	674	66.9%
01-6200-04-00-00	Management Support Services	102,000	24,537	77,463	24.1%
01-6201-04-00-00	Audit	44,900	25,000	19,900	55.7%
01-6202-04-00-00	Legal	200,000	140,668	59,332	70.3%
01-6204-04-00-00	Postage	4,000	638	3,362	15.9%
01-6223-04-00-00	Office Supplies - Admin	6,120	3,038	3,082	49.6%
01-6224-04-00-00	Office Equipment Admin or IT	1,000	767	233	76.7%
01-6234-04-00-00	Memberships & Trainings	88,950	5,921	83,029	6.7%
01-6239-04-00-00	Travel & Conference	10,965	599	10,366	5.5%
01-6241-04-00-00	Education Reimbursement	3,000	-	3,000	0.0%
01-6310-04-00-00	Miscellaneous	23,460	6,796	16,664	29.0%
01-6311-04-00-00	Mileage	1,211	-	1,211	0.0%
01-6317-04-00-00	Contract Services Misc	5,610	1,700	3,910	30.3%
01-6500-04-00-00	IT Allocations in to PC's & Depts.	116,635	37,757	78,878	32.4%
01-6601-04-00-00	Shipping/Freight	3,740	750	2,990	20.0%
01-6705-04-00-00	Monthly Car Allowance	12,000	4,062	7,938	33.8%
	Total Other Expenses	652,131	255,859	396,272	39.2%
Total Admin Expenses		2,128,909	738,359	1,390,550	34.7%

(1) Overtime salary and comp should be considered together, 48.8%

(2) Publication fee for ordinance

South Orange County Wastewater Authority
Budget vs. Actual Comparison-IT
 For the Period Ended October 31, 2020
 (in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	% Expended
Salary & Fringe					
01-6000-05-00-00	Regular Salaries-Admin or IT	93,909	34,936	58,973	37.2%
01-6001-05-00-00	Overtime Salaries-Admin or IT	-	-	-	0.0%
01-6315-05-00-00	Comp Time - IT	5,000	-	5,000	0.0%
01-6401-05-00-00	Fringe Benefits IN to ADMIN or IT	49,437	18,391	31,046	37.2%
	Total Salary & Fringe	148,346	53,327	95,019	35.9%
Other Expenses					
01-5028-05-00-00	Small Tools & Supplies	1,000	-	1,000	0.0%
01-5035-05-00-00	Training Expense	2,000	-	2,000	0.0%
01-5037-05-00-00	Office Equipment	600	-	600	0.0%
01-6234-05-00-00	Memberships & Trainings	1,375	-	1,375	0.0%
01-6239-05-00-00	Travel & Conference	1,750	-	1,750	0.0%
01-6300-05-00-00	Software Maintenance Agreements	38,779	16,556	22,223	42.7% (1)
01-6301-05-00-00	Hardware Maintenance Agreements	7,126	602	6,524	8.5%
01-6302-05-00-00	Cloud Subscriptions (Internet)	148,369	29,507	118,862	19.9%
01-6303-05-00-00	Telecommunications	150,534	46,648	103,886	31.0%
01-6305-05-00-00	IT Professional Services	108,060	57,114	50,946	52.9% (2)
01-6306-05-00-00	Small Hardware Purchases (< \$5k)	29,200	4,776	24,424	16.4%
01-6307-05-00-00	Small Software Purchases & Licenses (<\$5k)	26,908	6,570	20,338	24.4%
01-6308-05-00-00	IT Memberships	160	-	160	0.0%
01-6309-05-00-00	Operating Leases	55,200	17,569	37,631	31.8% (3)
01-6310-05-00-00	Miscellaneous	5,000	-	5,000	0.0%
01-6312-05-00-00	Computer & Photocopy Supplies	-	1,836	(1,836)	0.0%
	Total Other Expenses	576,061	181,179	394,882	31.5%
	Total Expenses before Allocation	724,407	234,506	489,901	32.4%
IT Allocations (Out) to PC's & Depts					
01-6400-05-00-00	IT Allocations (OUT) to PC's & Depts.	(724,407)	(234,506)	(489,901)	32.4%
	Total IT Allocations (Out) to PC's & Depts	(724,407)	(234,506)	(489,901)	32.4%

- (1) Annual subscription costs that renew at the beginning of the fiscal year.
- (2) Costs for server rack migration and wiring clean-up at CTP and RTP.
- (3) Annual service contract for facility printer/copiers.

Agenda Item

4G

Board of Directors Meeting

Meeting Date: February 4, 2021

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Mary Carey, Finance Controller

SUBJECT: Financial Reports for the Month of November 2020

Summary/Discussion

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

The reports included are as follows:

- a. Summary of Disbursements for November 2020 (Exhibit A)
- b. Schedule of Funds Available for Reinvestment (Exhibit B)
 - Local Agency Investment Fund (LAIF)
- c. Schedule of Cash and Investments (Exhibit C)
- d. Capital Schedule (Exhibit D)
 - Capital Projects – Graph (Exhibit D-1)
- e. Budget vs. Actual Expenses:
 - Operations and Environmental Summary (Exhibit E-1)
 - Operations and Environmental by PC (E-1.2)
 - Residual Engineering, after transfer to Capital (Exhibit E-2)
 - Administration (Exhibit E-3)
 - Information Technology (IT) (Exhibit E-4)

Fiscal impact

November 2020 cash disbursements were: \$2,122,606.

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

Recommended Action: The Finance Committee recommends to the Board of Directors to ratify the November 2020 disbursements for the period from November 1, 2020, through November 30, 2020, totaling \$2,122,606, and to receive and file the November 2020 Financial Reports as submitted.

Exhibit A

**South Orange County Wastewater Authority
Summary of Disbursements for November 2020
Staff Recommendation of Fiscal Matters**

	<u>Actual¹</u>
General Fund	\$ (139,103)
PC 2 - Jay B. Latham Plant	(566,711)
PC 5 - San Juan Creek Ocean Outfall	(189,414)
PC 8 - Pretreatment Program	(10,473)
PC 12 SO - Water Reclamation Permits	(26,731)
PC 15 - Coastal Treatment Plant/AWT	(428,176)
PC 17 - Joint Regional Wastewater Reclamation	(732,297)
PC 21 - Effluent Transmission Main	-
PC 24 - Aliso Creek Ocean Outfall	(29,699)
Total	<u>\$ (2,122,606)</u>

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
SCHEDULE OF FUNDS AVAILABLE FOR REINVESTMENT
as of November 30, 2020**

CASH IN BANK: (BEGINNING BAL.)	\$	1,465,658
L.A.I.F. FUNDS: (BEGINNING BAL.)		15,626,941
DEPOSITS, TRANSFERS & ADJUSTMENTS:		4,111,170
FUND REQUIREMENTS:		
BILLS FOR CONSIDERATION		(2,122,606)
TOTAL CASH IN BANK	\$	19,081,163

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

In accordance with requirements of the Government Code and the "SOCWA Investment Policy", I hereby certify that:

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

Betty Burnett
General Manager

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



PMIA/LAIF Performance Report as of 12/11/20



PMIA Average Monthly Effective Yields⁽¹⁾

Nov	0.576
Oct	0.620
Sep	0.685

Quarterly Performance Quarter Ended 09/30/20

LAIF Apportionment Rate ⁽²⁾ :	0.84
LAIF Earnings Ratio ⁽²⁾ :	0.00002309407394024
LAIF Fair Value Factor ⁽¹⁾ :	1.004114534
PMIA Daily ⁽¹⁾ :	0.65%
PMIA Quarter to Date ⁽¹⁾ :	0.80%
PMIA Average Life ⁽¹⁾ :	169

Pooled Money Investment Account Monthly Portfolio Composition ⁽¹⁾ 11/30/20 \$103.0 billion

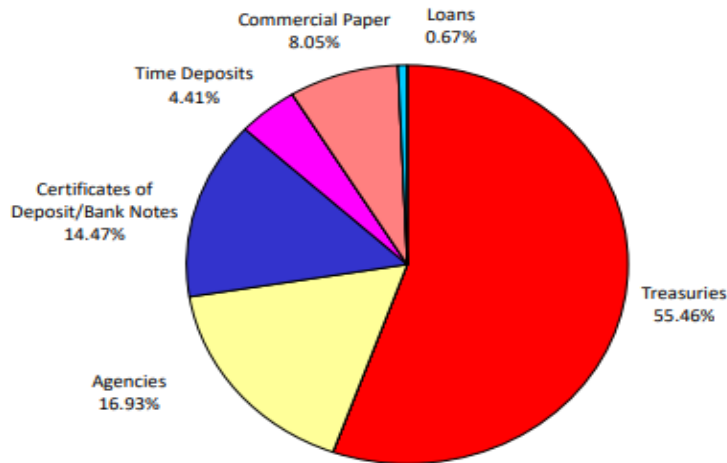


Chart does not include 0.01% of mortgages. Percentages may not total 100% due to rounding.

Daily rates are now available here. [View PMIA Daily Rates](#)

Notes: The apportionment rate includes interest earned on the CalPERS Supplemental Pension Payment pursuant to Government Code 20825 (c)(1) and interest earned on the Wildfire Fund loan pursuant to Public Utility Code 3288 (a).

Source:

⁽¹⁾ State of California, Office of the Treasurer

⁽²⁾ State of California, Office of the Controller

Exhibit C

**South Orange County Wastewater Authority
Schedule of Cash and Investments
as of November 30, 2020**

MVA	\$ 2,253	(A)
A/P Checking	1,513,426	(B)
Payroll Checking	58,543	(C)
State LAIF	17,506,941	(D)
Total Cash in Bank	\$ 19,081,163	
Petty Cash	1,600	(E)
Total Operating Cash	\$ 19,082,763	
OPEB Trust	5,944,304	(F)
Total Cash and Investments	\$ 25,027,067	

Notes:

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

**South Orange County Wastewater Authority
Capital Projects Summaries
For the Period Ended November 30, 2020
(in dollars)**

FY 2020-21 Budget vs. Actual Spending								
Description	Capital Budget	¹ Fiscal Year Spending	(Over)/ Under Budget	% Expended	Member Agency Billed	Member Agency Collections	Past Due Receivables	% Expended vs. Billed
PC 2-JB Latham	\$ 11,001,878	\$ 3,505,783	\$ 7,496,095	31.9%	\$ 1,123,978	\$ 1,123,978	\$ -	311.9%
PC 5-San Juan Creek Outfall	1,263,698	240,656	1,023,042	19.0%	308,717	308,717		78.0%
PC 15-Coastal	9,901,131	2,554,529	7,346,602	25.8%	1,500,000	1,500,000		170.3%
PC 17-Regional	2,673,021	1,464,630	1,208,391	54.8%		-		
PC 21 Effluent Transmission	2,322,672	-	2,322,672	0.0%	100,000	100,000		0.0%
² PC 24 Aliso Creek Outfall	-	5,672	(5,672)			-		
Total Large Capital	\$ 27,162,400	\$ 7,771,271	\$ 19,391,129	28.6%	\$ 3,032,695	\$ 3,032,695	\$ -	256.2%
Non-Capital Engineering	1,161,634	23,503	1,138,131	2.0%	94,210	94,210		24.9%
Non-Capital Misc Engineering	75,000	-	75,000	0.0%	52,960	52,960		0.0%
Small Internal Capital	2,099,000	381,311	1,717,690	18.2%	1,049,500	1,049,500		36.3%
Total Capital	\$ 30,498,034	\$ 8,176,084	\$ 22,321,950	26.8%	\$ 4,229,365	\$ 4,229,365	\$ -	193.3%

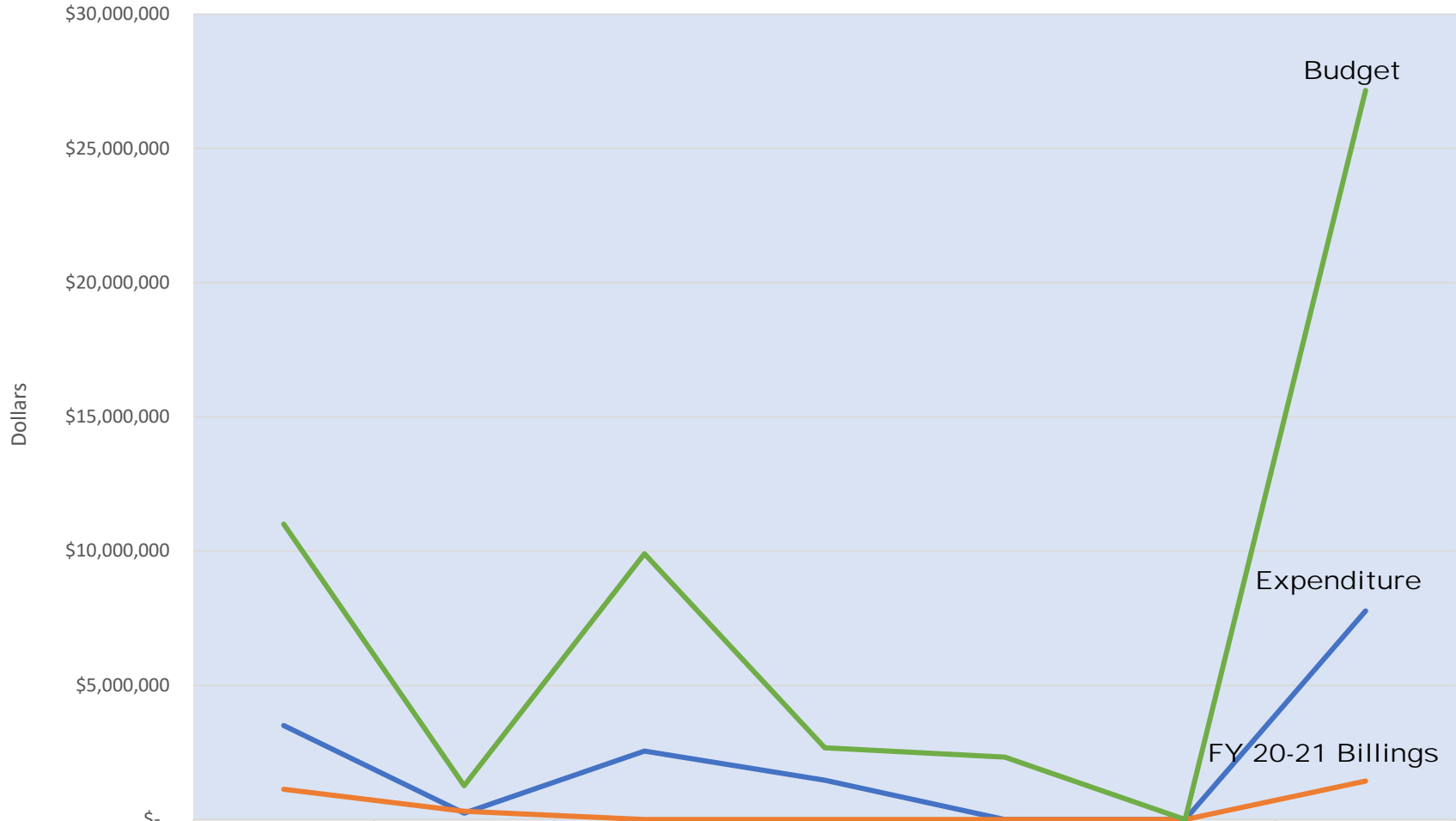
¹ Fiscal Year Spending does not include spending on carryover projects from FY 2019-20 Budget; Small Capital and Non-Capital work delayed because of COVID 19:

	Carryover	YTD Spending	Balance	% Expended
Non-Capital Engineering	\$369,408	\$63,552	\$305,856	17.2%
Non-Capital Misc Engineering	252,298	70,063	182,235	27.8%
Small Internal Capital	565,000	317,538	247,462	56.2%
	\$1,186,706	\$451,153	\$735,553	38.0%

² PC 24 is paid out of Cash on Hand collected in an earlier year

Large Capital Projects Fiscal Year '20-21 Budget vs. Year-to-Date Expenditures & Billings as of 11/30/2020

Exhibit D-1



	PC 2-JB Latham	PC 5-San Juan Creek Outfall	PC 15-Coastal	PC 17-Regional	PC 21 Effluent Transmission	PC 24 Aliso Creek Outfall	Total Large Capital
Spent - YTD 11/30/20	\$3,505,783	\$240,656	\$2,554,529	\$1,464,630	-	\$5,672	\$7,771,271
FY 20-21 Billings	\$1,123,978	\$308,717	-	-	-	-	\$1,432,695
Capital Budget 20-21	\$11,001,878	\$1,263,698	\$9,901,131	\$2,673,021	\$2,322,672	-	\$27,162,400

**South Orange County Wastewater Authority
O & M & Environmental Safety Costs Summary**
For the Period Ended November 30, 2020
(in dollars)

	FY 2020-21 Budget	Actual	(Over)/Under Budget	%Expended	
Salary and Fringe					
5000--***	Regular Salaries-O&M	4,510,604	1,851,720	2,658,884	41.1%
5001--***	Overtime Salaries-O&M	128,700	47,821	80,879	37.2%
5306--***	Scheduled Holiday Work	33,964	34,035	(71)	100.2%
5315--***	Comp Time - O&M	12,168	6,261	5,907	51.5%
5401--***	Fringe Benefits IN to PC's & Depts.	2,374,488	974,803	1,399,685	41.1%
5700--***	Standby Pay	67,608	28,600	39,008	42.3%
	Total Payroll Costs	7,127,532	2,943,241	4,184,291	41.3%
Other Expenses					
5002--***	Electricity	1,154,008	525,377	628,631	45.5%
5003--***	Natural Gas	234,532	101,638	132,894	43.3%
5004--***	Potable & Reclaimed Water	77,008	31,629	45,379	41.1%
5005--***	Co-generation Power Credit	(669,000)	(266,480)	(402,520)	39.8%
5006--***	Chlorine/Sodium Hypochlorite	479,900	204,122	275,778	42.5%
5007--***	Polymer Products	739,004	225,713	513,291	30.5%
5008--***	Ferric Chloride	452,000	223,788	228,212	49.5% (1)
5009--***	Odor Control Chemicals	114,996	37,151	77,845	32.3%
5010--***	Other Chemicals - Misc.	2,996	-	2,996	0.0%
5011--***	Laboratory Services	40,580	16,957	23,623	41.8%
5012--***	Grit Hauling	124,996	41,879	83,117	33.5%
5013--***	Landscaping	206,004	111,097	94,907	53.9% (2)
5014--***	Engineering - Misc.	-	-	-	0.0%
5015--***	Management Support Services	370,504	90,320	280,184	24.4%
5016--***	Audit - Environmental	1,252	-	1,252	0.0%
5017--***	Legal Fees	32,355	22,720	9,635	70.2%
5018--***	Public Notices/ Public Relations	5,500	-	5,500	0.0%
5019--***	Contract Services Misc.	256,012	113,227	142,785	44.2%
5021--***	Small Vehicle Expense	24,556	5,904	18,652	24.0%
5022--***	Miscellaneous Expense	18,020	2,331	15,689	12.9%
5023--***	Office Supplies - All	43,004	11,682	31,322	27.2%
5024--***	Petroleum Products	34,000	7,194	26,806	21.2%
5025--***	Uniforms	68,992	23,815	45,177	34.5%
5026--***	Small Vehicle Fuel	24,604	5,489	19,115	22.3%
5027--***	Insurance - Property/Liability	275,584	126,662	148,922	46.0%
5028--***	Small Tools & Supplies	77,500	19,943	57,557	25.7%
5030--***	Trash Disposal	6,992	1,960	5,033	28.0%
5031--***	Safety Program & Supplies	114,868	51,610	63,258	44.9%
5032--***	Equipment Rental	7,004	-	7,004	0.0%
5033--***	Recruitment	2,504	1,678	826	67.0%
5034--***	Travel Expense/Tech. Conferences	32,316	1,630	30,686	5.0%
5035--***	Training Expense	40,664	3,672	36,992	9.0%
5036--***	Laboratory Supplies	100,152	26,296	73,856	26.3%
5037--***	Office Equipment	65,000	9,897	55,103	15.2%
5038--***	Permits	480,520	346,937	133,583	72.2% (3)
5039--***	Membership Dues/Fees	23,772	9,260	14,512	39.0%
5044--***	Offshore Monitoring	44,004	44,245	(241)	100.5% (4)
5046--***	Effluent Chemistry	40,004	5,957	34,047	14.9%
5047--***	Access Road Expenses	44,004	38,692	5,312	87.9% (5)
5048--***	Storm Damage	20,008	-	20,008	0.0%
5049--***	Biosolids Disposal	1,429,996	595,680	834,316	41.7%
5050--***	Contract Services Generators - 29A	22,008	-	22,008	0.0%
5052--***	Janitorial Services	94,004	37,639	56,365	40.0%
5053--***	Contract Serv - Digester Cleaning - 29E	125,000	-	125,000	0.0%
5054--***	Diesel Truck Maint	41,004	10,853	30,151	26.5%
5055--***	Diesel Truck Fuel - 37B	11,504	3,437	8,067	29.9%
5056--***	Maintenance Equip. & Facilities (Solids)	361,000	127,909	233,091	35.4%
5057--***	Maintenance Equip. & Facilities (Liquids)	669,000	247,365	421,635	37.0%
5058--***	Maintenance Equip. & Facilities (Common)	86,008	67,125	18,883	78.0% (6)
5059--***	Maintenance Equip. & Facilities (Co-Gen)	960,000	247,327	712,673	25.8%
5060--***	Maintenance Equip. & Facilities (AWT)	75,000	42,881	32,120	57.2% (7)
5061--***	Mileage	3,548	1,135	2,413	32.0%
5067--***	Port Cleaning	70,000	-	70,000	0.0%
5068--***	MNWD Potable Water Supplies & Svcs.	42,000	5,472	36,528	13.0%
5076--***	SCADA Infrastructure	91,508	47,755	43,753	52.2% (8)
5077--***	IT Direct	10,000	10	9,990	0.1%
5105--***	Co-Generation Power Credit - Offset	669,000	266,480	402,520	39.8%
5303--***	Group Insurance Waiver	14,392	5,815	8,577	40.4%
5305--***	Medicare Tax Payments for Employees	1,336	679	657	50.8%
5309--***	Operating Leases	31,008	8,471	22,537	27.3%
5705--***	Monthly Car Allowance	31,192	14,977	16,215	48.0%
5799--***	Zephyr Wall Costs Share - O&M	(14,000)	(14,500)	500	0.0%
5802--***	Shipping/Freight	100	-	100	0.0%
6241--***	Education Reimbursement	-	161	(161)	0.0%
6500--***	IT Allocations in to PC's & Depts.	556,996	234,718	322,278	42.1%
	Total Other Expenses	10,592,323	4,175,377	6,416,946	39.4%
	Total O&M Expenses	17,719,855	7,118,618	10,601,237	40.2%

South Orange County Wastewater Authority
O & M & Environmental Safety Costs Summary
For the Period Ended November 30, 2020
(in dollars)

- (1) Odor levels continue to rise in the collection system resulting in higher levels of Ferric Chloride usage to control hydrogen sulfide in the treatment plants and the digester gas.
- (2) Tree removals from emergency projects and Santa Ana Winds have been elevated this year.
- (3) SOCWA permits are primarily paid in July and November each year.
- (4) Annual, one-time cost for kelp overflight required by the NPDES permit; Water Quality Fee increases.
- (5) Recently completed the annual access road asphalt repairs.
- (6) Emergency water line repairs completed at RTP.
- (7) Purchasing related to valves and actuators replacement at AWT.
- (8) Annual SCADA software license renewal completed.

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended November 30, 2020
(in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	%Expended
02 - Jay B. Latham Plant					
Salary and Fringe					
02-5000-**-**	Regular Salaries-O&M	1,518,048	661,928	856,120	43.6%
02-5001-**-**	Overtime Salaries-O&M	38,716	20,923	17,793	54.0%
02-5306-**-**	Scheduled Holiday Work	13,364	13,253	111	99.2%
02-5315-**-**	Comp Time - O&M	5,028	2,614	2,414	52.0%
02-5401-**-**	Fringe Benefits IN to PC's & Depts.	799,132	348,460	450,672	43.6%
02-5700-**-**	Standby Pay	25,352	11,278	14,075	44.5%
	Total Payroll Costs	<u>2,399,640</u>	<u>1,058,456</u>	<u>1,341,184</u>	<u>44.1%</u>
Other Expenses					
02-5002-**-**	Electricity	547,004	216,087	330,917	39.5%
02-5003-**-**	Natural Gas	121,036	56,166	64,870	46.4%
02-5004-**-**	Potable & Reclaimed Water	24,004	9,280	14,725	38.7%
02-5006-**-**	Chlorine/Sodium Hypochlorite	7,900	3,011	4,889	38.1%
02-5007-**-**	Polymer Products	278,000	82,178	195,822	29.6%
02-5008-**-**	Ferric Chloride	140,000	79,686	60,314	56.9%
02-5009-**-**	Odor Control Chemicals	21,000	7,051	13,949	33.6%
02-5010-**-**	Other Chemicals - Misc.	1,000	-	1,000	0.0%
02-5011-**-**	Laboratory Services	12,500	4,475	8,025	35.8%
02-5012-**-**	Grit Hauling	54,000	15,646	38,354	29.0%
02-5013-**-**	Landscaping	75,008	16,108	58,900	21.5%
02-5015-**-**	Management Support Services	26,004	15,371	10,633	59.1% (1)
02-5017-**-**	Legal Fees	3,095	122	2,973	3.9%
02-5019-**-**	Contract Services Misc.	75,008	26,676	48,332	35.6%
02-5021-**-**	Small Vehicle Expense	11,000	2,968	8,032	27.0%
02-5022-**-**	Miscellaneous Expense	8,000	1,591	6,409	19.9%
02-5023-**-**	Office Supplies - All	28,000	5,286	22,714	18.9%
02-5024-**-**	Petroleum Products	11,000	1,410	9,590	12.8%
02-5025-**-**	Uniforms	32,992	10,710	22,282	32.5%
02-5026-**-**	Small Vehicle Fuel	12,004	1,433	10,571	11.9%
02-5027-**-**	Insurance - Property/Liability	89,920	42,671	47,249	47.5%
02-5028-**-**	Small Tools & Supplies	37,004	13,773	23,231	37.2%
02-5030-**-**	Trash Disposal	2,000	778	1,222	38.9%
02-5031-**-**	Safety Program & Supplies	39,004	23,011	15,993	59.0% (2)
02-5032-**-**	Equipment Rental	3,000	-	3,000	0.0%
02-5033-**-**	Recruitment	1,000	1,067	(67)	106.7%
02-5035-**-**	Training Expense	12,808	1,512	11,296	11.8%
02-5036-**-**	Laboratory Supplies	16,472	3,314	13,158	20.1%
02-5037-**-**	Office Equipment	13,000	431	12,569	3.3%
02-5038-**-**	Permits	25,504	16,772	8,732	65.8% (3)
02-5039-**-**	Membership Dues/Fees	4,384	3,101	1,283	70.7% (4)
02-5049-**-**	Biosolids Disposal	524,996	229,067	295,929	43.6%
02-5050-**-**	Contract Services Generators - 29A	10,004	-	10,004	0.0%
02-5052-**-**	Janitorial Services	41,000	20,216	20,784	49.3%
02-5053-**-**	Contract Serv - Digester Cleaning - 29E	60,000	-	60,000	0.0%
02-5054-**-**	Diesel Truck Maint	21,000	3,942	17,058	18.8%
02-5055-**-**	Diesel Truck Fuel - 37B	3,004	907	2,097	30.2%
02-5056-**-**	Maintenance Equip. & Facilities (Solids)	155,000	37,860	117,140	24.4%
02-5057-**-**	Maintenance Equip. & Facilities (Liquids)	254,000	78,731	175,269	31.0%
02-5058-**-**	Maintenance Equip. & Facilities (Common)	28,000	25,493	2,507	91.0% (5)
02-5059-**-**	Maintenance Equip. & Facilities (Co-Gen)	369,000	80,097	288,903	21.7%
02-5061-**-**	Mileage	2,044	485	1,559	23.7%
02-5076-**-**	SCADA Infrastructure	30,504	15,918	14,586	52.2% (6)
02-5077-**-**	IT Direct	4,996	-	4,996	0.0%
02-5303-**-**	Group Insurance Waiver	3,592	1,523	2,069	42.4%
02-5309-**-**	Operating Leases	25,004	8,471	16,533	33.9%
02-5705-**-**	Monthly Car Allowance	18,600	9,646	8,954	51.9%
02-5799-**-**	Zephyr Wall Costs Share - O&M	(14,000)	(14,500)	500	0.0%
02-6500-**-**	IT Allocations in to PC's & Depts.	187,624	79,067	108,557	42.1%
	Total Other Expenses	<u>3,466,515</u>	<u>1,238,554</u>	<u>2,227,961</u>	<u>35.7%</u>
	Total Expenses	<u>5,866,155</u>	<u>2,297,009</u>	<u>3,569,146</u>	<u>39.2%</u>

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended November 30, 2020
(in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	%Expended
05 - San Juan Creek Ocean Outfall					
Salary and Fringe					
05-5000-**-***	Regular Salaries-O&M	94,880	52,478	42,402	55.3%
05-5001-**-***	Overtime Salaries-O&M	584	51	533	8.7%
05-5306-**-***	Scheduled Holiday Work	100	468	(368)	0.0%
05-5401-**-***	Fringe Benefits IN to PC's & Depts.	49,940	27,626	22,314	55.3%
	Total Payroll Costs	<u>145,504</u>	<u>80,623</u>	<u>64,881</u>	<u>55.4%</u>
Other Expenses					
05-5002-**-***	Electricity	1,004	-	1,004	0.0%
05-5003-**-***	Natural Gas	500	-	500	0.0%
05-5015-**-***	Management Support Services	80,000	-	80,000	0.0%
05-5017-**-***	Legal Fees	2,008	1,351	658	67.3%
05-5026-**-***	Small Vehicle Fuel	500	-	500	0.0%
05-5027-**-***	Insurance - Property/Liability	8,192	3,706	4,486	45.2%
05-5031-**-***	Safety Supplies	1,004	-	1,004	0.0%
05-5034-**-***	Travel Expense/Tech. Conferences	2,000	300	1,700	15.0%
05-5035-**-***	Training Expense	4,000	53	3,947	1.3%
05-5036-**-***	Laboratory Supplies	24,504	8,869	15,636	36.2%
05-5038-**-***	Permits	198,996	129,152	69,844	64.9% (3)
05-5039-**-***	Membership Dues/Fees	5,564	-	5,564	0.0%
05-5044-**-***	Offshore Monitoring	22,000	16,895	5,105	76.8% (7)
05-5046-**-***	Effluent Chemistry	20,004	4,411	15,593	22.1%
05-5058-**-***	Maintenance Equip. & Facilities (Common)	1,004	6,215	(5,211)	619.0% (8)
05-5067-**-***	Port Cleaning	35,000	-	35,000	0.0%
05-6500-**-***	IT Allocations in to PC's & Depts.	11,716	4,937	6,779	42.1%
	Total Other Expenses	<u>417,996</u>	<u>175,888</u>	<u>242,108</u>	<u>42.1%</u>
	Total Expenses	<u>563,500</u>	<u>256,511</u>	<u>306,989</u>	<u>45.5%</u>
08 - Pre Treatment					
Salary and Fringe					
08-5000-**-***	Regular Salaries-O&M	81,396	39,692	41,704	48.8%
08-5306-**-***	Scheduled Holiday Work	356	-	356	0.0%
08-5315-**-***	Comp Time - Environment	2,476	-	2,476	0.0%
08-5401-**-***	Fringe Benefits IN to PC's & Depts.	42,852	20,895	21,957	48.8%
	Total Payroll Costs	<u>127,080</u>	<u>60,588</u>	<u>66,492</u>	<u>47.7%</u>
Other Expenses					
08-5011-**-***	Laboratory Services	3,008	100	2,908	3.3%
08-5015-**-***	Management Support Services	4,000	-	4,000	0.0%
08-5016-**-***	Audit - Environmental	1,252	-	1,252	0.0%
08-5017-**-***	Legal Fees	2,532	3,019	(487)	119.2% (9)
08-5018-**-***	Public Notices/ Public Relations	5,500	-	5,500	0.0%
08-5021-**-***	Small Vehicle Expense - 31A	1,052	-	1,052	0.0%
08-5022-**-***	Miscellaneous Expense	2,020	-	2,020	0.0%
08-5026-**-***	Small Vehicle Fuel - 37A	1,096	30	1,066	2.7%
08-5027-**-***	Insurance - Property/Liability	2,844	1,287	1,557	45.2%
08-5028-**-***	Small Tools & Supplies	3,496	294	3,202	8.4%
08-5034-**-***	Travel Expense/Tech. Conferences	2,220	300	1,920	13.5%
08-5035-**-***	Training Expense	796	175	621	22.0%
08-5038-**-***	Permits and Fines	6,000	-	6,000	0.0%
08-5039-**-***	Membership Dues/Fees	800	411	389	51.4% (4)
08-6500-**-***	IT Allocations in to PC's & Depts.	10,052	4,236	5,816	42.1%
	Total Other Expenses	<u>46,668</u>	<u>9,851</u>	<u>36,817</u>	<u>21.1%</u>
	Total Expenses	<u>173,748</u>	<u>70,438</u>	<u>103,310</u>	<u>40.5%</u>
12 - Water Reclamation Permits					
Salary and Fringe					
12-5000-**-***	Regular Salaries-O&M	50,404	18,210	32,194	36.1%
12-5401-**-***	Fringe Benefits IN to PC's & Depts.	26,528	9,586	16,942	36.1%
	Total Payroll Costs	<u>76,932</u>	<u>27,796</u>	<u>49,136</u>	<u>36.1%</u>
Other Expenses					
12-5015-**-***	Management Support Services	157,000	65,130	91,870	41.5%
12-5017-**-***	Legal Fees	2,008	7,181	(5,173)	357.6% (9)
12-5027-**-***	Insurance - Property/Liability	3,116	1,410	1,706	45.2%
12-5034-**-***	Travel Expense/Tech. Conferences	1,352	-	1,352	0.0%
12-5038-**-***	Permits	21,512	-	21,512	0.0%
12-6500-**-***	IT Allocations in to PC's & Depts.	6,236	2,623	3,613	42.1%
	Total Other Expenses	<u>191,224</u>	<u>76,344</u>	<u>114,880</u>	<u>39.9%</u>
	Total Expenses	<u>268,156</u>	<u>104,140</u>	<u>164,016</u>	<u>38.8%</u>

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
 For the Period Ended November 30, 2020
 (in dollars)

	FY 2020-21 Budget	Actual	(Over)/Under Budget	%Expended	
15 - Coastal Treatment Plant					
Salary and Fringe					
15-5000-**-***	Regular Salaries-O&M	939,512	366,833	572,679	39.0%
15-5001-**-***	Overtime Salaries-O&M	21,760	6,267	15,493	28.8%
15-5306-**-***	Scheduled Holiday Work	5,096	6,266	(1,170)	123.0%
15-5315-**-***	Comp Time - O&M	2,100	1,002	1,098	47.7%
15-5401-**-***	Fringe Benefits IN to PC's & Depts.	494,584	193,113	301,472	39.0%
15-5700-**-***	Standby Pay	16,900	5,298	11,603	31.3%
	Total Payroll Costs	1,479,952	578,779	901,173	39.1%
Other Expenses					
15-5002-**-***	Electricity	256,000	85,068	170,932	33.2%
15-5003-**-***	Natural Gas	3,000	298	2,702	9.9%
15-5004-**-***	Potable & Reclaimed Water	25,004	8,983	16,021	35.9%
15-5006-**-***	Chlorine/Sodium Hypochlorite	92,000	34,449	57,551	37.4%
15-5007-**-***	Polymer Products	1,004	-	1,004	0.0%
15-5008-**-***	Ferric Chloride	46,996	22,333	24,663	47.5% (10)
15-5009-**-***	Odor Control Chemicals	50,000	16,239	33,761	32.5%
15-5011-**-***	Laboratory Services	8,000	6,891	1,109	86.1% (11)
15-5012-**-***	Grit Hauling	20,996	9,850	11,146	46.9%
15-5013-**-***	Landscaping	56,000	13,340	42,660	23.8%
15-5015-**-***	Management Support Services	2,500	99	2,401	4.0%
15-5017-**-***	Legal Fees	15,700	376	15,324	2.4%
15-5019-**-***	Contract Services Misc.	85,000	44,756	40,244	52.7% (12)
15-5021-**-***	Small Vehicle Expense - 31A	5,504	497	5,007	9.0%
15-5022-**-***	Miscellaneous Expense	1,000	231	769	23.1%
15-5023-**-***	Office Supplies - All	4,004	1,939	2,065	48.4%
15-5024-**-***	Petroleum Products	3,000	3,264	(264)	108.8% (13)
15-5025-**-***	Uniforms	8,996	2,981	6,015	33.1%
15-5026-**-***	Small Vehicle Fuel - 37A	2,000	483	1,517	24.2%
15-5027-**-***	Insurance - Property/Liability	46,396	20,989	25,407	45.2%
15-5028-**-***	Small Tools & Supplies	8,000	1,922	6,078	24.0%
15-5030-**-***	Trash Disposal	2,996	838	2,158	28.0%
15-5031-**-***	Safety Program & Supplies	33,352	10,640	22,712	31.9%
15-5032-**-***	Equipment Rental	1,000	-	1,000	0.0%
15-5033-**-***	Recruitment	500	233	267	46.5%
15-5034-**-***	Travel Expense/Tech. Conferences	5,748	148	5,600	2.6%
15-5035-**-***	Training Expense	8,356	396	7,960	4.7%
15-5036-**-***	Laboratory Supplies	11,004	2,674	8,330	24.3%
15-5037-**-***	Office Equipment	2,000	-	2,000	0.0%
15-5038-**-***	Permits	8,000	311	7,689	3.9%
15-5039-**-***	Membership Dues/Fees	2,600	2,629	(29)	101.1% (4)
15-5047-**-***	Access Road Expenses	44,004	38,692	5,312	87.9% (14)
15-5048-**-***	Storm Damage	20,008	-	20,008	0.0%
15-5050-**-***	Contract Services Generators - 29A	4,004	-	4,004	0.0%
15-5052-**-***	Janitorial Services	12,004	4,848	7,156	40.4%
15-5054-**-***	Diesel Truck Maint - 31B	1,004	-	1,004	0.0%
15-5055-**-***	Diesel Truck Fuel - 37B	496	-	496	0.0%
15-5057-**-***	Maintenance Equip. & Facilities (Liquids)	179,000	54,439	124,561	30.4%
15-5058-**-***	Maintenance Equip. & Facilities (Common)	22,000	845	21,155	3.8%
15-5060-**-***	Maintenance Equip. & Facilities (AWT) 41-E	37,000	2,535	34,465	6.9%
15-5061-**-***	Mileage	500	124	376	0.0%
15-5076-**-***	SCADA Infrastructure	30,500	15,918	14,582	52.2% (6)
15-5303-**-***	Group Insurance Waiver	3,600	1,523	2,077	42.3%
15-5305-**-***	Medicare Tax Payments for Employees	1,336	679	657	50.8%
15-5705-**-***	Monthly Car Allowance	4,204	1,777	2,427	42.3%
15-6500-**-***	IT Allocations in to PC's & Depts.	116,012	48,889	67,123	42.1%
	Total Other Expenses	1,292,328	463,123	829,205	35.8%
	Total Expenses	2,772,280	1,041,902	1,730,378	37.6%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended November 30, 2020
(in dollars)

	FY 2020-21 Budget	Actual	(Over)/Under Budget	%Expended	
17 - Joint Regional Wastewater Reclamation and Sludge Handling					
Salary and Fringe					
17-5000-**-***	Regular Salaries-O&M	1,721,896	658,203	1,063,693	38.2%
17-5001-**-***	Overtime Salaries-O&M	66,064	20,282	45,782	30.7%
17-5306-**-***	Scheduled Holiday Work	14,880	13,755	1,125	92.4%
17-5315-**-***	Comp Time - O&M	2,564	2,645	(81)	0.0%
17-5401-**-***	Fringe Benefits IN to PC's & Depts.	906,456	346,499	559,957	38.2%
17-5700-**-***	Standby Pay	25,356	12,025	13,331	47.4%
	Total Payroll Costs	2,737,216	1,053,410	1,683,806	38.5%
Other Expenses					
17-5002-**-***	Electricity	350,000	224,223	125,777	64.1% (15)
17-5003-**-***	Natural Gas	109,996	45,174	64,822	41.1%
17-5004-**-***	Potable & Reclaimed Water	28,000	13,367	14,633	47.7%
17-5005-**-***	Co-generation Power Credit	(669,000)	(266,480)	(402,520)	39.8%
17-5006-**-***	Chlorine/Sodium Hypochlorite	380,000	166,663	213,337	43.9%
17-5007-**-***	Polymer Products	460,000	143,535	316,465	31.2%
17-5008-**-***	Ferric Chloride	265,004	121,769	143,235	45.9%
17-5009-**-***	Odor Control Chemicals	43,996	13,862	30,134	31.5%
17-5010-**-***	Other Chemicals - Misc.	1,996	-	1,996	0.0%
17-5011-**-***	Laboratory Services	17,072	5,491	11,581	32.2%
17-5012-**-***	Grit Hauling - 21A	50,000	16,383	33,617	32.8%
17-5013-**-***	Landscaping	74,996	81,648	(6,652)	108.9% (16)
17-5015-**-***	Management Support Services	21,000	9,599	11,401	45.7%
17-5017-**-***	Legal Fees	5,004	10,672	(5,668)	213.3% (17)
17-5019-**-***	Contract Services Misc.	95,000	41,795	53,205	44.0% (12)
17-5021-**-***	Small Vehicle Expense	7,000	2,438	4,562	34.8%
17-5022-**-***	Miscellaneous Expense	7,000	509	6,491	7.3%
17-5023-**-***	Office Supplies - All	11,000	4,457	6,543	40.5%
17-5024-**-***	Petroleum Products	20,000	2,520	17,480	12.6%
17-5025-**-***	Uniforms	27,004	10,124	16,880	37.5%
17-5026-**-***	Small Vehicle Fuel	9,004	3,543	5,461	39.4%
17-5027-**-***	Insurance - Property/Liability	115,592	52,292	63,300	45.2%
17-5028-**-***	Small Tools & Supplies	29,000	3,954	25,046	13.6%
17-5030-**-***	Trash Disposal	1,996	344	1,652	17.2%
17-5031-**-***	Safety Program & Supplies	40,504	17,959	22,545	44.3%
17-5032-**-***	Equipment Rental	3,004	-	3,004	0.0%
17-5033-**-***	Recruitment	1,004	378	626	37.6%
17-5034-**-***	Travel Expense/Tech. Conferences	9,496	632	8,864	6.7%
17-5035-**-***	Training Expense	12,700	1,482	11,218	11.7%
17-5036-**-***	Laboratory Supplies	23,672	4,161	19,511	17.6%
17-5037-**-***	Office Equipment	50,000	9,466	40,534	18.9%
17-5038-**-***	Permits	21,508	2,039	19,469	9.5%
17-5039-**-***	Membership Dues/Fees	4,860	3,119	1,741	64.2% (4)
17-5049-**-***	Biosolids Disposal	905,000	366,613	538,387	40.5%
17-5050-**-***	Contract Services Generators - 29A	8,000	-	8,000	0.0%
17-5052-**-***	Janitorial Services	41,000	12,575	28,425	30.7%
17-5053-**-***	Contract Serv - Digester Cleaning - 29E	65,000	-	65,000	0.0%
17-5054-**-***	Diesel Truck Maint	19,000	6,911	12,089	36.4%
17-5055-**-***	Diesel Truck Fuel - 37B	8,004	2,530	5,474	31.6%
17-5056-**-***	Maintenance Equip. & Facilities (Solids)	206,000	90,049	115,951	43.7%
17-5057-**-***	Maintenance Equip. & Facilities (Liquids)	236,000	114,195	121,805	48.4%
17-5058-**-***	Maintenance Equip. & Facilities (Common)	34,000	34,572	(572)	101.7% (18)
17-5059-**-***	Maintenance Equip. & Facilities (Co-Gen)	591,000	167,140	423,860	28.3%
17-5060-**-***	Maintenance Equip. & Facilities (AWT)	38,000	40,446	(2,446)	106.4% (19)
17-5061-**-***	Mileage	1,004	526	478	52.4%
17-5068-**-***	MNWD Potable Water Supplies & Svcs.	42,000	5,472	36,528	13.0%
17-5076-**-***	SCADA Infrastructure	30,504	15,919	14,585	52.2% (6)
17-5077-**-***	IT Direct	5,004	-	5,004	0.0%
17-5105-**-***	Co-Generation Power Credit - Offset	669,000	266,480	402,520	39.8%
17-5303-**-***	Group Insurance Waiver	7,200	2,769	4,431	38.5%
17-5309-**-***	Operating Leases	6,004	-	6,004	0.0%
17-5705-**-***	Monthly Car Allowance	8,388	3,554	4,834	42.4%
17-6241-**-***	Education Reimbursement	-	161	(161)	0.0%
17-6500-**-***	IT Allocations in to PC's & Depts.	212,628	89,602	123,026	42.1%
	Total Other Expenses	4,760,144	1,966,631	2,793,513	41.3%
	Total Expenses	7,497,360	3,020,041	4,477,319	40.3%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended November 30, 2020
(in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	%Expended
21 - Effluent Transmission Main					
Salary and Fringe					
21-5000-**-***	Regular Salaries-O&M	1,384	326	1,058	23.6%
21-5401-**-***	Fringe Benefits IN to PC's & Depts.	732	172	560	23.5%
	Total Payroll Costs	2,116	498	1,618	23.5%
Other Expenses					
21-5014-**-***	Engineering - Misc.	-	-	-	0.0%
21-5019-**-***	Contract Services Misc. - 29	1,004	-	1,004	0.0%
21-5027-**-***	Insurance - Property/Liability	968	438	530	45.2%
21-5035-**-***	Training Expense	-	-	-	0.0%
	Total Other Expenses	1,972	438	1,534	22.2%
	Total Expenses	4,088	936	3,152	22.9%
24 - Aliso Creek Ocean Outfall					
Salary and Fringe					
24-5000-**-***	Regular Salaries-O&M	103,084	54,049	49,035	52.4%
24-5001-**-***	Overtime Salaries-O&M	1,576	298	1,278	18.9%
24-5306-**-***	Scheduled Holiday Work	168	292	(124)	0.0%
24-5401-**-***	Fringe Benefits IN to PC's & Depts.	54,264	28,453	25,811	52.4%
	Total Payroll Costs	159,092	83,093	75,999	52.2%
Other Expenses					
24-5015-**-***	Management Support Services	80,000	122	79,878	0.2%
24-5017-**-***	Legal Fees	2,008	-	2,008	0.0%
24-5027-**-***	Insurance - Property/Liability	8,556	3,871	4,685	45.2%
24-5031-**-***	Safety Supplies	1,004	-	1,004	0.0%
24-5034-**-***	Travel Expense/Tech. Conferences	2,004	300	1,704	15.0%
24-5035-**-***	Training Expense	2,004	53	1,951	2.6%
24-5036-**-***	Laboratory Supplies	24,500	7,279	17,221	29.7%
24-5038-**-***	Permits	199,000	198,664	336	99.8% (3)
24-5039-**-***	Membership Dues/Fees	5,564	-	5,564	0.0%
24-5044-**-***	Offshore Monitoring	22,004	27,350	(5,346)	124.3% (7)
24-5046-**-***	Effluent Chemistry	20,000	1,546	18,454	7.7%
24-5058-**-***	Maintenance Equip. & Facilities (Common) 41-C	1,004	-	1,004	0.0%
24-5067-**-***	Port Cleaning	35,000	-	35,000	0.0%
24-5802-**-***	Shipping/Freight	100	-	100	0.0%
24-6500-**-***	IT Allocations in to PC's & Depts.	12,728	5,364	7,364	42.1%
	Total Other Expenses	415,476	244,548	170,928	58.9%
	Total Expenses	574,568	327,641	246,927	57.0%
	Total O&M Expenses	17,719,855	7,118,618	10,601,237	40.2%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended November 30, 2020

- (1) ADS was retained to provide alternative flow measurement for JBL's Plant #2 during an extended construction shutdown.
- (2) Replace old equipment and PPE happens in July of each year.
- (3) SOCWA permits are primarily paid in July and November each year.
- (4) Membership Dues/Fees are primarily paid in July and October of each year.
- (5) Several larger emergency repairs were needed on the access gates, fire sprinklers, and HVAC units at JBL.
- (6) Annual SCADA software license renewal completed.
- (7) Annual, one-time cost for kelp overflight required by the NPDES permit; Water Quality Fee increases.
- (8) The surge tower site was re-fenced and cleared to discourage unauthorized entry.
- (9) Additional cost related to required pretreatment ordinance update as required by the SWRCB and PC agreement review.
- (10) Odor levels continue to rise in the collection system resulting in higher levels of Ferric Chloride usage to control hydrogen sulfide in the treatment plants and the digester gas.
- (11) Annual priority pollutants testing as required by NPDES permit.
- (12) Additional services related to mitigating COVID-19 have increased spending, including providing visitor restrooms, increased security, etc.
- (13) Additional fuel purchases have been required at CTP due to several extended power outages and construction-related shutdowns.
- (14) Recently completed the annual access road asphalt repairs.
- (15) Engine repairs and equipment overhauls have required engine shutdowns and electricity purchases.
- (16) Tree removals from emergency projects and Santa Ana Winds have been elevated this year.
- (17) Engine O&M and Construction agreements reviews.
- (18) Emergency water line repairs completed at RTP.
- (19) Purchasing related to valves and actuators replacement at AWT.

**South Orange County Wastewater Authority
Budget vs. Actual Comparison - Engineering**

For the Period Ended November 30, 2020

(in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
01-5000-03-00-00	Regular Salaries-O&M	196,836	67,252	129,584	34.2%
01-5401-03-00-00	Fringe Benefits IN to PC's & Depts.	103,621	33,225	70,396	32.1%
	Total Payroll Costs	300,457	100,477	199,980	33.4%
Other Expenses					
01-5022-03-00-00	Miscellaneous Expense	3,184	394	2,790	12.4%
01-5023-03-00-00	Office Supplies - All	208	-	208	0.0%
01-5031-03-00-00	Safety Supplies	306	-	306	0.0%
01-5034-03-00-00	Travel Expense/Tech. Conferences	6,439	-	6,439	0.0%
01-5035-03-00-00	Training Expense	2,244	-	2,244	0.0%
01-5037-03-00-00	Office Equipment	408	-	408	0.0%
01-5039-03-00-00	Membership Dues/Fees	1,377	-	1,377	0.0%
01-5061-03-00-00	Mileage	510	28	482	5.5%
01-5309-03-00-00	Operating Leases	6,829	3,809	3,020	55.8%
01-5705-03-00-00	Monthly Car Allowance	4,200	1,777	2,423	42.3%
01-5802-03-00-00	Shipping/Freight	312	-	312	0.0%
01-6500-03-00-00	IT Allocations in to PC's & Depts.	50,794	21,405	29,389	42.1%
	Total Other Expenses	76,810	27,413	49,398	35.7%
	Total Engineering Expenses	377,267	127,891	249,377	33.9%

South Orange County Wastewater Authority
Budget vs. Actual Comparison- Administration
 For the Period Ended November 30, 2020
 (in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
01-6000-04-00-00	Regular Salaries-Admin or IT	944,542	376,739	567,803	39.9%
01-6001-04-00-00	Overtime Salaries-Admin or IT	20,000	18,084	1,916	90.4% (1)
01-6315-04-00-00	Comp Time - Admin	15,000	4,063	10,937	27.1%
01-6401-04-00-00	Fringe Benefits IN to ADMIN or IT	497,236	198,327	298,909	39.9%
	Total Payroll Costs	1,476,778	597,214	879,564	40.4%
Other Expenses					
01-5018-04-00-00	Public Notices/ Public Relations	-	2,180	(2,180)	0.0% (2)
01-6101-04-00-00	HR Recruitment & Employee Relations	26,500	178	26,322	0.7%
01-6102-04-00-00	Subscriptions	2,040	1,366	674	66.9%
01-6200-04-00-00	Management Support Services	102,000	24,537	77,463	24.1%
01-6201-04-00-00	Audit	44,900	25,000	19,900	55.7%
01-6202-04-00-00	Legal	200,000	140,668	59,332	70.3%
01-6204-04-00-00	Postage	4,000	638	3,362	15.9%
01-6223-04-00-00	Office Supplies - Admin	6,120	3,038	3,082	49.6%
01-6224-04-00-00	Office Equipment Admin or IT	1,000	767	233	76.7%
01-6234-04-00-00	Memberships & Trainings	88,950	5,921	83,029	6.7%
01-6239-04-00-00	Travel & Conference	10,965	599	10,366	5.5%
01-6241-04-00-00	Education Reimbursement	3,000	-	3,000	0.0%
01-6310-04-00-00	Miscellaneous	23,460	7,237	16,223	30.8%
01-6311-04-00-00	Mileage	1,211	-	1,211	0.0%
01-6317-04-00-00	Contract Services Misc	5,610	2,125	3,485	37.9%
01-6500-04-00-00	IT Allocations in to PC's & Depts.	116,635	49,151	67,484	42.1%
01-6601-04-00-00	Shipping/Freight	3,740	877	2,863	23.4%
01-6705-04-00-00	Monthly Car Allowance	12,000	5,077	6,923	42.3%
	Total Other Expenses	652,131	269,358	382,773	41.3%
Total Admin Expenses		2,128,909	866,572	1,262,337	40.7%

(1) Overtime salary and comp should be considered together, 63.2%

(2) Publication fee for ordinance

South Orange County Wastewater Authority
Budget vs. Actual Comparison-IT
 For the Period Ended November 30, 2020
 (in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	% Expended
Salary & Fringe					
01-6000-05-00-00	Regular Salaries-Admin or IT	93,909	43,050	50,859	45.8%
01-6001-05-00-00	Overtime Salaries-Admin or IT	-	-	-	0.0%
01-6315-05-00-00	Comp Time - IT	5,000	-	5,000	0.0%
01-6401-05-00-00	Fringe Benefits IN to ADMIN or IT	49,437	22,663	26,774	45.8%
	Total Salary & Fringe	148,346	65,712	82,634	44.3%
Other Expenses					
01-5028-05-00-00	Small Tools & Supplies	1,000	-	1,000	0.0%
01-5035-05-00-00	Training Expense	2,000	-	2,000	0.0%
01-5037-05-00-00	Office Equipment	600	-	600	0.0%
01-6234-05-00-00	Memberships & Trainings	1,375	-	1,375	0.0%
01-6239-05-00-00	Travel & Conference	1,750	-	1,750	0.0%
01-6300-05-00-00	Software Maintenance Agreements	38,779	64,134	(25,355)	165.4% (1)
01-6301-05-00-00	Hardware Maintenance Agreements	7,126	602	6,524	8.5%
01-6302-05-00-00	Cloud Subscriptions (Internet)	148,369	10,295	138,074	6.9%
01-6303-05-00-00	Telecommunications	150,534	58,354	92,180	38.8%
01-6305-05-00-00	IT Professional Services	108,060	70,634	37,426	65.4% (2)
01-6306-05-00-00	Small Hardware Purchases (< \$5k)	29,200	4,887	24,313	16.7%
01-6307-05-00-00	Small Software Purchases & Licenses (<\$5k)	26,908	6,570	20,338	24.4%
01-6308-05-00-00	IT Memberships	160	-	160	0.0%
01-6309-05-00-00	Operating Leases	55,200	22,248	32,952	40.3% (3)
01-6310-05-00-00	Miscellaneous	5,000	-	5,000	0.0%
01-6312-05-00-00	Computer & Photocopy Supplies	-	1,836	(1,836)	0.0%
	Total Other Expenses	576,061	239,562	336,499	41.6%
	Total Expenses before Allocation	724,407	305,274	419,133	42.1%
IT Allocations (Out) to PC's & Depts					
01-6400-05-00-00	IT Allocations (OUT) to PC's & Depts.	(724,407)	(305,274)	(419,133)	42.1%
	Total IT Allocations (Out) to PC's & Depts	(724,407)	(305,274)	(419,133)	42.1%

- (1) Annual subscription costs that renew at the beginning of the fiscal year.
- (2) Costs for server rack migration and wiring clean-up at CTP and RTP.
- (3) Annual service contract for facility printer/copiers.

Agenda Item

4H

Board of Directors Meeting

Meeting Date: February 4, 2021

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Mary Carey, Finance Controller
SUBJECT: Financial Reports for the Month of December 2020

Summary/Discussion

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

The reports included are as follows:

- a. Summary of Disbursements for December 2020 (Exhibit A)
- b. Schedule of Funds Available for Reinvestment (Exhibit B)
 - Local Agency Investment Fund (LAIF)
- c. Schedule of Cash and Investments (Exhibit C)
- d. Capital Schedule (Exhibit D)
 - Capital Projects – Graph (Exhibit D-1)
- e. Budget vs. Actual Expenses:
 - Operations and Environmental Summary (Exhibit E-1)
 - Operations and Environmental by PC (E-1.2)
 - Residual Engineering, after transfer to Capital (Exhibit E-2)
 - Administration (Exhibit E-3)
 - Information Technology (IT) (Exhibit E-4)
- f. Mid-year Fringe Pool and Fringe Rate Forecast

Fiscal impact

December 2020 cash disbursements were: \$3,915,268.

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

Recommended Action: The Finance Committee recommends to the Board of Directors to ratify the December 2020 disbursements for the period from December 1, 2020, through December 31, 2020, totaling \$3,915,268, and to receive and file the December 2020 Financial Reports as submitted.

Exhibit A

**South Orange County Wastewater Authority
Summary of Disbursements for December 2020
Staff Recommendation of Fiscal Matters**

	<u>Actual¹</u>
General Fund	\$ (751,674)
PC 2 - Jay B. Latham Plant	(1,061,519)
PC 5 - San Juan Creek Ocean Outfall	(337,141)
PC 8 - Pretreatment Program	(4,135)
PC 12 SO - Water Reclamation Permits	(33,920)
PC 15 - Coastal Treatment Plant/AWT	(552,814)
PC 17 - Joint Regional Wastewater Reclamation	(959,869)
PC 21 - Effluent Transmission Main	-
PC 24 - Aliso Creek Ocean Outfall	(214,195)
Total	<u>\$ (3,915,268)</u>

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
SCHEDULE OF FUNDS AVAILABLE FOR REINVESTMENT
as of December 31, 2020**

CASH IN BANK: (BEGINNING BAL.)	\$	1,574,222
L.A.I.F. FUNDS: (BEGINNING BAL.)		17,506,941
DEPOSITS, TRANSFERS & ADJUSTMENTS:		20,858
FUND REQUIREMENTS:		
BILLS FOR CONSIDERATION		(3,915,268)
		(3,915,268)
TOTAL CASH IN BANK	\$	15,186,753

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

In accordance with requirements of the Government Code and the "SOCWA Investment Policy", I hereby certify that:

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

Betty Burnett
General Manager

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



PMIA/LAIF Performance Report as of 01/08/21



PMIA Average Monthly Effective Yields⁽¹⁾

Dec	0.540
Nov	0.576
Oct	0.620

Quarterly Performance Quarter Ended 09/30/20

LAIF Apportionment Rate ⁽²⁾ :	0.84
LAIF Earnings Ratio ⁽²⁾ :	0.00002309407394024
LAIF Fair Value Factor ⁽¹⁾ :	1.004114534
PMIA Daily ⁽¹⁾ :	0.65%
PMIA Quarter to Date ⁽¹⁾ :	0.80%
PMIA Average Life ⁽¹⁾ :	169

Pooled Money Investment Account Monthly Portfolio Composition ⁽¹⁾ 11/30/20 \$103.0 billion

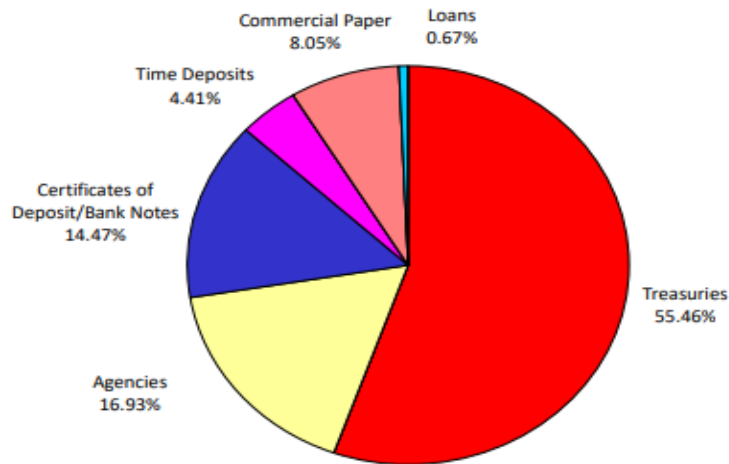


Chart does not include 0.01% of mortgages. Percentages may not total 100% due to rounding.

Daily rates are now available here. [View PMIA Daily Rates](#)

Notes: The apportionment rate includes interest earned on the CalPERS Supplemental Pension Payment pursuant to Government Code 20825 (c)(1) and interest earned on the Wildfire Fund loan pursuant to Public Utility Code 3288 (a).

Source:

⁽¹⁾ State of California, Office of the Treasurer

⁽²⁾ State of California, Office of the Controller

Exhibit C

**South Orange County Wastewater Authority
Schedule of Cash and Investments
as of December 31, 2020**

MVA	\$ 4,961	(A)
A/P Checking	1,166,059	(B)
Payroll Checking	34,478	(C)
State LAIF	13,981,254	(D)
Total Cash in Bank	\$ 15,186,753	
Petty Cash	1,600	(E)
Total Operating Cash	\$ 15,188,353	
OPEB Trust	5,944,304	(F)
Total Cash and Investments	\$ 21,132,657	

Notes:

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

**South Orange County Wastewater Authority
Capital Projects Summaries
For the Period Ended December 31, 2020
(in dollars)**

FY 2020-21 Budget vs. Actual Spending								
Description	Capital Budget	¹ Fiscal Year Spending	(Over)/ Under Budget	% Expended	Member Agency Billed	Member Agency Collections	Past Due Receivables	% Expended vs. Billed
PC 2-JB Latham	\$ 11,001,878	\$ 3,943,356	\$ 7,058,523	35.8%	\$ 1,123,978	\$ 1,123,978	\$ -	350.8%
PC 5-San Juan Creek Outfall	1,263,698	300,765	962,933	23.8%	308,717	308,717		97.4%
PC 15-Coastal	9,901,131	2,986,488	6,914,643	30.2%	1,500,000	1,500,000		199.1%
PC 17-Regional	2,673,021	1,690,559	982,462	63.2%	-	-		
PC 21 Effluent Transmission	2,322,672	-	2,322,672	0.0%	100,000	100,000		0.0%
² PC 24 Aliso Creek Outfall	-	6,252	(6,252)			-		
Total Large Capital	\$ 27,162,400	\$ 8,927,420	\$ 18,234,980	32.9%	\$ 3,032,695	\$ 3,032,695	\$ -	294.4%
Non-Capital Engineering	1,161,634	23,503	1,138,131	2.0%	94,210	94,210		24.9%
Non-Capital Misc Engineering	75,000	-	75,000	0.0%	52,960	52,960		0.0%
Small Internal Capital	2,099,000	423,086	1,675,914	20.2%	1,049,500	1,049,500		40.3%
Total Capital	\$ 30,498,034	\$ 9,374,009	\$ 21,124,025	30.7%	\$ 4,229,365	\$ 4,229,365	\$ -	221.6%

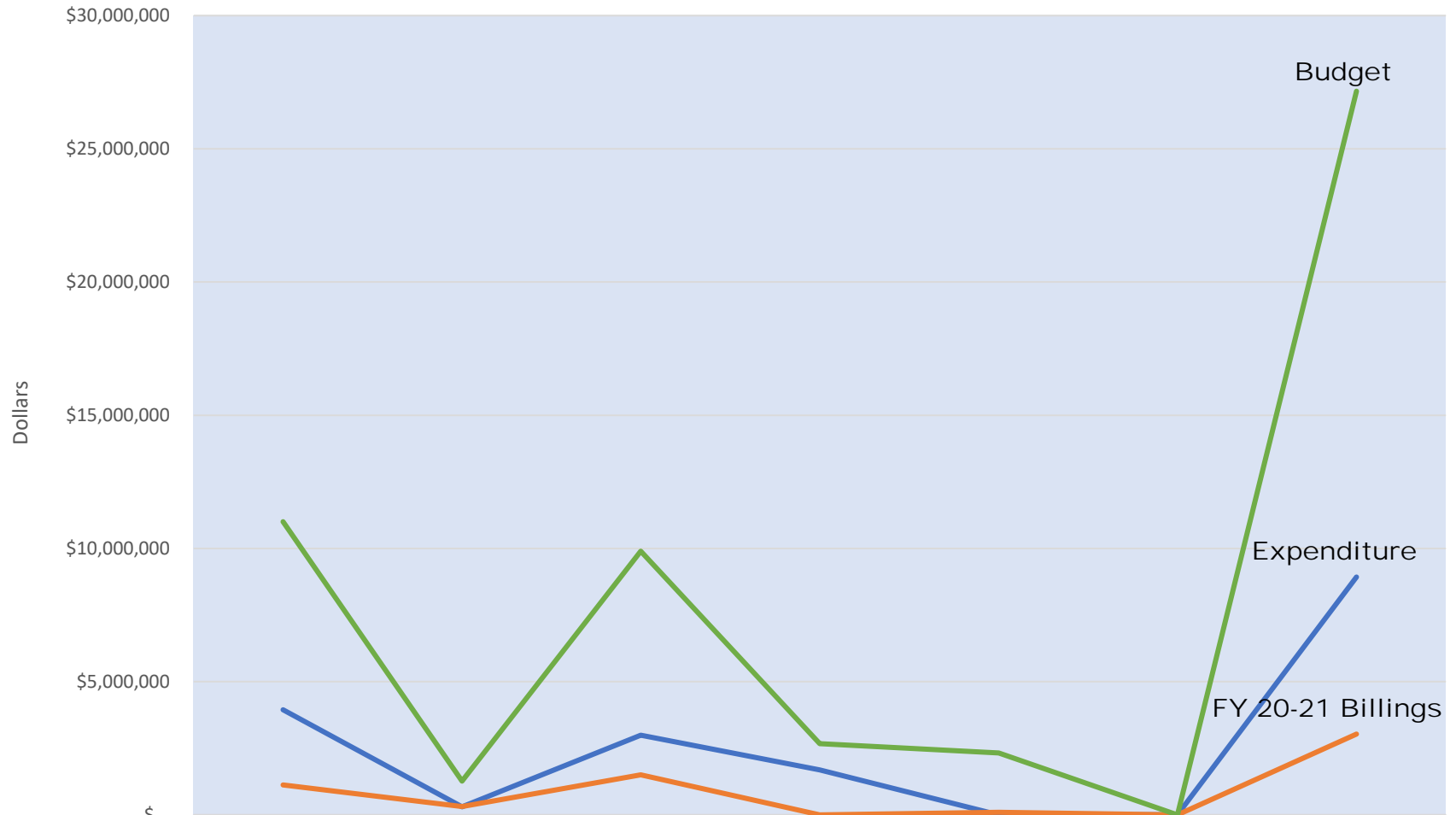
¹ Fiscal Year Spending does not include spending on carryover projects from FY 2019-20 Budget; Small Capital and Non-Capital work delayed because of COVID 19:

	Carryover	YTD Spending	Balance	% Expended
Non-Capital Engineering	\$369,508	\$63,552	\$305,956	17.2%
Non-Capital Misc Engineering	252,298	72,363	179,935	28.7%
Small Internal Capital	565,000	317,538	247,462	56.2%
	\$1,186,806	\$453,453	\$733,353	38.2%

² PC 24 is paid out of Cash on Hand collected in an earlier year

Large Capital Projects Fiscal Year '20-21 Budget vs. Year-to-Date Expenditures & Billings as of 12/31/2020

Exhibit D-1



	PC 2-JB Latham	PC 5-San Juan Creek Outfall	PC 15-Coastal	PC 17-Regional	PC 21 Effluent Transmission	PC 24 Aliso Creek Outfall	Total Large Capital
Spent - YTD 12/31/20	\$3,943,356	\$300,765	\$2,986,488	\$1,690,559	-	\$6,252	\$8,927,420
FY 20-21 Billings	\$1,123,978	\$308,717	\$1,500,000	\$0	\$100,000	\$0	\$3,032,695
Capital Budget 20-21	\$11,001,878	\$1,263,698	\$9,901,131	\$2,673,021	\$2,322,672	-	\$27,162,400

South Orange County Wastewater Authority
O & M & Environmental Safety Costs Summary
 For the Period Ended December 31, 2020
 (in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
5000--***	Regular Salaries-O&M	4,510,604	2,215,911	2,294,693	49.1%
5001--***	Overtime Salaries-O&M	128,700	62,150	66,550	48.3%
5306--***	Scheduled Holiday Work	33,964	47,675	(13,711)	140.4%
5315--***	Comp Time - O&M	12,168	6,311	5,857	51.9%
5401--***	Fringe Benefits IN to PC's & Depts.	2,374,488	1,166,525	1,207,963	49.1%
5700--***	Standby Pay	67,608	34,320	33,288	50.8%
	Total Payroll Costs	7,127,532	3,532,892	3,594,640	49.6%
Other Expenses					
5002--***	Electricity	1,154,008	614,707	539,301	53.3%
5003--***	Natural Gas	234,532	114,311	120,221	48.7%
5004--***	Potable & Reclaimed Water	77,008	36,851	40,157	47.9%
5005--***	Co-generation Power Credit	(669,000)	(325,499)	(343,501)	48.7%
5006--***	Chlorine/Sodium Hypochlorite	479,900	243,891	236,009	50.8%
5007--***	Polymer Products	739,004	307,718	431,286	41.6%
5008--***	Ferric Chloride	452,000	276,019	175,981	61.1% (1)
5009--***	Odor Control Chemicals	114,996	41,439	73,557	36.0%
5010--***	Other Chemicals - Misc.	2,996	-	2,996	0.0%
5011--***	Laboratory Services	40,580	18,061	22,519	44.5%
5012--***	Grit Hauling	124,996	50,255	74,741	40.2%
5013--***	Landscaping	206,004	121,099	84,905	58.8% (2)
5014--***	Engineering - Misc.	-	-	-	0.0%
5015--***	Management Support Services	370,504	110,038	260,466	29.7%
5016--***	Audit - Environmental	1,252	-	1,252	0.0%
5017--***	Legal Fees	32,355	22,720	9,635	70.2%
5018--***	Public Notices/ Public Relations	5,500	-	5,500	0.0%
5019--***	Contract Services Misc.	256,012	117,435	138,577	45.9%
5021--***	Small Vehicle Expense	24,556	6,867	17,689	28.0%
5022--***	Miscellaneous Expense	18,020	2,349	15,671	13.0%
5023--***	Office Supplies - All	43,004	14,840	28,164	34.5%
5024--***	Petroleum Products	34,000	7,194	26,806	21.2%
5025--***	Uniforms	68,992	29,533	39,459	42.8%
5026--***	Small Vehicle Fuel	24,604	6,458	18,146	26.2%
5027--***	Insurance - Property/Liability	275,584	151,403	124,181	54.9%
5028--***	Small Tools & Supplies	77,500	29,802	47,698	38.5%
5030--***	Trash Disposal	6,992	2,962	4,030	42.4%
5031--***	Safety Program & Supplies	114,868	68,232	46,636	59.4%
5032--***	Equipment Rental	7,004	-	7,004	0.0%
5033--***	Recruitment	2,504	1,429	1,075	57.1%
5034--***	Travel Expense/Tech. Conferences	32,316	1,630	30,686	5.0%
5035--***	Training Expense	40,664	4,396	36,268	10.8%
5036--***	Laboratory Supplies	100,152	51,238	48,914	51.2%
5037--***	Office Equipment	65,000	16,977	48,023	26.1%
5038--***	Permits	480,520	465,725	14,795	96.9% (3)
5039--***	Membership Dues/Fees	23,772	11,091	12,681	46.7%
5044--***	Offshore Monitoring	44,004	50,760	(6,756)	115.4% (4)
5046--***	Effluent Chemistry	40,004	6,057	33,947	15.1%
5047--***	Access Road Expenses	44,004	38,785	5,219	88.1% (5)
5048--***	Storm Damage	20,008	-	20,008	0.0%
5049--***	Biosolids Disposal	1,429,996	700,103	729,893	49.0%
5050--***	Contract Services Generators - 29A	22,008	-	22,008	0.0%
5052--***	Janitorial Services	94,004	40,839	53,165	43.4%
5053--***	Contract Serv - Digester Cleaning - 29E	125,000	-	125,000	0.0%
5054--***	Diesel Truck Maint	41,004	10,865	30,139	26.5%
5055--***	Diesel Truck Fuel - 37B	11,504	3,437	8,067	29.9%
5056--***	Maintenance Equip. & Facilities (Solids)	361,000	150,843	210,157	41.8%
5057--***	Maintenance Equip. & Facilities (Liquids)	669,000	309,567	359,433	46.3%
5058--***	Maintenance Equip. & Facilities (Common)	86,008	107,288	(21,280)	124.7% (6)
5059--***	Maintenance Equip. & Facilities (Co-Gen)	960,000	282,646	677,354	29.4%
5060--***	Maintenance Equip. & Facilities (AWT)	75,000	51,376	23,624	68.5% (7)
5061--***	Mileage	3,548	1,153	2,395	32.5%
5067--***	Port Cleaning	70,000	-	70,000	0.0%
5068--***	MNWD Potable Water Supplies & Svcs.	42,000	7,925	34,075	18.9%
5076--***	SCADA Infrastructure	91,508	47,755	43,753	52.2%
5077--***	IT Direct	10,000	10	9,990	0.1%
5105--***	Co-Generation Power Credit - Offset	669,000	325,499	343,501	48.7%
5303--***	Group Insurance Waiver	14,392	7,034	7,358	48.9%
5305--***	Medicare Tax Payments for Employees	1,336	1,075	261	80.5%
5309--***	Operating Leases	31,008	10,548	20,460	34.0%
5705--***	Monthly Car Allowance	31,192	17,972	13,220	57.6%
5799--***	Zephyr Wall Costs Share - O&M	(14,000)	(14,500)	500	0.0%
5802--***	Shipping/Freight	100	-	100	0.0%
6241--***	Education Reimbursement	-	606	(606)	0.0%
6500--***	IT Allocations in to PC's & Depts.	556,996	264,341	292,655	47.5%
	Total Other Expenses	10,592,323	5,043,155	5,549,168	47.6%
	Total O&M Expenses	17,719,855	8,576,047	9,143,808	48.4%

South Orange County Wastewater Authority
O & M & Environmental Safety Costs Summary
For the Period Ended December 31, 2020
(in dollars)

- (1) Odor levels continue to rise in the collection system resulting in higher levels of Ferric Chloride usage to control hydrogen sulfide in the treatment plants and the digester gas.
- (2) Tree removals from emergency projects and Santa Ana Winds have been elevated this year.
- (3) SOCWA permits are primarily paid in July and November each year.
- (4) Annual, one-time cost for kelp overflight required by the NPDES permit; Water Quality Fee increases.
- (5) Recently completed the annual access road asphalt repairs.
- (6) Emergency water line repairs completed at RTP.
- (7) Purchasing related to valves and actuators replacement at AWT.

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended December 31, 2020
(in dollars)

	FY 2020-21 Budget	Actual	(Over)/Under Budget	% Expended	
02 - Jay B. Latham Plant					
Salary and Fringe					
02-5000-**-***	Regular Salaries-O&M	1,518,048	795,852	722,196	52.4%
02-5001-**-***	Overtime Salaries-O&M	38,716	26,218	12,498	67.7%
02-5306-**-***	Scheduled Holiday Work	13,364	18,854	(5,490)	141.1%
02-5315-**-***	Comp Time - O&M	5,028	2,918	2,110	58.0%
02-5401-**-***	Fringe Benefits IN to PC's & Depts.	799,132	418,961	380,171	52.4%
02-5700-**-***	Standby Pay	25,352	13,195	12,157	52.0%
	Total Payroll Costs	2,399,640	1,275,997	1,123,643	53.2%
Other Expenses					
02-5002-**-***	Electricity	547,004	253,251	293,753	46.3%
02-5003-**-***	Natural Gas	121,036	60,744	60,292	50.2%
02-5004-**-***	Potable & Reclaimed Water	24,004	11,579	12,425	48.2%
02-5006-**-***	Chlorine/Sodium Hypochlorite	7,900	3,011	4,889	38.1%
02-5007-**-***	Polymer Products	278,000	108,875	169,125	39.2%
02-5008-**-***	Ferric Chloride	140,000	108,383	31,617	77.4% (1)
02-5009-**-***	Odor Control Chemicals	21,000	7,051	13,949	33.6%
02-5010-**-***	Other Chemicals - Misc.	1,000	-	1,000	0.0%
02-5011-**-***	Laboratory Services	12,500	4,775	7,725	38.2%
02-5012-**-***	Grit Hauling	54,000	19,260	34,740	35.7%
02-5013-**-***	Landscaping	75,008	16,988	58,020	22.6%
02-5015-**-***	Management Support Services	26,004	16,921	9,083	65.1% (2)
02-5017-**-***	Legal Fees	3,095	122	2,973	3.9%
02-5019-**-***	Contract Services Misc.	75,008	28,089	46,919	37.4%
02-5021-**-***	Small Vehicle Expense	11,000	3,276	7,724	29.8%
02-5022-**-***	Miscellaneous Expense	8,000	1,591	6,409	19.9%
02-5023-**-***	Office Supplies - All	28,000	6,333	21,667	22.6%
02-5024-**-***	Petroleum Products	11,000	1,410	9,590	12.8%
02-5025-**-***	Uniforms	32,992	12,635	20,357	38.3%
02-5026-**-***	Small Vehicle Fuel	12,004	1,766	10,238	14.7%
02-5027-**-***	Insurance - Property/Liability	89,920	51,018	38,902	56.7%
02-5028-**-***	Small Tools & Supplies	37,004	16,909	20,095	45.7%
02-5030-**-***	Trash Disposal	2,000	938	1,062	46.9%
02-5031-**-***	Safety Program & Supplies	39,004	31,371	7,633	80.4% (3)
02-5032-**-***	Equipment Rental	3,000	-	3,000	0.0%
02-5033-**-***	Recruitment	1,000	984	16	98.4%
02-5035-**-***	Training Expense	12,808	1,936	10,872	15.1%
02-5036-**-***	Laboratory Supplies	16,472	7,261	9,211	44.1%
02-5037-**-***	Office Equipment	13,000	431	12,569	3.3%
02-5038-**-***	Permits	25,504	33,702	(8,198)	132.1% (4)
02-5039-**-***	Membership Dues/Fees	4,384	3,750	634	85.5% (5)
02-5049-**-***	Biosolids Disposal	524,996	259,238	265,758	49.4%
02-5050-**-***	Contract Services Generators - 29A	10,004	-	10,004	0.0%
02-5052-**-***	Janitorial Services	41,000	21,990	19,010	53.6%
02-5053-**-***	Contract Serv - Digester Cleaning - 29E	60,000	-	60,000	0.0%
02-5054-**-***	Diesel Truck Maint	21,000	3,948	17,052	18.8%
02-5055-**-***	Diesel Truck Fuel - 37B	3,004	907	2,097	30.2%
02-5056-**-***	Maintenance Equip. & Facilities (Solids)	155,000	49,766	105,234	32.1%
02-5057-**-***	Maintenance Equip. & Facilities (Liquids)	254,000	94,174	159,826	37.1%
02-5058-**-***	Maintenance Equip. & Facilities (Common)	28,000	15,376	12,624	54.9%
02-5059-**-***	Maintenance Equip. & Facilities (Co-Gen)	369,000	100,417	268,583	27.2%
02-5061-**-***	Mileage	2,044	503	1,541	24.6%
02-5076-**-***	SCADA Infrastructure	30,504	15,918	14,586	52.2%
02-5077-**-***	IT Direct	4,996	-	4,996	0.0%
02-5303-**-***	Group Insurance Waiver	3,592	1,828	1,764	50.9%
02-5309-**-***	Operating Leases	25,004	10,548	14,456	42.2%
02-5705-**-***	Monthly Car Allowance	18,600	11,575	7,025	62.2%
02-5799-**-***	Zephyr Wall Costs Share - O&M	(14,000)	(14,500)	500	0.0%
02-6500-**-***	IT Allocations in to PC's & Depts.	187,624	89,045	98,579	47.5%
	Total Other Expenses	3,466,515	1,475,043	1,991,472	42.6%
	Total Expenses	5,866,155	2,751,040	3,115,115	46.9%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended December 31, 2020
(in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	% Expended
05 - San Juan Creek Ocean Outfall					
Salary and Fringe					
05-5000-**-***	Regular Salaries-O&M	94,880	65,100	29,780	68.6%
05-5001-**-***	Overtime Salaries-O&M	584	1,743	(1,159)	298.5%
05-5306-**-***	Scheduled Holiday Work	100	468	(368)	0.0%
05-5401-**-***	Fringe Benefits IN to PC's & Depts.	49,940	34,271	15,669	68.6%
	Total Payroll Costs	145,504	101,583	43,921	69.8%
Other Expenses					
05-5002-**-***	Electricity	1,004	-	1,004	0.0%
05-5003-**-***	Natural Gas	500	-	500	0.0%
05-5015-**-***	Management Support Services	80,000	1,450	78,550	1.8%
05-5017-**-***	Legal Fees	2,008	1,351	658	67.3%
05-5026-**-***	Small Vehicle Fuel	500	-	500	0.0%
05-5027-**-***	Insurance - Property/Liability	8,192	4,429	3,763	54.1%
05-5031-**-***	Safety Supplies	1,004	-	1,004	0.0%
05-5034-**-***	Travel Expense/Tech. Conferences	2,000	300	1,700	15.0%
05-5035-**-***	Training Expense	4,000	53	3,947	1.3%
05-5036-**-***	Laboratory Supplies	24,504	15,424	9,080	62.9%
05-5038-**-***	Permits	198,996	210,586	(11,590)	105.8% (6)
05-5039-**-***	Membership Dues/Fees	5,564	-	5,564	0.0%
05-5044-**-***	Offshore Monitoring	22,000	19,765	2,235	89.8% (7)
05-5046-**-***	Effluent Chemistry	20,004	4,461	15,543	22.3%
05-5058-**-***	Maintenance Equip. & Facilities (Common)	1,004	6,215	(5,211)	619.0% (8)
05-5067-**-***	Port Cleaning	35,000	-	35,000	0.0%
05-6500-**-***	IT Allocations in to PC's & Depts.	11,716	5,560	6,156	47.5%
	Total Other Expenses	417,996	269,594	148,402	64.5%
	Total Expenses	563,500	371,176	192,324	65.9%
08 - Pre Treatment					
Salary and Fringe					
08-5000-**-***	Regular Salaries-O&M	81,396	48,332	33,064	59.4%
08-5306-**-***	Scheduled Holiday Work	356	-	356	0.0%
08-5315-**-***	Comp Time - Environment	2,476	-	2,476	0.0%
08-5401-**-***	Fringe Benefits IN to PC's & Depts.	42,852	25,444	17,408	59.4%
	Total Payroll Costs	127,080	73,776	53,304	58.1%
Other Expenses					
08-5011-**-***	Laboratory Services	3,008	100	2,908	3.3%
08-5015-**-***	Management Support Services	4,000	-	4,000	0.0%
08-5016-**-***	Audit - Environmental	1,252	-	1,252	0.0%
08-5017-**-***	Legal Fees	2,532	3,019	(487)	119.2% (9)
08-5018-**-***	Public Notices/ Public Relations	5,500	-	5,500	0.0%
08-5021-**-***	Small Vehicle Expense - 31A	1,052	-	1,052	0.0%
08-5022-**-***	Miscellaneous Expense	2,020	-	2,020	0.0%
08-5026-**-***	Small Vehicle Fuel - 37A	1,096	30	1,066	2.7%
08-5027-**-***	Insurance - Property/Liability	2,844	1,538	1,306	54.1%
08-5028-**-***	Small Tools & Supplies	3,496	294	3,202	8.4%
08-5034-**-***	Travel Expense/Tech. Conferences	2,220	300	1,920	13.5%
08-5035-**-***	Training Expense	796	175	621	22.0%
08-5038-**-***	Permits and Fines	6,000	-	6,000	0.0%
08-5039-**-***	Membership Dues/Fees	800	411	389	51.4%
08-6500-**-***	IT Allocations in to PC's & Depts.	10,052	4,770	5,282	47.5%
	Total Other Expenses	46,668	10,637	36,032	22.8%
	Total Expenses	173,748	84,412	89,336	48.6%
12 - Water Reclamation Permits					
Salary and Fringe					
12-5000-**-***	Regular Salaries-O&M	50,404	21,758	28,646	43.2%
12-5401-**-***	Fringe Benefits IN to PC's & Depts.	26,528	11,454	15,074	43.2%
	Total Payroll Costs	76,932	33,212	43,720	43.2%
Other Expenses					
12-5015-**-***	Management Support Services	157,000	76,838	80,162	48.9%
12-5017-**-***	Legal Fees	2,008	7,181	(5,173)	357.6% (9)
12-5027-**-***	Insurance - Property/Liability	3,116	1,685	1,431	54.1%
12-5034-**-***	Travel Expense/Tech. Conferences	1,352	-	1,352	0.0%
12-5038-**-***	Permits	21,512	20,362	1,150	94.7%
12-6500-**-***	IT Allocations in to PC's & Depts.	6,236	2,954	3,282	47.4%
	Total Other Expenses	191,224	109,020	82,204	57.0%
	Total Expenses	268,156	142,232	125,924	53.0%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended December 31, 2020
(in dollars)

	FY 2020-21 Budget	Actual	(Over)/Under Budget	% Expended	
15 - Coastal Treatment Plant					
Salary and Fringe					
15-5000-**-***	Regular Salaries-O&M	939,512	439,135	500,377	46.7%
15-5001-**-***	Overtime Salaries-O&M	21,760	8,706	13,054	40.0%
15-5306-**-***	Scheduled Holiday Work	5,096	8,380	(3,284)	164.4%
15-5315-**-***	Comp Time - O&M	2,100	1,002	1,098	47.7%
15-5401-**-***	Fringe Benefits IN to PC's & Depts.	494,584	231,175	263,409	46.7%
15-5700-**-***	Standby Pay	16,900	6,955	9,945	41.2%
	Total Payroll Costs	1,479,952	695,353	784,599	47.0%
Other Expenses					
15-5002-**-***	Electricity	256,000	85,068	170,932	33.2%
15-5003-**-***	Natural Gas	3,000	399	2,601	13.3%
15-5004-**-***	Potable & Reclaimed Water	25,004	10,651	14,353	42.6%
15-5006-**-***	Chlorine/Sodium Hypochlorite	92,000	40,643	51,357	44.2%
15-5007-**-***	Polymer Products	1,004	-	1,004	0.0%
15-5008-**-***	Ferric Chloride	46,996	22,333	24,663	47.5%
15-5009-**-***	Odor Control Chemicals	50,000	18,950	31,050	37.9%
15-5011-**-***	Laboratory Services	8,000	7,101	899	88.8% (10)
15-5012-**-***	Grit Hauling	20,996	11,184	9,812	53.3%
15-5013-**-***	Landscaping	56,000	15,875	40,125	28.3%
15-5015-**-***	Management Support Services	2,500	99	2,401	4.0%
15-5017-**-***	Legal Fees	15,700	376	15,324	2.4%
15-5019-**-***	Contract Services Misc.	85,000	45,882	39,118	54.0%
15-5021-**-***	Small Vehicle Expense - 31A	5,504	606	4,898	11.0%
15-5022-**-***	Miscellaneous Expense	1,000	244	756	24.4%
15-5023-**-***	Office Supplies - All	4,004	2,896	1,108	72.3%
15-5024-**-***	Petroleum Products	3,000	3,264	(264)	108.8% (11)
15-5025-**-***	Uniforms	8,996	3,764	5,232	41.8%
15-5026-**-***	Small Vehicle Fuel - 37A	2,000	723	1,277	36.1%
15-5027-**-***	Insurance - Property/Liability	46,396	25,086	21,310	54.1%
15-5028-**-***	Small Tools & Supplies	8,000	3,632	4,368	45.4%
15-5030-**-***	Trash Disposal	2,996	985	2,011	32.9%
15-5031-**-***	Safety Program & Supplies	33,352	15,278	18,074	45.8%
15-5032-**-***	Equipment Rental	1,000	-	1,000	0.0%
15-5033-**-***	Recruitment	500	150	350	29.9%
15-5034-**-***	Travel Expense/Tech. Conferences	5,748	148	5,600	2.6%
15-5035-**-***	Training Expense	8,356	396	7,960	4.7%
15-5036-**-***	Laboratory Supplies	11,004	6,225	4,779	56.6%
15-5037-**-***	Office Equipment	2,000	-	2,000	0.0%
15-5038-**-***	Permits	8,000	338	7,662	4.2%
15-5039-**-***	Membership Dues/Fees	2,600	2,995	(395)	115.2% (5)
15-5047-**-***	Access Road Expenses	44,004	38,785	5,219	88.1% (12)
15-5048-**-***	Storm Damage	20,008	-	20,008	0.0%
15-5050-**-***	Contract Services Generators - 29A	4,004	-	4,004	0.0%
15-5052-**-***	Janitorial Services	12,004	4,949	7,055	41.2%
15-5054-**-***	Diesel Truck Maint - 31B	1,004	-	1,004	0.0%
15-5055-**-***	Diesel Truck Fuel - 37B	496	-	496	0.0%
15-5057-**-***	Maintenance Equip. & Facilities (Liquids)	179,000	65,658	113,342	36.7%
15-5058-**-***	Maintenance Equip. & Facilities (Common)	22,000	801	21,199	3.6%
15-5060-**-***	Maintenance Equip. & Facilities (AWT) 41-E	37,000	7,726	29,274	20.9%
15-5061-**-***	Mileage	500	124	376	0.0%
15-5076-**-***	SCADA Infrastructure	30,500	15,918	14,582	52.2%
15-5303-**-***	Group Insurance Waiver	3,600	1,828	1,772	50.8%
15-5305-**-***	Medicare Tax Payments for Employees	1,336	1,075	261	80.5%
15-5705-**-***	Monthly Car Allowance	4,204	2,132	2,072	50.7%
15-6500-**-***	IT Allocations in to PC's & Depts.	116,012	55,059	60,953	47.5%
	Total Other Expenses	1,292,328	519,446	772,882	40.2%
	Total Expenses	2,772,280	1,214,799	1,557,481	43.8%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended December 31, 2020
(in dollars)

	FY 2020-21 Budget	Actual	(Over)/Under Budget	% Expended	
17 - Joint Regional Wastewater Reclamation and Sludge Handling					
Salary and Fringe					
17-5000-**-***	Regular Salaries-O&M	1,721,896	782,228	939,668	45.4%
17-5001-**-***	Overtime Salaries-O&M	66,064	24,707	41,357	37.4%
17-5306-**-***	Scheduled Holiday Work	14,880	19,681	(4,801)	132.3%
17-5315-**-***	Comp Time - O&M	2,564	2,391	173	93.2%
17-5401-**-***	Fringe Benefits IN to PC's & Depts.	906,456	411,789	494,667	45.4%
17-5700-**-***	Standby Pay	25,356	14,170	11,186	55.9%
	Total Payroll Costs	2,737,216	1,254,966	1,482,250	45.8%
Other Expenses					
17-5002-**-***	Electricity	350,000	276,389	73,611	79.0% (13)
17-5003-**-***	Natural Gas	109,996	53,168	56,828	48.3%
17-5004-**-***	Potable & Reclaimed Water	28,000	14,621	13,379	52.2%
17-5005-**-***	Co-generation Power Credit	(669,000)	(325,499)	(343,501)	48.7%
17-5006-**-***	Chlorine/Sodium Hypochlorite	380,000	200,238	179,762	52.7%
17-5007-**-***	Polymer Products	460,000	198,842	261,158	43.2%
17-5008-**-***	Ferric Chloride	265,004	145,303	119,701	54.8%
17-5009-**-***	Odor Control Chemicals	43,996	15,439	28,557	35.1%
17-5010-**-***	Other Chemicals - Misc.	1,996	-	1,996	0.0%
17-5011-**-***	Laboratory Services	17,072	6,085	10,987	35.6%
17-5012-**-***	Grit Hauling - 21A	50,000	19,811	30,189	39.6%
17-5013-**-***	Landscaping	74,996	88,236	(13,240)	117.7% (14)
17-5015-**-***	Management Support Services	21,000	9,599	11,401	45.7%
17-5017-**-***	Legal Fees	5,004	10,672	(5,668)	213.3% (15)
17-5019-**-***	Contract Services Misc.	95,000	43,464	51,536	45.8%
17-5021-**-***	Small Vehicle Expense	7,000	2,985	4,015	42.6%
17-5022-**-***	Miscellaneous Expense	7,000	514	6,486	7.3%
17-5023-**-***	Office Supplies - All	11,000	5,611	5,389	51.0%
17-5024-**-***	Petroleum Products	20,000	2,520	17,480	12.6%
17-5025-**-***	Uniforms	27,004	13,134	13,870	48.6%
17-5026-**-***	Small Vehicle Fuel	9,004	3,939	5,065	43.8%
17-5027-**-***	Insurance - Property/Liability	115,592	62,499	53,093	54.1%
17-5028-**-***	Small Tools & Supplies	29,000	8,967	20,033	30.9%
17-5030-**-***	Trash Disposal	1,996	1,039	957	52.1%
17-5031-**-***	Safety Program & Supplies	40,504	21,583	18,921	53.3%
17-5032-**-***	Equipment Rental	3,004	-	3,004	0.0%
17-5033-**-***	Recruitment	1,004	295	709	29.3%
17-5034-**-***	Travel Expense/Tech. Conferences	9,496	632	8,864	6.7%
17-5035-**-***	Training Expense	12,700	1,782	10,918	14.0%
17-5036-**-***	Laboratory Supplies	23,672	8,485	15,187	35.8%
17-5037-**-***	Office Equipment	50,000	16,546	33,454	33.1%
17-5038-**-***	Permits	21,508	2,073	19,435	9.6%
17-5039-**-***	Membership Dues/Fees	4,860	3,934	926	80.9% (5)
17-5049-**-***	Biosolids Disposal	905,000	440,865	464,135	48.7%
17-5050-**-***	Contract Services Generators - 29A	8,000	-	8,000	0.0%
17-5052-**-***	Janitorial Services	41,000	13,899	27,101	33.9%
17-5053-**-***	Contract Serv - Digester Cleaning - 29E	65,000	-	65,000	0.0%
17-5054-**-***	Diesel Truck Maint	19,000	6,917	12,083	36.4%
17-5055-**-***	Diesel Truck Fuel - 37B	8,004	2,530	5,474	31.6%
17-5056-**-***	Maintenance Equip. & Facilities (Solids)	206,000	101,077	104,923	49.1%
17-5057-**-***	Maintenance Equip. & Facilities (Liquids)	236,000	149,735	86,265	63.4%
17-5058-**-***	Maintenance Equip. & Facilities (Common)	34,000	84,896	(50,896)	249.7% (16)
17-5059-**-***	Maintenance Equip. & Facilities (Co-Gen)	591,000	182,139	408,861	30.8%
17-5060-**-***	Maintenance Equip. & Facilities (AWT)	38,000	43,650	(5,650)	114.9% (17)
17-5061-**-***	Mileage	1,004	526	478	52.4%
17-5068-**-***	MNWD Potable Water Supplies & Svcs.	42,000	7,925	34,075	18.9%
17-5076-**-***	SCADA Infrastructure	30,504	15,919	14,585	52.2%
17-5077-**-***	IT Direct	5,004	-	5,004	0.0%
17-5105-**-***	Co-Generation Power Credit - Offset	669,000	325,499	343,501	48.7%
17-5303-**-***	Group Insurance Waiver	7,200	3,378	3,822	46.9%
17-5309-**-***	Operating Leases	6,004	-	6,004	0.0%
17-5705-**-***	Monthly Car Allowance	8,388	4,265	4,123	50.8%
17-6241-**-***	Education Reimbursement	-	606	(606)	0.0%
17-6500-**-***	IT Allocations in to PC's & Depts.	212,628	100,910	111,718	47.5%
	Total Other Expenses	4,760,144	2,397,641	2,362,503	50.4%
	Total Expenses	7,497,360	3,652,607	3,844,753	48.7%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended December 31, 2020
(in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	% Expended
21 - Effluent Transmission Main					
Salary and Fringe					
21-5000-**-***	Regular Salaries-O&M	1,384	326	1,058	23.6%
21-5401-**-***	Fringe Benefits IN to PC's & Depts.	732	172	560	23.5%
	Total Payroll Costs	<u>2,116</u>	<u>498</u>	<u>1,618</u>	<u>23.5%</u>
Other Expenses					
21-5014-**-***	Engineering - Misc.	-	-	-	0.0%
21-5019-**-***	Contract Services Misc. - 29	1,004	-	1,004	0.0%
21-5027-**-***	Insurance - Property/Liability	968	523	445	54.1%
21-5035-**-***	Training Expense	-	-	-	0.0%
	Total Other Expenses	<u>1,972</u>	<u>523</u>	<u>1,449</u>	<u>26.5%</u>
	Total Expenses	<u>4,088</u>	<u>1,021</u>	<u>3,067</u>	<u>25.0%</u>
24 - Aliso Creek Ocean Outfall					
Salary and Fringe					
24-5000-**-***	Regular Salaries-O&M	103,084	63,180	39,904	61.3%
24-5001-**-***	Overtime Salaries-O&M	1,576	776	800	49.2%
24-5306-**-***	Scheduled Holiday Work	168	292	(124)	0.0%
24-5401-**-***	Fringe Benefits IN to PC's & Depts.	54,264	33,260	21,004	61.3%
	Total Payroll Costs	<u>159,092</u>	<u>97,508</u>	<u>61,585</u>	<u>61.3%</u>
Other Expenses					
24-5015-**-***	Management Support Services	80,000	5,132	74,868	6.4%
24-5017-**-***	Legal Fees	2,008	-	2,008	0.0%
24-5027-**-***	Insurance - Property/Liability	8,556	4,626	3,930	54.1%
24-5031-**-***	Safety Supplies	1,004	-	1,004	0.0%
24-5034-**-***	Travel Expense/Tech. Conferences	2,004	300	1,704	15.0%
24-5035-**-***	Training Expense	2,004	53	1,951	2.6%
24-5036-**-***	Laboratory Supplies	24,500	13,844	10,656	56.5%
24-5038-**-***	Permits	199,000	198,664	336	99.8% (4)
24-5039-**-***	Membership Dues/Fees	5,564	-	5,564	0.0%
24-5044-**-***	Offshore Monitoring	22,004	30,995	(8,991)	140.9% (7)
24-5046-**-***	Effluent Chemistry	20,000	1,596	18,404	8.0%
24-5058-**-***	Maintenance Equip. & Facilities (Common) 41-C	1,004	-	1,004	0.0%
24-5067-**-***	Port Cleaning	35,000	-	35,000	0.0%
24-5802-**-***	Shipping/Freight	100	-	100	0.0%
24-6500-**-***	IT Allocations in to PC's & Depts.	12,728	6,041	6,687	47.5%
	Total Other Expenses	<u>415,476</u>	<u>261,251</u>	<u>154,225</u>	<u>62.9%</u>
	Total Expenses	<u>574,568</u>	<u>358,758</u>	<u>215,810</u>	<u>62.4%</u>
	Total O&M Expenses	<u>17,719,855</u>	<u>8,576,047</u>	<u>9,143,808</u>	<u>48.4%</u>

**South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC**

For the Period Ended December 31, 2020

- (1) Odor levels continue to rise in the collection system resulting in higher levels of Ferric Chloride usage to control hydrogen sulfide in the treatment plants and the digester gas.
- (2) ADS was retained to provide alternative flow measurement for JBL's Plant #2 during an extended construction shutdown.
- (3) Replace old equipment and PPE happens in July of each year.
- (4) SOCWA permits are primarily paid in July and November each year.
- (5) Membership Dues/Fees are primarily paid in July and October of each year.
- (6) Annual cost for NPDES permit, no additional costs incurred this fiscal year; Water Quality Fee increases.
- (7) Annual, one-time cost for kelp overflight required by the NPDES permit; Water Quality Fee increases.
- (8) The surge tower site was re-fenced and cleared to discourage unauthorized entry.
- (9) Additional cost related to required pretreatment ordinance update as required by the SWRCB and PC agreement review.
- (10) Annual priority pollutants testing as required by NPDES permit.
- (11) Additional fuel purchases have been required at CTP due to several extended power outages and construction-related shutdowns.
- (12) Recently completed the annual access road asphalt repairs.
- (13) Engine repairs and equipment overhauls have required engine shutdowns and electricity purchases.
- (14) Tree removals from emergency projects and Santa Ana Winds have been elevated this year.
- (15) Engine O&M and Construction agreements reviews.
- (16) Emergency water line repairs completed at RTP.
- (17) Purchasing related to valves and actuators replacement at AWT.

South Orange County Wastewater Authority
Budget vs. Actual Comparison - Engineering
 For the Period Ended December 31, 2020
 (in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
01-5000-03-00-00	Regular Salaries-O&M	196,836	81,462	115,374	41.4%
01-5401-03-00-00	Fringe Benefits IN to PC's & Depts.	103,621	42,884	60,737	41.4%
	Total Payroll Costs	300,457	124,346	176,111	41.4%
Other Expenses					
01-5022-03-00-00	Miscellaneous Expense	3,184	612	2,572	19.2%
01-5023-03-00-00	Office Supplies - All	208	31	177	14.9%
01-5031-03-00-00	Safety Supplies	306	-	306	0.0%
01-5034-03-00-00	Travel Expense/Tech. Conferences	6,439	-	6,439	0.0%
01-5035-03-00-00	Training Expense	2,244	-	2,244	0.0%
01-5037-03-00-00	Office Equipment	408	-	408	0.0%
01-5039-03-00-00	Membership Dues/Fees	1,377	-	1,377	0.0%
01-5061-03-00-00	Mileage	510	47	463	9.1%
01-5309-03-00-00	Operating Leases	6,829	4,608	2,221	67.5%
01-5705-03-00-00	Monthly Car Allowance	4,200	2,132	2,068	50.8%
01-5802-03-00-00	Shipping/Freight	312	-	312	0.0%
01-6500-03-00-00	IT Allocations in to PC's & Depts.	50,794	24,107	26,687	47.5%
	Total Other Expenses	76,810	31,537	45,274	41.1%
	Total Engineering Expenses	377,267	155,883	221,385	41.3%

South Orange County Wastewater Authority
Budget vs. Actual Comparison- Administration
 For the Period Ended December 31, 2020
 (in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
01-6000-04-00-00	Regular Salaries-Admin or IT	944,542	463,532	481,010	49.1%
01-6001-04-00-00	Overtime Salaries-Admin or IT	20,000	21,401	(1,401)	107.0% (1)
01-6315-04-00-00	Comp Time - Admin	15,000	4,463	10,537	29.8%
01-6401-04-00-00	Fringe Benefits IN to ADMIN or IT	497,236	244,018	253,218	49.1%
	Total Payroll Costs	1,476,778	733,414	743,364	49.7%
Other Expenses					
01-5018-04-00-00	Public Notices/ Public Relations	-	2,180	(2,180)	0.0% (2)
01-6101-04-00-00	HR Recruitment & Employee Relations	26,500	189	26,311	0.7%
01-6102-04-00-00	Subscriptions	2,040	1,366	674	66.9%
01-6200-04-00-00	Management Support Services	102,000	24,987	77,013	24.5%
01-6201-04-00-00	Audit	44,900	25,000	19,900	55.7%
01-6202-04-00-00	Legal	200,000	139,476	60,524	69.7%
01-6204-04-00-00	Postage	4,000	656	3,344	16.4%
01-6223-04-00-00	Office Supplies - Admin	6,120	3,038	3,082	49.6%
01-6224-04-00-00	Office Equipment Admin or IT	1,000	767	233	76.7%
01-6234-04-00-00	Memberships & Trainings	88,950	23,969	64,981	26.9%
01-6239-04-00-00	Travel & Conference	10,965	898	10,067	8.2%
01-6241-04-00-00	Education Reimbursement	3,000	-	3,000	0.0%
01-6310-04-00-00	Miscellaneous	23,460	9,919	13,541	42.3%
01-6311-04-00-00	Mileage	1,211	26	1,185	2.1%
01-6317-04-00-00	Contract Services Misc	5,610	2,764	2,846	49.3%
01-6500-04-00-00	IT Allocations in to PC's & Depts.	116,635	55,354	61,281	47.5%
01-6601-04-00-00	Shipping/Freight	3,740	1,619	2,121	43.3%
01-6705-04-00-00	Monthly Car Allowance	12,000	6,092	5,908	50.8%
	Total Other Expenses	652,131	300,324	353,831	46.1%
Total Admin Expenses		2,128,909	1,033,738	1,097,195	48.6%

(1) Overtime salary and comp should be considered together, 73.9%

(2) Publication fee for ordinance

South Orange County Wastewater Authority
Budget vs. Actual Comparison-IT
 For the Period Ended December 31, 2020
 (in dollars)

		FY 2020-21 Budget	Actual	(Over)/Under Budget	% Expended
Salary & Fringe					
01-6000-05-00-00	Regular Salaries-Admin or IT	93,909	51,345	42,564	54.7%
01-6001-05-00-00	Overtime Salaries-Admin or IT	-	-	-	0.0%
01-6315-05-00-00	Comp Time - IT	5,000	-	5,000	0.0%
01-6401-05-00-00	Fringe Benefits IN to ADMIN or IT	49,437	27,030	22,407	54.7%
	Total Salary & Fringe	148,346	78,375	69,971	52.8%
Other Expenses					
01-5028-05-00-00	Small Tools & Supplies	1,000	-	1,000	0.0%
01-5035-05-00-00	Training Expense	2,000	-	2,000	0.0%
01-5037-05-00-00	Office Equipment	600	-	600	0.0%
01-6234-05-00-00	Memberships & Trainings	1,375	-	1,375	0.0%
01-6239-05-00-00	Travel & Conference	1,750	-	1,750	0.0%
01-6300-05-00-00	Software Maintenance Agreements	38,779	20,928	17,851	54.0% (1)
01-6301-05-00-00	Hardware Maintenance Agreements	7,126	602	6,524	8.5%
01-6302-05-00-00	Cloud Subscriptions (Internet)	148,369	59,281	89,088	40.0%
01-6303-05-00-00	Telecommunications	150,534	69,071	81,464	45.9%
01-6305-05-00-00	IT Professional Services	108,060	74,094	33,966	68.6% (2)
01-6306-05-00-00	Small Hardware Purchases (< \$5k)	29,200	6,119	23,081	21.0%
01-6307-05-00-00	Small Software Purchases & Licenses (<\$5k)	26,908	6,570	20,338	24.4%
01-6308-05-00-00	IT Memberships	160	-	160	0.0%
01-6309-05-00-00	Operating Leases	55,200	26,927	28,273	48.8% (3)
01-6310-05-00-00	Miscellaneous	5,000	-	5,000	0.0%
01-6312-05-00-00	Computer & Photocopy Supplies	-	1,836	(1,836)	0.0%
	Total Other Expenses	576,061	265,427	310,634	46.1%
	Total Expenses before Allocation	724,407	343,802	380,605	47.5%
IT Allocations (Out) to PC's & Depts					
01-6400-05-00-00	IT Allocations (OUT) to PC's & Depts.	(724,407)	(343,802)	(380,605)	47.5%
	Total IT Allocations (Out) to PC's & Depts	(724,407)	(343,802)	(380,605)	47.5%

- (1) Annual subscription costs that renew at the beginning of the fiscal year.
- (2) Costs for server rack migration and wiring clean-up at CTP and RTP.
- (3) Annual service contract for facility printer/copiers.

**South Orange County Wastewater Authority
FY 2020-21 Actual Fringe Pool and Rate**

	FY 2015-16 Actual	FY 2016-17 Actual	FY 2017-18 Actual	FY 2018-19 Actual	FY 2019-20 Actual	FY 2020-21 Budget	FY 2020-21 6 Mos. Actual	Balance of Year	FY 2020-21 Forecast
457 Plan - Employer Contribution	\$13,821	\$83,925	\$75,524	\$64,550	\$74,097	\$80,000	\$58,774	\$21,226	\$80,000
Accrued Administrative Leave	34,879	30,478	23,929	26,567	47,949	28,131	9,016	19,115	28,131
Accrued Holiday	221,783	220,371	234,247	244,674	251,092	263,680	174,725	59,092	233,817
Accrued Personal Leave	74,238	76,638	83,205	87,369	97,085	90,120	40,965	49,155	90,120
FFCRA Leave							21,492	10,000	31,492
Accrued Sick Pay	242,262	262,987	204,767	274,389	233,159	286,116	125,614	160,502	286,116
Accrued Vacation	372,526	416,343	345,815	419,442	383,841	394,012	166,524	227,488	394,012
Bereavement Pay	1,345	8,088	10,892	10,820	9,043	8,700	2,193	6,507	8,700
Jury Duty			5,817	3,149	5,156	2,500	1,005	1,495	2,500
Disability Insurance - Private	51,728	56,122	57,924	56,713	61,659	62,379	35,568	26,811	62,379
Group Medical Insurance	948,341	1,017,679	864,239	918,687	902,394	954,938	468,440	486,498	954,938
Medicare Tax - Employer	94,167	94,550	96,326	100,314	104,441	101,836	54,999	46,837	101,836
Retiree Health Savings Program (RHS)			17,800	29,600	39,600	45,600	21,800	23,800	45,600
Retiree Health PARS Investment	500,000	504,000	210,000						
Retiree Health Benefits	281,389	384,936	354,582	423,438	456,943				
Retirement - PERS Normal Costs	517,823	500,175	504,975	570,071	584,043	617,724	309,608	308,062	617,669
Retirement - PERS Unfunded Liability	432,628	499,903	599,849	743,843	867,337				
Unemployment Ins./Reimbursement	1,378	1,234		11,608				1,000	1,000
Workers Compensation Ins.	76,883	212,990	233,538	159,452	192,000	202,000	43,650	158,350	202,000

Total O&M Budget Fringe Benefits Pool	\$3,865,192	\$4,370,418	\$3,923,431	\$4,144,686	\$4,309,837	\$3,137,735	\$1,534,372	\$1,605,937	\$3,140,309
Change in Fringe Pool		13.1%	-10.2%	5.6%	4.0%	-27.2%			0.1%

Pay for Time Worked Labor Base(Regular Salaries)

O&M	3,184,417	3,224,868	3,282,424	3,451,281	3,559,419	1,724,379	1,835,040	3,559,419	
Environmental	815,299	789,929	827,189	933,333	951,174	491,531	459,643	951,174	
Engineering including CIP Labor	305,422	377,076	396,554	397,732	411,345	219,351	191,994	411,345	
Admin	695,744	857,635	896,766	934,332	944,542	463,532	481,010	944,542	
IT	44,447	84,015	85,028	92,851	93,909	51,345	42,564	93,909	
Total Pay for Time Worked Labor Base	4,976,917	5,045,329	5,333,523	5,487,962	5,809,528	5,960,389	2,950,138	3,010,251	5,960,389
Fringe Rate	78%	86.6%	73.6%	75.5%	74.2%	52.6%	52.0%	53.3%	52.7%
Change in Labor Base		1.4%	5.7%	2.9%	5.9%	2.6%			0.0%

Agenda Item

41

Board of Directors Meeting

Meeting Date: February 4, 2021

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Mary Carey, Finance Controller

SUBJECT: Q2 FY 2020-21 Cash Roll Forward as of December 31, 2020

Summary/Discussion

The following selected financial reports are routinely provided quarterly to the Finance Committee for recommendation to the Board of Directors to review Cash Roll Forward and receive and file the following documents.

Cash Roll Forward Q2, December 31, 2020

Cash Roll Forward balances are attached:

- Cash Roll Forward Notes
- Large Capital Cash Reconciliation to General Ledger (GL)
- Large Capital Cash Roll Forward Balance by Project Committee and Project
- Non-Capital Cash Roll Forward Balance by Project Committee and Project
- Non-Capital – Miscellaneous Cash Roll Forward Balance by Project Committee and Project
- Small Capital Cash Roll Forward balance by Project Committee and Project

Recommended Action: The Finance Committee recommends to the Board of Directors to receive and file the Q2 Fiscal Year 2020-21 Cash Roll Forward as submitted.

Cash Roll Forward Notes Q2 FY 2020-21

1. Cash on Hand from Net Position Statement and reconciled to the Bank Statement
2. Adjustment for Current Assets and Liabilities, Obligations against the Cash (accounts payable, payroll accruals, Use Audit Due (To) Member Agencies; the offset to these items is in the Use Audit as an Expense or in Construction-in-Progress if Capital related.)
Amounts due to the Authority, Accounts Receivable, Use Audit Due (To) and From Member Agencies, Prepays and Deposits.
3. Available Cash (Item 1 above less Item 2). The Authority does not carry Cash Reserves; there is some carryover cash for small capital and non-capital projects in-process at yearend. Large Capital Cash is held until project completion which could span several years.
4. Large Capital Cash is supported by a subsidiary report detailing by project committee, wastewater
 - a) Beginning Cash Balance from the Audited 6/30/2020 Cash Roll Forward
 - b) Contributions based on the quarterly capital billings
 - c) Actual expenditures
 - d) Use Audit Settlement
 - e) Net Cash balance
5. Total Large Capital Cash.
6. Small Capital, Non-Capital and Non-Capital Misc. Carryover.
7. Difference is additional cash from interest on LAIF account balance and sources other than Member Agencies.

South Orange County Wastewater Authority
Cash Reconciliation
Fiscal Year End 2017, 2018, 2019, 2020, Q1 and Q2 2021 Preliminary¹

	6/30/2017	6/30/2018	6/30/2019	6/30/2020	9/30/2020	12/31/2020
(1) Cash on Hand	12,949,694	13,557,237	20,857,094	22,361,420	17,461,029	15,128,358
Accounts Payable	(2,682,688)	(2,314,106)	(1,981,080)	(3,531,550)	(2,686,707)	(1,846,911)
Accrued Payroll	(102,661)	(127,396)	(100,221)	(160,049)	(80,430)	(263,681)
Accounts Receivable	1,069,282	1,660,444	14,179	49,286	689,873	
(2) PTO Reserves	(653,282)	(620,032)	(683,536)	(734,477)	(656,539)	(727,255)
Due to Mbr Agency	(1,358,841)	(3,910,599)	(2,475,322)	(1,656,822)	(1,606,352)	(1,606,352)
Due From Mbr Agency	1,069,819	2,433,322	856,669	870,004	761,560	761,560
Mbr Agency Refund held for FY 19-20			(1,068,028)			
Audit Adjustment						
Prepaid	65,082	204,867	211,725	155,939	392,305	255,519
Deposits	19,500	-				

	10,375,905	10,883,737	15,631,481	17,353,752	14,274,740	11,701,238
(3) Available Cash						
(4) Large Capital Cash as of June 30th 2017, 2018, 2019, 2020 & 2021	9,168,439	8,793,369	15,067,539	15,616,950	11,897,997	9,722,225
Non Capital Engineering Cash Balance	295,062	(81,041)				
Moulton Niguel Non Capital Engineering Accounts Receivable	(21,831)	(22,416)				
Moulton Niguel Large Capital Accounts Receivable	649,490	1,382,368				
Add Use Audit Settlement FY 17-18		216,467				
Add Use Audit Settlement FY 16-17	(49,931)	(49,931)				
(5) Total Large Capital Cash	10,041,229	10,238,817	15,067,539	15,616,950	11,897,997	9,722,225
(6) Small Capital Carryover	(129,000)		172,996	565,000	333,233	247,462
Non-Capital Carryover				369,508	337,086	305,956
Non-Capital Misc. Carryover				252,298	208,974	179,935
Mbr Agency Refund held for FY 19-20						
Cash Collected for PC 2 Zephyr Wall	76,318		76,318			
Other misc., fringe adj, interest adj, etc.	22,331	(4,916)				
Small Capital Cash Collected in Excess of Expenditures					445,070	626,414
Non Capital Cash Collected in Excess of Expenditures					56,803	70,707
Non Capital Misc Cash Collected in Excess of Expenditures					18,750	37,500
O&M Cash Collected in Excess of Expenditures					342,910	(314,872)
Net Cash as of June 30th 2017, 2018, 2019, 2020 & Q1, Q2 2021	10,010,879	10,233,900	15,316,853	16,803,755	13,640,823	10,875,326
(7) Difference	365,027	649,837	314,628	549,996	633,917	825,912

Additional Cash Is:						
Prior Balance	281,422	365,027	649,837	314,628	549,996	633,917
Payment to Member Agencies			(649,837)	(314,628)		
County of Orange Bankruptcy Payment						
County of Orange Admin Fees						
County of Orange Access Maintenance						
City of Laguna Niguel Heat Transfer						
SMWD Lab Fees						
Coke machine						
FEMA Reimbursement		136,995		9,277		
CA State Cost Reimbursement				15,356		
Interest Income Received	45,294	114,150	249,482	405,052		36,652
Recycling Income	11,708	2,112	1,618	1,966.23		1,420
PC 23 Admin Payment	9,135					5,300
Mutual Omaha Refund	8,034					
Interest received for 4th qtr	4,934	25,256	52,302	113,947	83,920	
LAIF Interest Adj.	3,000					
Grant Revenue	1,500					148,623
Other misc. expenses				(4,277)		
Sale of Fixed Assets		6,297	11,226	8,675		
Other misc adjustments						
Total Other Cash	365,027	649,837	314,628	549,996	633,917	825,912

South Orange County Wastewater Authority

Total Large Capital Projects Cash Roll Forward for Q2 FY 2020-21

Large Capital Cash Balance as of December 31, 2020										
	16	17	18	19	20	21	22	23	24	
	CLB	CSC	CSJC	ETWD	EBSD	IRWD	MNWD	SMWD	SCWD	Total
PC 02 J B Latham										
Liquids										
3202-000 - Preliminary and Primary Treatment Improvements Design (2016)	-	-	49,604	-	-	-	37,244	27,937	46,556	161,341
3252-000 - Plant 1 Standby Power Generator Repl (2017)	-	-	37,246	-	-	-	27,955	20,968	34,946	121,115
3253-000 - Effluent System Valves Replacement (2107)	-	-	27,244	-	-	-	21,598	16,200	26,997	92,039
3254-000 - Additional Package B Liquids Design (2017)	-	-	46,669	-	-	-	35,016	26,262	43,771	151,718
3280-000 - Facility Improvements B - Basin Upgrades (2018)	-	-	12,638	-	-	-	9,547	7,230	11,956	41,371
3285-000 - Main Plant Drain Line Reconstruction (2018)	-	-	(4)	-	-	-	(3)	(3)	(4)	(15)
3215-000 - Motor Control Center M Replacement Design (2019)	-	-	9,902	-	-	-	7,427	5,570	9,283	32,182
3220-000 - Facility Improvements B - Basin Upgrades Construction I (2019)	-	-	163,506	-	-	-	122,681	91,935	153,326	531,448
32211L-000 - Plant 2 Grit Area Rehabilitation	-	-	(27,783)	-	-	-	(20,837)	(15,628)	(26,046)	(90,294)
Total PC 02 Liquids	-	-	319,022	-	-	-	240,627	180,472	300,785	1,040,906
Common										
3216-000 - Hoist System for Maintenance Shop (2013)	-	-	(0)	-	-	-	(0)	(0)	(0)	(1)
3260-000 - SCADA System Upgrade (2017)	-	-	(5,115)	-	-	-	(3,763)	(3,846)	(4,112)	(16,835)
3286-000 - PLC Upgrades (2018)	-	-	15,345	-	-	-	11,300	11,544	12,337	50,526
3221-000 - Electrical System Evaluation (2019)	-	-	9,287	-	-	-	6,831	6,982	7,465	30,564
3231-000 Facility Improvements B - Common Upgrades Construction	-	-	120,129	-	-	-	88,357	90,304	96,550	395,341
Total PC 02 Common	-	-	139,645	-	-	-	102,726	104,984	112,240	459,595
Solids										
3209-000 - Facility Improvements - Co-Generation Rep. (2016)	-	-	30,000	-	-	-	21,603	28,396	20,001	100,000
3287-000 - Facility Improvements B - DAFT and Ancillary Solids Improvements	-	-	(267,927)	-	-	-	(193,116)	(253,429)	(178,618)	(893,089)
3222-000 - Centrate System Design (2019)	-	-	6,817	-	-	-	4,913	6,449	4,545	22,724
3223-000 - Emulsion Polymer Feeder Replacement (2019)	-	-	22,259	-	-	-	16,043	21,056	14,840	74,198
3224-000 - Digester No.4 Rehabilitation (2019)	-	-	94,864	-	-	-	68,371	89,736	63,243	316,214
3225-000 - Facility Improvements B - DAFT and Ancillary Solids Improvement	-	-	(2)	-	-	-	(2)	(2)	(2)	(8)
Total PC 02 Solids	-	-	(113,988)	-	-	-	(82,188)	(107,794)	(75,991)	(379,961)
Total PC2 JB Latham	-	-	344,679	-	-	-	261,165	177,662	337,034	1,120,539

South Orange County Wastewater Authority

Total Large Capital Projects Cash Roll Forward for Q2 FY 2020-21

Large Capital Cash Balance as of December 31, 2020										
16	17	18	19	20	21	22	23	24		
CLB	CSC	CSJC	ETWD	EBSD	IRWD	MNWD	SMWD	SCWD	Total	
PC 05 San Juan Creek Ocean Outfall										
3601-000 Junction Structure Reinforcement Phase II (2016)	-	(7,357)	(4,905)	-	-	-	(6,867)	(19,619)	(5,520)	(44,267)
3603-000 Dilution Study (2016)	-	9,889	6,593	-	-	-	9,228	26,370	7,420	59,500
3650-000 - Junction Structure Reinforcement Construction (2017)	-	(2,134)	(1,422)	-	-	-	(1,992)	(6,178)	(1,602)	(13,327)
3605-000 - Junction Structure Reinforcement Permitting and Final Design	-	(1,410)	(940)	-	-	-	(1,317)	(3,761)	(1,057)	(8,484)
3606-000 - Junction Struction - Sleeve Insertion (2021)	-	24,930	16,620	-	-	-	23,265	66,480	18,705	150,000
Total PC5 San Juan Creek Ocean Outfall	-	23,918	15,946	-	-	-	22,318	63,293	17,946	143,422

South Orange County Wastewater Authority

Total Large Capital Projects Cash Roll Forward for Q2 FY 2020-21

Large Capital Cash Balance as of December 31, 2020									
16	17	18	19	20	21	22	23	24	
CLB	CSC	CSJC	ETWD	EBSD	IRWD	MNWD	SMWD	SCWD	Total
PC 15 Coastal Treatment Plant									
Liquids									
3504-000 - Aeration System Modification Design (2015)	(9)	-	-	(1)	-	(7)	-	(7)	(23)
3514-000 - CTP Facility Upgrade Design and Financing (2016)	(600)	-	-	(47)	-	(463)	-	(473)	(1,583)
3530-000 Aliso Sulfur Creek Confluence (2014)	(12)	-	-	(1)	-	(9)	-	(9)	(31)
3532-000 - Fire Protection (2013)	11,525	-	-	908	-	8,254	-	9,075	29,763
3534-000 - Export Sludge System (1997)	248,999	-	-	19,611	-	192,136	-	196,062	656,808
3539-000 Facility Construction Improvements - Part II (2020)	(11,174)	-	-	(880)	-	(8,621)	-	(8,795)	(29,469)
3551-000 - Add for CTP Facility Upgrade Design (2017)	52,590	-	-	4,147	-	40,577	-	41,409	138,722
3553-000 - Plant Drainage Improvements (2017)	92,004	-	-	7,251	-	70,992	-	72,444	242,691
3592-000 - Facility Improvements Project Design (2018)	16,957	-	-	1,408	-	13,034	-	13,344	44,742
3525-000 - Personnel Building reconstruction (2019)	49,581	-	-	3,904	-	38,259	-	39,040	130,784
3526-000 - Facility Improvements Project Construction - Part I (2019)	(32)	-	-	(2)	-	(24)	-	(25)	(84)
3527-000 - Vehicle Storage Building Roof (2019)	32,224	-	-	2,537	-	24,866	-	25,373	85,000
3528-000 - AWMA Road Sites West 1 and West 2 Embankment Protection	41,692	-	-	3,283	-	32,171	-	32,828	109,974
3529-000 - Aliso Creek Long Term Repair Planning	30,094	-	-	2,370	-	23,222	-	23,696	79,382
3541-000 Export Sludge System Construction (2020)	510,305	-	-	40,181	-	393,778	-	401,815	1,346,079
Total PC 15 Liquids	1,074,143	-	-	84,668	-	828,166	-	845,777	2,832,754
AWT									
3517-000 - AWT Backwash Pump Replacement (2016)	-	-	-	-	-	-	-	(405)	(405)
3518-000 - Chlorine Mixer Replacement (15AWT) (2015)	-	-	-	-	-	-	-	(7)	(7)
3519-000 - Hypochlorite Tank (AWT) (2013)	-	-	-	-	-	-	-	(0)	(0)
3532-000 - Fire Protection	-	-	-	-	-	-	-	(31,230)	(31,230)
3562-000 - Applied Water Pump System Replacement (AWT) (2017)	-	-	-	-	-	-	-	9,441	9,441
3596-000 - Applied Water VFD Pump Panel and Electrical (AWT) (2018)	-	-	-	-	-	-	-	8,594	8,594
3597-000 - MCC A Replacement Design (15) (2018)	-	-	-	-	-	-	-	55,890	55,890
3536-000 - Chlorine Contact Basin Mixer Design (AWT) (2018)	-	-	-	-	-	-	-	25,142	25,142
3537-000 - MCC A Replacement Construction (AWT) (2019)	-	-	-	-	-	-	-	(27,437)	(27,437)
3538-000 - AWT Filter Valve Upgrade Construction (AWT) (2019)	-	-	-	-	-	-	-	(64,850)	(64,850)
Total PC 15 AWT	-	-	-	-	-	-	-	(24,861)	(24,861)
Total PC 15 Coastal Treatment Plant	1,074,143	-	-	84,668	-	828,166	-	820,916	2,807,893

South Orange County Wastewater Authority

Total Large Capital Projects Cash Roll Forward for Q2 FY 2020-21

Large Capital Cash Balance as of December 31, 2020									
16	17	18	19	20	21	22	23	24	
CLB	CSC	CSJC	ETWD	EBSB	IRWD	MNWD	SMWD	SCWD	Total
PC 17 Joint Regional Wastewater Reclamation									
Liquids/AWT									
3701-000 - Secondary Electrical System Rerouting (2014)	-	-	-	-	-	(2,557,119)	-	-	(2,557,119)
3702-000 - Waste Activated Sludge VFD Control Panel (2013)	-	-	-	-	-	482,939	-	-	482,939
3707-000 - Influent Manholes 1 and 2 and Sewer Rehabilitation (2016)	-	-	-	-	-	(121)	-	-	(121)
3708-000 - Influent Junction Structure Gate Replacement (2016)	-	-	-	-	-	42	-	-	42
3712-000 - Grit Basin Drop Gate and Weir Replacement (2016)	-	-	-	-	-	(4,681)	-	-	(4,681)
3713-000 - Primary Inlet Drop Gate Replacement (2016)	-	-	-	-	-	(5)	-	-	(5)
3730-000 - Primary Gallery Upgrade (2014)	-	-	-	-	-	101,082	-	-	101,082
3733-000 AWT Backwash Pipe Relocation (2014)	-	-	-	-	-	(602)	-	-	(602)
3752-000 - AWT No.2 Upgrade Design (2017)013)	-	-	-	-	-	(382)	-	-	(382)
3753-000 Aeration Diffuser Upgrade (2020)	-	-	-	-	-	223,010	-	-	223,010
3758-000 AWT No.2 Reconstruction (2020)	-	-	-	-	-	308,491	-	-	308,491
3781-000 - Primary Scum Skimmer Replacement (2018)	-	-	-	-	-	10,888	-	-	10,888
3784-000 - Replace DAF (Mannich) Polymer System (2018)	-	-	-	-	-	712,607	-	-	712,607
3785-000 - Replace DAF Dissolution Tank System and Compressors (2018)	-	-	-	-	-	426,869	-	-	426,869
3786-000 - Primary Gallery Mechanical and Electrical Upgrade (2018)	-	-	-	-	-	1,354,657	-	-	1,354,657
3787-000 - Aeration Area Upgrade Design (2018)	-	-	-	-	-	25,051	-	-	25,051
3741-000 - Southwest Influent Sewer and MH Repair design (2019)	-	-	-	-	-	100,278	-	-	100,278
3742-000 - Aeration System Upgrade (2019)	-	-	-	-	-	345,516	-	-	345,516
3743-000 - Aeration Gate Replacement (2019)	-	-	-	-	-	187,197	-	-	187,197
3755-000 Southeast Sewer Rehabilitation (2020)	-	-	-	-	-	50,000	-	-	50,000
3756-000 Secondary Clarifier Safety Repairs (2020)	-	-	-	-	-	17,665	-	-	17,665
3757-000 Miscellaneous Safety Improvements - Liquids (2020)	-	-	-	-	-	24,178	-	-	24,178
3759-000 AWT No.2 Electrical Upgrades (2020)	-	-	-	-	-	105,364	-	-	105,364
3766-000 AWT Sodium Hypochlorite Tanks Shade (2020)	-	-	-	-	-	28,471	-	-	28,471
Total PC 17 Liquids	-	-	-	-	-	1,941,395	-	-	1,941,395

South Orange County Wastewater Authority

Total Large Capital Projects Cash Roll Forward for Q2 FY 2020-21

Large Capital Cash Balance as of December 31, 2020										
	16	17	18	19	20	21	22	23	24	
	CLB	CSC	CSJC	ETWD	EBSD	IRWD	MNWD	SMWD	SCWD	Total
Common										
3715-000 - Switchgear Upgrade (2006)	(2,964)	-	-	(4,850)	(156)	-	(36,934)	-	(2,369)	(47,273)
3717-000 - Security Fencing (2015)	86	-	-	7	4	-	(165)	-	68	0
3718-000 - Access Bridge Upgrades (2015)	650	-	-	48	29	-	(1,257)	-	521	(8)
3761-000 - External Lighting Upgrade	22,511	-	-	38,296	1,192	-	293,960	-	17,986	373,946
3763-000 - Reroute Drains on Plant Perimeter (2017)	1,687	-	-	3,073	90	-	23,898	-	1,349	30,096
3764-000 - SCADA Improvements (2017)	726	-	-	2,762	45	-	23,535	-	575	27,642
3769-000 Trailer Drain Line (2020)	(385)	-	-	(628)	(20)	-	(4,787)	-	(307)	(6,128)
3788-000 - PLC Upgrade	(3,255)	-	-	(4,470)	(168)	-	(32,677)	-	(2,603)	(43,173)
3789-000 - Switchgear Upgrade Project Completion (2018)	(920)	-	-	(1,505)	(48)	-	(11,459)	-	(735)	(14,666)
3744-000 - Admin Building Repair design (2019)	854	-	-	1,398	45	-	10,645	-	683	13,625
3745-000 - West Slope Protection Evaluation (2019)	2,261	-	-	3,700	119	-	28,176	-	1,807	36,064
3746-000 - Motor Control Center A, G, H Design (2019)	8,129	-	-	13,302	428	-	101,296	-	6,497	129,652
3747-000 - Southside Plant Manhole Reconstruction (2019)	947	-	-	1,550	50	-	11,805	-	757	15,109
3748-000 - SE electrical Manhole reconstruction (2019)	8,374	-	-	13,703	441	-	104,349	-	6,693	133,560
Total PC 17 Common	38,703	-	-	66,386	2,049	-	510,386	-	30,922	648,446
Solids										
3722-000 - Co-gen Sys Retrofit (formerly Siloxane) (2015)	36,422	-	-	66,258	1,912	-	190,941	-	29,089	324,623
3723-000 - Recoat Top of Digesters (2016)	0	-	-	(1)	(0)	-	0	-	1	(0)
3724-000 Energy Building Structural and HVAC Modifications (2015)	(1,060)	-	-	(1,928)	(56)	-	(5,556)	-	(846)	(9,445)
3726-000 Co-Generation System Retrofit Design	(374)	-	-	(681)	(20)	-	(1,961)	-	(299)	(3,335)
3770-000 - Additional Budget CoGen Upgrade (2017)	0	-	-	-	-	-	1	-	-	1
3790-000 - Solids Area Upgrade Design (2018)	3,286	-	-	5,979	173	-	17,231	-	2,625	29,294
3791-000 - Cogeneration Area Upgrade Project Completion (2018)	1	-	-	1	-	-	1	-	1	2
3749-000 - Phase I Solids Piping Upgrade (2019)	96,734	-	-	175,964	5,087	-	507,115	-	77,248	862,147
3750-000 - Dewatering room Floor Sealing and Lighting (2019)	11,676	-	-	21,239	614	-	61,210	-	9,324	104,063
3751-000 - Energy Building Roof and Breezeway (2019)	12,908	-	-	23,482	679	-	67,673	-	10,308	115,050
3754-000 - SET Piping Reconstruction (2019)	6,115	-	-	11,123	322	-	32,057	-	4,883	54,500
3771-000 - Miscellaneous Safety Improvements - Solids (2020)	8,718	-	-	15,859	459	-	45,704	-	6,962	77,702
3772-000 - Hot Water Piping Reconstruction (2020)	35,139	-	-	63,920	1,848	-	184,211	-	28,061	313,178
3773-000 - Co-Generation System Modifications (2020)	36,194	-	-	65,840	1,904	-	189,746	-	28,904	322,587
Total PC 17 Solids	245,759	-	-	447,055	12,921	-	1,288,373	-	196,260	2,190,368
Total PC 17 Joint Regional Wastewater Reclamation	284,462	-	-	513,441	14,970	-	3,740,155	-	227,181	4,780,209

South Orange County Wastewater Authority

Total Large Capital Projects Cash Roll Forward for Q2 FY 2020-21

Large Capital Cash Balance as of December 31, 2020										
16	17	18	19	20	21	22	23	24	Total	
CLB	CSC	CSJC	ETWD	EBSB	IRWD	MNWD	SMWD	SCWD		
PC 21 Effluent Transmission Main										
Reach B/C/D										
3101-000 - Trail Bridge Crossing Protection - Phase I (D) (2016)	-	-	-	162,918	-	162,916	-	-	-	325,833
3105-000 - Air Valve Replacement Design and Permitting (D) (2020)	-	-	-	29,632	-	29,632	-	-	-	59,264
3107-000 - Air Valve Replacement Construction (D) (2021)	-	-	-	19,000	-	19,000	-	-	-	38,000
Total PC21 Reach B/C/D	-	-	-	211,550	-	211,548	-	-	-	423,097
Reach E										
3104-000 - Aliso Creek Long term Repair Planning (E) (2019)	-	-	-	39,266	-	39,266	-	-	-	78,533
3106-000 - Air Valve Replacement Design and Permitting (E) (2020)	-	-	-	24,146	-	24,146	55,382	-	-	103,674
3108-000 - Air Valve Replacement Construction (E) (2021)	-	-	-	14,440	-	14,440	33,120	-	-	62,000
Total PC21 Reach E	-	-	-	77,852	-	77,852	88,502	-	-	244,207
Total PC 21 Effluent Transmission Main	-	-	-	289,402	-	289,400	88,502	-	-	667,304
PC 24 Aliso Creek Ocean Outfall										
3401-000 - Emergency Plan Development (2016)	25	-	-	37	2	36	99	-	28	226
3407-000 - Internal Seal Replacement (2018)	(47)	-	-	(70)	(3)	(68)	(189)	-	(53)	(431)
3408-000 - Sampling System Repair (2020)	9,269	-	-	13,737	658	13,280	36,952	-	10,374	84,270
3480-000 - Internal Seal Replacement (2020)	13,067	-	-	19,363	927	18,722	52,091	-	14,624	118,793
Total PC 24 Aliso Creek Ocean Outfall	22,313	-	-	33,066	1,583	31,970	88,953	-	24,972	202,858
Total Large Capital Cash	1,380,919	23,918	360,626	835,910	101,220	321,370	5,029,259	240,955	1,428,049	9,722,225

South Orange County Wastewater Authority

Total Non-Capital Cash Roll Forward Q2 FY 2020-21

Non-Capital Cash Balance as of December 31, 2020										
	16	17	18	19	20	21	22	23	24	Total
	CLB	CSC	CSJC	ETWD	EBSD	IRWD	MNWD	SMWD	SCWD	
PC 02 J B Latham										
Liquids										
4201-000 - Plant 1 Blower Building Condition Assessment (2020)	-	-	(205)	-	-	-	(154)	(115)	(192)	(666)
4202-000 - Pipeline Condition Assessment Methodology Evaluation (2020)	-	-	-	-	-	-	-	-	-	-
4203-000 - Plant Hydraulic Modeling and Flow Management Plan (2020)	-	-	36,780	-	-	-	27,585	20,689	34,481	119,534
Total Liquids	-	-	36,575	-	-	-	27,431	20,573	34,289	118,867
Common										
4001-000 - Plant Drain System Evaluation (2017)	-	-	-	-	-	-	-	-	-	-
4204-000 - Electrical Manhole Condition Assessment (2020)	-	-	6,835	-	-	-	5,028	5,139	5,494	22,496
Total Common	-	-	6,835	-	-	-	5,028	5,139	5,494	22,496
Solids										
4214-000 - Solids Management Plan (2020)	-	-	-	-	-	-	-	-	-	-
Total Solids	-	-	-	-	-	-	-	-	-	-
Total PC2 JB Latham	-	-	43,410	-	-	-	32,459	25,712	39,783	141,363
PC 05 San Juan Creek Ocean Outfall										
4601-000 - Monitoring Evaluation Options (2020)	-	11,322	7,548	-	-	-	10,566	30,192	8,495	68,124
Total PC5 SJCOO	-	11,322	7,548	-	-	-	10,566	30,192	8,495	68,124
PC 15 Coastal Treatment Plant										
Liquids										
4501-000 - Electrical Manhole/Cable Assessment (2020)	-	-	-	-	-	-	-	-	-	-
4502-000 - Building Roof Condition Assessment (2020)	9,777	-	-	-	770	-	7,544	-	7,698	25,789
4504-000 - CTP Floodplain Mapping	-	-	-	-	-	-	-	-	-	-
45211L-000 - Plant Reconfiguration Feasibility Study	26,805	-	-	-	2,110	-	20,685	-	21,107	70,707
Total Liquids	36,582	-	-	-	2,880	-	28,229	-	28,805	96,496
Total PC 15 Coastal Treatment Plant	36,582	-	-	-	2,880	-	28,229	-	28,805	96,496
PC 17 Joint Regional Wastewater Reclamation										
Common										
4703-000 - Lab Reconstruction Evaluation (2020)	4,432	-	-	7,252	233	-	55,222	-	3,542	70,680
4704-000 - Evaluate Plant and Storm Drainage (2020)	-	-	-	-	-	-	-	-	-	-
Total Common	4,432	-	-	7,252	233	-	55,222	-	3,542	70,680
Total PC 17 Joint Regional Wastewater Reclamation	4,432	-	-	7,252	233	-	55,222	-	3,542	70,680
Total Non-Capital Cash	41,013	11,322	50,958	7,252	3,113	-	126,475	55,904	80,625	376,663

South Orange County Wastewater Authority
Total Non Capital Miscellaneous Cash Roll Forward Q2 FY 2020-21

Non-Capital Miscellaneous Cash Balance as of December 31, 2020										
	16	17	18	19	20	21	22	23	24	
	CLB	CSC	CSJC	ETWD	EBSD	IRWD	MNWD	SMWD	SCWD	Total
PC 02 J B Latham										
Liquids										
5205-000(a)			7,775	-	-	-	5,832	4,374	7,289	25,270
5207-000(l)			-	-	-	-	-	-	-	-
5208-000			-	-	-	-	-	-	-	-
Total Liquids										
			7,775	-	-	-	5,832	4,374	7,289	25,270
Common										
5203-000			3,913	-	-	-	2,878	2,942	3,145	12,878
5212-000			760	-	-	-	558	572	610	2,500
Total PC 2 Common										
			4,673	-	-	-	3,436	3,514	3,755	15,378
Solids										
5204-000(a)			7,500	-	-	-	5,405	7,095	5,000	25,000
5206-000			1,500	-	-	-	1,081	1,419	1,000	5,000
5207-000(s)			-	-	-	-	-	-	-	-
Total PC 2 Solids										
			9,000	-	-	-	6,486	8,514	6,000	30,000
Total PC2 JB Latham										
			21,448	-	-	-	15,754	16,401	17,045	70,648
PC 05 San Juan Creek Ocean Outfall										
5615-000		249	166	-	-	-	232	664	187	1,498
Total PC05 SJ Creek Outfall										
		249	166	-	-	-	232	664	187	1,498
PC 15 Coastal Treatment Plant										
Liquids										
5501-000	(1,212)	-	-	-	(95)	-	(935)	-	(954)	(3,198)
5505-000	664	-	-	-	52	-	512	-	522	1,750
Total PC 15 Liquids										
	(548)	-	-	-	(43)	-	(423)	-	(432)	(1,448)
Common										
	-	-	-	-	-	-	-	-	-	-
Total PC 15 Common										
	-	-	-	-	-	-	-	-	-	-
AWT										
5504-000	-	-	-	-	-	-	-	-	-	-
Total PC 15 AWT										
	-	-	-	-	-	-	-	-	-	-
Total PC 15 Coastal Treatment Plant										
	(548)	-	-	-	(43)	-	(423)	-	(432)	(1,448)

South Orange County Wastewater Authority
Total Non Capital Miscellaneous Cash Roll Forward Q2 FY 2020-21

Non-Capital Miscellaneous Cash Balance as of December 31, 2020											
16	17	18	19	20	21	22	23	24			
CLB	CSC	CSJC	ETWD	EBSD	IRWD	MNWD	SMWD	SCWD	Total		
PC 17 Joint Regional Wastewater Reclamation											
Common											
5703-000	PC 17 Miscellaneous Engineering Common (2020)	1,974	-	-	3,230	104	-	24,597	-	1,578	31,482
5708-000	PC 17 Miscellaneous Engineering Common (2021)	126	-	-	206	6	-	1,562	-	100	2,000
Total PC 17 Common		2,100	-	-	3,436	110	-	26,159	-	1,678	33,482
Solids											
5204-000(b)	PC 17 Innovative Biosolids Solids (2020)	2,805	-	-	5,103	148	-	14,705	-	2,240	25,000
5205-000(b)	PC 17 Asset Register Pilot Project Solids (2020)	5,610	-	-	10,206	295	-	29,412	-	4,480	50,004
5704-000	Engine Permitting (2020)	561	-	-	1,021	30	-	2,941	-	448	5,000
5706-000	Update Cost Escalation Analysis (2020)	-	-	-	-	-	-	-	-	-	-
5707-000	ARC Flash Analysis Update (2020)	-	-	-	-	-	-	-	-	-	-
Total PC 17 Solids		8,976	-	-	16,329	472	-	47,058	-	7,168	80,004
AWT											
Total PC 17 AWT		-	-	-	-	-	-	-	-	-	-
Total PC 17 Joint Regional Wastewater Reclamation		11,076	-	-	19,765	582	-	73,217	-	8,846	113,486
PC 21 Effluent Transmission Main											
Reach B/C/D											
5113-000	PC 21 Miscellaneous Engineering B/C/D (2020)	-	-	-	-	-	-	-	-	-	-
5115-000	PC 21 Miscellaneous Engineering B/C/D (2021)	-	-	-	15,626	-	15,624	-	-	-	31,250
Total Reach B/C/D		-	-	-	15,626	-	15,624	-	-	-	31,250
Reach E											
5114-000	PC 21 Miscellaneous Engineering E (2020)	-	-	-	-	-	-	-	-	-	-
Total Reach E		-	-	-	-	-	-	-	-	-	-
Total PC 21 Effluent Transmission Main		-	-	-	15,626	-	15,624	-	-	-	31,250
PC 24 Aliso Creek Ocean Outfall											
5415-000	PC 24 Miscellaneous Engineering Outfall (2020)	220	-	-	326	16	315	877	-	246	2,000
Total PC 24 Aliso Creek Outfall		220	-	-	326	16	315	877	-	246	2,000
Total Non-Capital Miscellaneous Cash		10,748	249	21,614	35,717	554	15,939	89,657	17,065	25,891	217,435

**South Orange County Wastewater Authority
Small Capital Cash Roll Forward Q2 FY 2020-21**

		Small Capital Cash Balance as of December 31, 2020									
		16	17	18	19	20	21	22	23	24	
		CLB	CSC	CSJC	ETWD	EBSD	IRWD	MNWD	SMWD	SCWD	Total
PC 02 J B Latham											
Liquids											
2220-007	Replacement Check Valves	-	-	(3,268)	-	-	-	(2,451)	(1,838)	(3,064)	(10,620)
2221-001	2 ISCO Samplers (between 3 PC's)	-	-	1,076	-	-	-	808	606	1,010	3,500
2221-002	Laboratory Equipment and Probe Replacements (between 3 PC's)	-	-	(141)	-	-	-	(105)	(78)	(132)	(456)
2221-003	Building Lighting Improvements	-	-	2,308	-	-	-	1,730	1,298	2,164	7,500
2221-004	Aeration Header Noise Cover	-	-	6,924	-	-	-	5,192	3,894	6,490	22,500
2221-005	4-side RAS Pump Overhaul	-	-	2,152	-	-	-	1,616	1,212	2,020	7,000
2221-006	4-side WAS Pump Overhaul	-	-	2,770	-	-	-	2,078	1,556	2,596	9,000
2221-007	9-side WAS Pump Overhaul	-	-	2,770	-	-	-	2,076	1,558	2,596	9,000
2221-008	9-side Gas Line Replacement	-	-	297	-	-	-	223	168	278	965
2221-009	Replacement Liquids Side Bleach Tank	-	-	2,924	-	-	-	2,192	1,644	2,740	9,500
2221-010	Decant Pump Station Wet Well Lining	-	-	3,692	-	-	-	2,770	2,076	3,462	12,000
2221-011	Replacement 4-Side Grit Tank Stairs	-	-	2,000	-	-	-	1,500	1,124	1,876	6,500
2221-012	Replacement Gate Operator JBL	-	-	1,076	-	-	-	808	606	1,010	3,500
2221-013	9-side Replacement Blower Room Basement Fans	-	-	1,692	-	-	-	1,270	952	1,586	5,500
2221-014	4-Side Headworks Roll up Door Replacement	-	-	4,462	-	-	-	3,346	2,510	4,182	14,500
2221-015	Replacement Grit Auger JBL	-	-	12,308	-	-	-	9,230	6,924	11,538	40,000
2221-016	4-Side RSP Overhaul	-	-	1,182	-	-	-	886	665	1,107	3,842
2221-017	Fixed Gas Detectors - JBL Liquids	-	-	6,363	-	-	-	4,771	3,578	5,964	20,676
2221-034	Replacement of the 4-Side Grit Chamber Cover's	-	-	(2,595)	-	-	-	(1,946)	(1,460)	(2,433)	(8,433)
2220-018	Fixed Gas Detector Equipment - Liquids	-	-	(19,882)	-	-	-	(14,912)	(11,184)	(18,639)	(64,617)
Total Liquids		-	-	28,110	-	-	-	21,083	15,812	26,352	91,356
Common											
2219-041	JBL Wireless Project	-	-	27,346	-	-	-	20,114	20,559	21,981	90,000
2220-020	Two Utility Vehicles	-	-	19,750	-	-	-	14,527	14,848	15,875	65,000
2221-018	Safety Equipment JBL	-	-	3,038	-	-	-	2,234	2,284	2,444	10,000
2221-019	Replacement Gate Operator	-	-	1,064	-	-	-	782	800	854	3,500
2221-020	Stanley Access Upgrades 2021	-	-	912	-	-	-	670	686	732	3,000
2221-021	Ultrasonic Testing Equipment (between 3 PC's)	-	-	1,366	-	-	-	1,006	1,028	1,100	4,500
2221-022	Vibration Analysis Testing Equipment (between 3 PC's)	-	-	1,520	-	-	-	1,118	1,140	1,222	5,000
2221-023	JBL PLC Hardware Upgrades and Replacements 20-21	-	-	2,278	-	-	-	1,676	1,714	1,832	7,500
2221-024	JBL HP SCADA Server Switch	-	-	2,278	-	-	-	1,676	1,714	1,832	7,500
2221-025	JBL OIT Replacements 20-21	-	-	1,520	-	-	-	1,118	1,142	1,220	5,000
2221-031	Seismic bracing installation for server equipment	-	-	1,520	-	-	-	1,118	1,142	1,220	5,000
2221-032	PA System	-	-	2,734	-	-	-	2,012	2,056	2,198	9,000
2221-033	JBL Asphalt 6" Deep 1,500 S.F.	-	-	(4,940)	-	-	-	(3,633)	(3,714)	(3,970)	(16,257)
2220-018	Fixed Gas Detector Equipment - Common	-	-	(1,846)	-	-	-	(1,358)	(1,388)	(1,484)	(6,074)
Total PC 2 Common		-	-	58,541	-	-	-	43,061	44,012	47,056	192,669

South Orange County Wastewater Authority
Small Capital Cash Roll Forward Q2 FY 2020-21

		Small Capital Cash Balance as of December 31, 2020									
		16	17	18	19	20	21	22	23	24	
		CLB	CSC	CSJC	ETWD	EBSD	IRWD	MNWD	SMWD	SCWD	Total
Solids											
2221-026	Solids Buildings Door Replacement	-	-	2,850	-	-	-	2,054	2,696	1,900	9,500
2221-027	Foul Air Connection to Centrate Line	-	-	2,250	-	-	-	1,622	2,128	1,500	7,500
2221-028	Centrifuge Rebuild JBL	-	-	10,500	-	-	-	7,568	9,932	7,000	35,000
2221-029	Replacement Solids Side Bleach Tank	-	-	(2,442)	-	-	-	(1,760)	(2,309)	(1,628)	(8,139)
2221-030	Fixed Gas Detectors - JBL Solids	-	-	6,750	-	-	-	4,864	6,386	4,500	22,500
2220-018	Fixed Gas Detector Equipment - Solids	-	-	(10,908)	-	-	-	(7,862)	(10,318)	(7,272)	(36,360)
2221-036	Digester 4 Grinder Pump	-	-	(7,008)	-	-	-	(5,051)	(6,629)	(4,672)	(23,359)
Total PC 2 Solids		-	-	1,993	-	-	-	1,436	1,886	1,329	6,643
Total PC 2 JB Latham		-	-	88,644	-	-	-	65,579	61,709	74,736	290,668
PC 15 Coastal Treatment Plant											
Liquids											
2520-005	Replacment Grit Auger	(41,604)	-	-	-	(3,276)	-	(32,104)	-	(32,759)	(109,743)
2520-012	Aeration Panel Replacement	(5,385)	-	-	-	(424)	-	(4,156)	-	(4,240)	(14,206)
2520-013	Ventilation Fan Replacement	(598)	-	-	-	(47)	-	(462)	-	(471)	(1,578)
2520-014	Roll-up and Double Door Replacements	13,172	-	-	-	1,037	-	10,164	-	10,372	34,745
2221-001	2 ISCO Samplers (between 3 PC's)	1,326	-	-	-	104	-	1,024	-	1,044	3,498
2221-002	Laboratory Equipment and Probe Replacements (between 3 PC's)	(172)	-	-	-	(13)	-	(134)	-	(137)	(456)
2521-001	Replacement Nitrate Probe	132	-	-	-	11	-	101	-	105	348
2521-002	Pump/Blower Overhauls	2,844	-	-	-	224	-	2,194	-	2,238	7,500
2521-003	Replacement Grit Auger CTP	16,112	-	-	-	1,268	-	12,434	-	12,686	42,500
2521-004	Grit Pump Replacements (2)	13,268	-	-	-	1,044	-	10,240	-	10,448	35,000
2521-005	WAS Pump Control Rehabilitation	1,326	-	-	-	104	-	1,024	-	1,046	3,500
2521-006	Process Water Tank Cover Replacement	17,060	-	-	-	1,344	-	13,164	-	13,432	45,000
2521-007	Fixed Gas Detectors CTP	14,406	-	-	-	1,134	-	11,116	-	11,344	38,000
2521-008	Building Lighting Improvements CTP	9,478	-	-	-	746	-	7,314	-	7,462	25,000
2521-009	DAFT Stair and Walkway Replacement	3,222	-	-	-	254	-	2,486	-	2,538	8,500
Total PC 15 Liquids		44,585	-	-	-	3,510	-	34,406	-	35,107	117,608

**South Orange County Wastewater Authority
Small Capital Cash Roll Forward Q2 FY 2020-21**

		Small Capital Cash Balance as of December 31, 2020									
		16	17	18	19	20	21	22	23	24	
		CLB	CSC	CSJC	ETWD	EBSD	IRWD	MNWD	SMWD	SCWD	Total
Common											
2520-017	HVAC Replacements	11,374	-	-	-	896	-	8,777	-	8,956	30,003
2520-018	Stanley Security Access Expansion 2019	3,229	-	-	-	254	-	2,492	-	2,543	8,518
2520-019	Landscape renovation	8,900	-	-	-	701	-	6,868	-	7,008	23,476
2520-022	Fixed Gas Detector Equipment	7,583	-	-	-	597	-	5,852	-	5,971	20,003
2221-021	Ultrasonic Testing Equipment (between 3 PC's)	1,706	-	-	-	134	-	1,316	-	1,344	4,500
2221-022	Vibration Analysis Testing Equipment (between 3 PC's)	1,896	-	-	-	150	-	1,462	-	1,492	5,000
2521-010	Safety Equipment CTP	5,684	-	-	-	446	-	4,390	-	4,480	15,000
2521-011	Landscape Renovations CTP	7,580	-	-	-	598	-	5,850	-	5,972	20,000
2521-012	Stanley Security Access Expansion 2020 CTP	2,844	-	-	-	224	-	2,194	-	2,238	7,500
2521-013	Replacement Roll Up Door	2,844	-	-	-	224	-	2,194	-	2,238	7,500
2521-014	CTP PLC Hardware Upgrades and Replacements 20-21	2,844	-	-	-	224	-	2,194	-	2,238	7,500
2521-015	CTP HP SCADA Server Switch	2,844	-	-	-	224	-	2,194	-	2,238	7,500
2521-016	CTP OIT Replacements 20-21	1,896	-	-	-	150	-	1,462	-	1,492	5,000
2521-019	Directional antenna inst for secondary Internet to VZW	2,844	-	-	-	224	-	2,194	-	2,238	7,500
2521-020	CTP Fork-Lift	(12,090)	-	-	-	(952)	-	(9,329)	-	(9,519)	(31,890)
2521-021	CTP Shower Trailer	(25,931)	-	-	-	(2,042)	-	(20,010)	-	(20,418)	(68,400)
Total PC 15 Common		26,048	-	-	-	2,052	-	20,099	-	20,510	68,710
AWT											
2520-025	AWT Bleach Pump Pad Cover	-	-	-	-	-	-	-	-	10,000	10,000
2520-026	AWT Building Replacement Doors	-	-	-	-	-	-	-	-	(10,233)	(10,233)
2521-017	Building #19 Floor Rehabilitation	-	-	-	-	-	-	-	-	12,500	12,500
2521-018	Replacement Turbidity Meter	-	-	-	-	-	-	-	-	3,500	3,500
Total PC 15 AWT		-	-	-	-	-	-	-	-	15,767	15,767
Total PC 15 Coastal Treatment Plant		70,634	-	-	-	5,562	-	54,506	-	71,384	202,085

**South Orange County Wastewater Authority
Small Capital Cash Roll Forward Q2 FY 2020-21**

Small Capital Cash Balance as of December 31, 2020										
	16	17	18	19	20	21	22	23	24	Total
	CLB	CSC	CSJC	ETWD	EBSD	IRWD	MNWD	SMWD	SCWD	
PC 17 Joint Regional Wastewater Reclamation										
Liquids										
2720-006							9,252			9,252
2720-007							18,000			18,000
2720-008							(9,190)			(9,190)
2720-011							30,000			30,000
2720-013							29,531			29,531
2221-001							3,500			3,500
2221-002							(456)			(456)
2721-001							5,000			5,000
2721-002							18,000			18,000
2721-003							8,000			8,000
2721-004							16,240			16,240
2721-005							7,664			7,664
2721-006							6,000			6,000
2721-007							40,000			40,000
2721-008							37,500			37,500
2721-021							(21,085)			(21,085)
Total PC 17 Liquids	-	-	-	-	-	-	197,957	-	-	197,957
Common										
2221-021	282	-	-	462	14	-	3,516	-	226	4,500
2221-022	314	-	-	514	16	-	3,906	-	250	5,000
2721-009	942	-	-	1,536	52	-	11,718	-	752	15,000
2721-010	1,128	-	-	1,846	60	-	14,064	-	902	18,000
2721-011	250	-	-	410	14	-	3,126	-	200	4,000
2721-012	470	-	-	770	24	-	5,860	-	376	7,500
2721-013	470	-	-	770	24	-	5,860	-	376	7,500
2721-014	314	-	-	514	16	-	3,906	-	250	5,000
Total PC 17 Common	4,170	-	-	6,822	220	-	51,956	-	3,332	66,500

**South Orange County Wastewater Authority
Small Capital Cash Roll Forward Q2 FY 2020-21**

Small Capital Cash Balance as of December 31, 2020											
	16	17	18	19	20	21	22	23	24		
	CLB	CSC	CSJC	ETWD	EBSD	IRWD	MNWD	SMWD	SCWD	Total	
Solids											
2720-020	Recirculation Pump	(39)	-	-	(71)	(2)	-	(206)	-	(31)	(349)
2720-023	Building Lighting Upgrades	1,571	-	-	2,857	83	-	8,235	-	1,254	14,000
2721-015	Building #40 Replacement Doors	1,122	-	-	2,040	60	-	5,882	-	896	10,000
2721-016	Fixed Gas Detectors - RTP Solids	4,208	-	-	7,654	220	-	22,058	-	3,360	37,500
2721-017	Spare SET Sludge Pump	(587)	-	-	(1,069)	(31)	-	(3,079)	-	(469)	(5,236)
2721-018	Centrifuge Rebuild	2,414	-	-	4,392	128	-	12,656	-	1,928	21,518
	Total PC 17 Solids	8,689	-	-	15,803	457	-	45,545	-	6,938	77,432
AWT											
2721-019	Overhaul AWT Valve Actuator Systems	-	-	-	-	-	-	38,500	-	-	38,500
2721-020	Spare Pulsafeeder Pump	-	-	-	-	-	-	6,000	-	-	6,000
2721-023	Applied Turbidity Pump	-	-	-	-	-	-	(5,267)	-	-	(5,267)
	Total PC 17 AWT	-	-	-	-	-	-	39,233	-	-	39,233
	Total PC 17 Joint Regional Wastewater Reclamation	12,859	-	-	22,625	677	-	334,691	-	10,270	381,122
	Total Small Capital Cash	83,492	-	88,644	22,625	6,239	-	454,776	61,709	156,390	873,876

Agenda Item

4J

Board of Directors Meeting

Meeting Date: February 4, 2021

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Mary Carey, Finance Controller
SUBJECT: Fiscal Year 2019-20 Use Audit and Additional Cash Payout

Summary/Discussion

Fiscal year 2019-20 Use Audit was approved by the Board at the November 5, 2020 Board Meeting.

The Supplemental Financial Statements (including additional cash from other sources) were received and filed by the Board at the December 17, 2020 Board Meeting; however, there was no Board Action to payout the cash.

The Additional Cash will be offset against the USE Audit Due to/(From) Member Agency to minimize paperwork.

Please see Member Agency distribution in the summary below:

Fiscal Year 2019-20 Use Audit and Additional Cash Payout

	City of Laguna Beach	City of San Clemente	City of San Juan Capistrano	El Toro Water District	Emerald Bay Service District	Irvine Ranch Water District	Moulton Niguel Water District	Santa Margarita Water District	South Coast Water District	Trabuco Canyon Water	Total
Use Audit	\$357,363.05	(\$8,061.87)	\$18,558.40	(\$39,610.77)	\$9,356.81	(\$18,111.93)	\$322,075.59	(\$114,815.67)	\$310,749.38	\$7,289.42	\$844,792.41
Additional Cash	74,872.41	1,034.61	45,521.79	27,267.40	5,568.75	8,841.41	250,098.68	32,859.08	103,940.44	(8.40)	549,996.17
Total Due to /(From) Member Agency	\$432,235.46	(\$7,027.26)	\$64,080.19	(\$12,343.37)	\$14,925.56	(\$9,270.52)	\$572,174.27	(\$81,956.59)	\$414,689.82	\$7,281.02	\$1,394,788.58

Recommended Action: The Finance Committee recommends to the Board of Directors to approve payment of the Use Audit and Additional Cash from other sources to the Member Agencies as distributed in the Supplemental Financial Statements, Statement of Net Position.

Agenda Item

4K

Board of Directors Meeting

Meeting Date: February 4, 2021

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

Fiscal impact

No change.

Recommended Action: Receive and file the Operational Reports.

Monthly Operational Report

SOCWA Operational Report November, 2020

Excursion, Complaint, and Violation Events

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

Plant Wastewater Billing Characteristics

Key Parameters	CTP	RTP	JBL TP1	JBL TP2	Totals
Influent (mgd) (1)	2.03	7.88	5.88	1.12	16.91
Effluent (mgd)	2.20	3.03	5.88	0.45	11.57
Peak Flow (mgd)	7.38	19.95	11.36	5.45	44.14
Influent BOD (mg/l)	192	282	345	347	
Influent TSS (mg/l)	247	305	581	428	
Effluent BOD (mg/l)	6.4	6.2	7.9	15.8	
Effluent TSS (mg/l)	7.3	10.1	8.6	11.8	
Effluent Turbidity (NTU)	2.8	4.4	3.6	5.9	

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

Recycled Water (AWT) Operations

Key Parameters	CTP	RTP	JBL	Totals
Average Flow (mgd)	0.70	4.85		5.54
Days of Operation (days)	30	30		
Total Flow (million gallons)	20.9	145.4		166.3
Plant Irrigation (million gallons)	0.00	0.07	0.31	
AWT Time Online (%)	100.0	100.0		

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 November, 2020 (cont'd)

Biosolids Management

Biosolids Management Site	CTP	RTP	JBL	Totals
Synagro Compost (tons)		733.9	0.0	733.9
Nursery Products (tons)		426.5	748.4	1,174.9
Prima Deshecha (tons)		0.0	0.0	0.0
Other: (tons)		0.0	0.0	0.0
Total Processed (tons)		1,160.4	748.4	1,908.8

Summary of Maintenance Activities

Task Type	CTP	RTP	JBL	Totals
Preventative Maintenance	97	342	134	573
Corrective Maintenance	45	184	97	326

Site Visitors

Visitor Types	CTP	RTP	JBL	Totals
Regulatory	0	0	0	0
Member Agency	0	0	0	0
Residents	0	0	0	0
Others	6	6	6	18
Tours #/Visitors	0	0	0	0

Grit Disposal Management

Grit & Screenings	CTP	RTP	JBL	Totals
Simi Valley Landfill (tons)	12.8	22.5	24.4	59.7

Chemical and Energy Utilization

Chemical/Utility	CTP	RTP	JBL	Totals
Ferric Chloride (tons)	0.0	44.8	36.2	81.0
Utility Power Purchase (kWh)	189,009	322,600	219,021	730,630
Cogen Power (kWh)		373,532	378,076	751,608
Natural Gas (Dth)	20	1,359	1,775	3,154
Digester Gas to Engine (scfm)		4,415,875	4,594,078	9,009,953
Digester Gas to Boiler (scfm)		0		0
Digester Gas to Flares (scfm)		4,945,806	614,955	5,560,761
Digester Gas Power Savings		\$40,228		

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 November, 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	1.470	68.33%				1.47
EBSB	0.092	4.28%				0.09
SCWD	0.590	27.40%		1.812	25.87%	2.40
MNWD	0.000	0.00%	7.88	1.400	19.99%	9.28
CSJC				2.118	30.24%	2.12
SMWD				1.674	23.90%	1.67
Total	2.152	100.00%	7.88	7.005	100.00%	17.03

Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	SJCOO Meter (mgd)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB				1.47	14.88%	1.47	
EBSB				0.09	0.93%	0.09	
SCWD	2.06	15.92%		0.51	5.15%	2.57	Includes Desalters
MNWD	2.97	22.91%		3.03	30.69%	6.00	
ETWD				2.65	26.79%	2.65	Direct Outfall Only
CSJC	2.48	19.12%				2.48	Includes Desalter
SMWD	2.39	18.43%				2.39	Includes Chiquita
CSC	3.06	23.61%				3.06	Direct Outfall Only
IRWD				2.13	21.56%	2.13	Direct Outfall Only
Total	12.95	100.00%	10.65	9.88	100.00%	22.83	

SOCWA Operational Report November, 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%	2.118	30.24%	2.13	30.45%
MNWD	3.00	23.08%	1.400	22.36%	1.400	19.99%	1.40	20.00%
SCWD	3.75	28.85%	1.691	27.01%	1.812	25.87%	1.85	26.48%
SMWD	2.25	17.31%	1.100	17.57%	1.674	23.90%	1.62	23.07%
Total	13.00	100.00%	6.261	100.00%	7.005	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%	6,388	22.34%	5,957	26.86%
MNWD	8,340	21.62%	3,859	18.49%	6,231	21.79%	5,752	25.94%
SCWD	7,715	20.00%	5,181	24.83%	8,525	29.81%	5,890	26.56%
SMWD	10,946	28.38%	6,122	29.34%	7,450	26.06%	4,578	20.64%
Total	38,573	100.00%	20,868	100.00%	28,594	100.00%	22,177	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%	3.059	23.61%		
CSJC	11.08%	2.460	20.26%	2.477	19.12%	2.12	30.24%
MNWD(3)	15.51%	2.115	17.42%	2.968	22.91%	1.40	19.99%
SCWD	12.47%	1.845	15.20%	2.063	15.92%	1.81	25.87%
SMWD	44.32%	2.855	23.51%	2.388	18.43%	1.67	23.90%
Total	100.00%	12.142	3.10%	12.955	100.00%	7.00	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 November, 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	2.455	22.85%		
CSJC	2.444	22.74%	2.13	30.45%
MNWD	1.924	17.90%	1.40	20.00%
SCWD	2.066	19.22%	1.85	26.48%
SMWD	1.858	17.29%	1.62	23.07%
Total	10.747	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%	1.470	68.33%	1.632	62.81%
EBSB	0.20	2.99%	0.050	1.86%	0.092	4.28%	0.108	4.15%
SCWD	2.00	29.85%	1.019	37.90%	0.590	27.40%	0.859	33.04%
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%	2.152	100.00%	2.599	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	0.0148	0.0148	0.19%	0.0153	0.19%
EBSB	0.00044	0.006%	0.0000	0.0009	0.0009	0.01%	0.0010	0.01%
SCWD	0.00893	0.118%	0.0000	0.0059	0.0059	0.07%	0.0079	0.10%
ETWD	0.01411	0.186%	0.0000	0.0156	0.0156	0.20%	0.0160	0.20%
MNWD	7.55200	99.503%	7.8787	0.0629	7.9416	99.53%	7.8306	99.49%
Total	7.58970	100.000%	7.8787	0.1002	7.9789	100.00%	7.8709	100.00%

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

SOCWA Operational Report November, 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%	154,060	14.76%	152,059	14.86%
EBSD	295	0.59%	5,701	15.15%	9,644	0.92%	10,017	0.98%
SCWD	4,480	8.96%	180	0.48%	61,775	5.92%	78,811	7.70%
ETWD	10,200	20.41%	22,346	59.39%	162,999	15.62%	158,678	15.50%
MNWD	29,395	58.82%	3,626	9.64%	655,374	62.78%	623,883	60.96%
Total	49,975	100.00%	37,623	100.00%	1,043,853	100.00%	1,023,448	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%	1.470	14.88%	1.632	24.32%
EBSD	0.780%	0.05	0.47%	0.092	0.93%	0.108	1.61%
ETWD	16.302%	2.46	23.08%	2.647	26.79%	1.735	25.86%
IRWD	15.760%	2.48	23.26%	2.129	21.56%	1.250	18.62%
MNWD	43.848%	3.08	28.89%	3.031	30.69%	1.759	26.21%
SCWD	12.310%	0.70	6.57%	0.509	5.15%	0.227	3.38%
Total	100.000%	10.66	100.00%	9.878	100.00%	6.710	100.00%

SOCWA Operational Report November, 2020

Select Critical Equipment Repairs

JBL - PC2

Installed new Solids Scrubber Bleach Tank due to old unit age and leaking which was irreparable.
Replaced new elbow piping on Hydrogritter which was worn out.
Adjusted the 4-Side Bar Rake which had become misaligned due to corroded gears.
Adjusted Telescoping Valve travel length for Package B which had insufficient flow to RAS wet well.
Repaired asphalt in front of Building 25 which had a sinkhole forming.
Repaired Fresh Air Fan in Building 40 which had failed due to worn bearings.
Replaced leaking fittings on Solid Scrubber bleach line which had failed due to corrosive environment.

CTP - PC15

Removed and replaced a new ignition control module on the CTP tow motor due to ignition failure.
Installed new West Grit Pump which had previously both failed on high amperage and was leaking from the mechanical seal.
Finished plumbing the replacement center grit auger and prepped for commissioning.
Troubleshoot and replaced the battery for Main Solar Gate, which had been failing.
Capped the abandoned and leaking chlorine injection valve on Laguna Beach Force Main.
Replaced the above ground PVC plumbing for the Grit area hose bibs due to leaking connections.
Removed all rotor screen covers and welded on new hinges to replace broken and corroded hinges.
Removed an abandoned above ground 4-inch water line.
Replaced West Center Secondary drive unit, which had a broken ring gear.

RTP - PC17

Repalced failing aeration panels in Aeration Tank 2 and repaired mountings that had become corroded.
Reinstalled the overhauled Emergency Interstage Pumps 2 and 3 that were sent out for servicing.
Repaired the potable water line that failed in entry road due to root intrusion into the joint seals.
Removed sand out of DAFT bottom suction ports and pumped out the bottom of the tank.
Flushed TWAS system and removed all sand from TWAS pump, which was becoming clogged.
Replaced leaking flange on a bleach pump, which had become deteriorated and was starting to leak.
Fabricated replacement digester recirculation pump discharge pipes with bleed off and temperature ports to replace corroded systems.
Installed a replacement end-suction housing on Grit Pump 6, which had failed and was leaking.
Installed a replacement caustic tank for an odor scrubber.

SOCWA Operational Report November, 2020 (cont'd)

Support Services - ALL PC'S

Replaced a failed 4-Side Headworks water control solenoid at JBL.
Installed temporary power for new shower trailer at CTP.
Replaced failed Unison Gas Skid exhaust fan belt and lubed motor at JBL.
Calibrated and replaced failed DO probe 2A cap at JBL.
Replaced faulty Plant Sump Pump overload switch at JBL.
Installed the new Gas Flare flow meter at JBL requested by AQMD.
Performed upgrades of all obsolete Digester flow meters at RTP.
Assisted troubleshooting of 4-Side Grit Auger bound motor at JBL.
Replaced wiring for Turbidity Pump 2 which, was shorting out at RTP.
Installed a replacement starter for Flocculator motor at RTP.
Updated safety gas meters with new FCI flow meters for East Aeration Tanks at CTP.
Installed a replacement Nitratax probe at RTP for the failed unit.
Troubleshoot new Grit pump and made adjustments at CTP.
Troubleshoot control bucket tripping on RAS Pump 6 at RTP.
Installed new SCADA screens and performed PLC programming for H₂S gas detection meter at JBL.
Installed and tested "Man Down" safety push-button at JBL.
Troubleshoot SCADA system not communicating at RTP.
Installed new flow meters for the digesters at RTP.
Troubleshoot Cogeneration report issues with daylight savings at RTP.
Replaced failing pushrods, cylinder head, and rocker arm assembly for cylinder 6 of the GE Engine at JBL.
Installed a replacement AC equipment for Building 40 at RTP that failed.
Cleaned and resealed SCR component for Cogen at JBL.
Installed replacement pressure gauge and pressure relief valve on CEMS Steuler air tank at RTP.

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

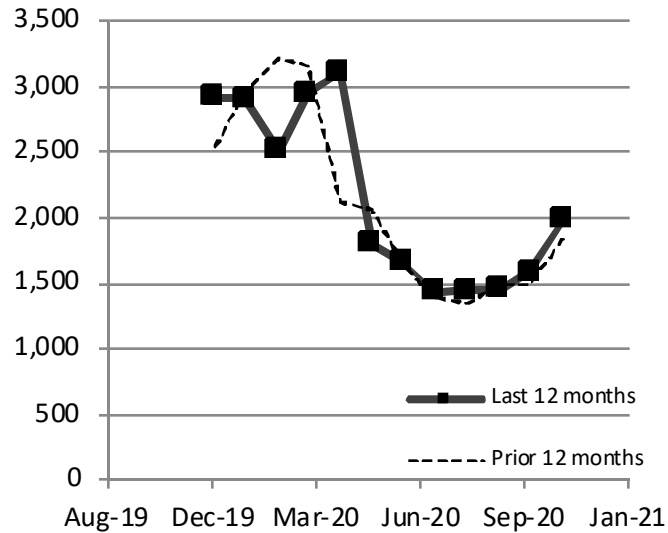
SOCWA Ocean Outfall Discharges by Agency

SOCWA Outfall Discharge Report November, 2020

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.47	14.88%	1.47
EBSD			0.09	0.93%	0.09
SCWD	2.06	15.92%	0.51	5.15%	2.57
MNWD	2.97	22.91%	3.03	30.69%	6.00
ETWD			2.65	26.79%	2.65
CSJC	2.48	19.12%			2.48
SMWD	2.39	18.43%			2.39
CSC	3.06	23.61%			3.06
IRWD			2.13	21.56%	2.13
Total	12.95	100.00%	9.88	100.00%	22.83
or Acre-Foot per year equivalent					25,573

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

Nov-20	1,985
Oct-20	1,586
Sep-20	1,461
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	2,918
Total	25,773



Beach / Ocean Monitoring Report

ALISO CREEK OCEAN OUTFALL MONITORING REPORT

November 2020

DATE	IRWD LOS ALISOS WRP				EL TORO WRP				SOCWA REGIONAL PLANT				SOCWA COASTAL PLANT				IRWD IDP	IRWD SGU	SCWD ACWRF	ACOO FLOW	Rain Fall
	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	FLOW	FLOW	MGD	inches
	MGD	mg/L	mg/L	ml/L	MGD	mg/L	mg/L	ml/L	MGD	mg/L	mg/L	ml/L	MGD	mg/L	mg/L	ml/L	MGD	MGD	MGD	MGD	
11/01/20	No Flow				3.054	15.0		<0.1	1.620	7.2	5.0	<0.1	1.948	4.2	5.0		0.406	0.603	0.125	7.756	0.00
11/02/20	No Flow				2.355	8.6	3.8	<0.1	2.22	8.9	4.0	<0.1	2.231	3.0	4.0	<0.1	0.389	0.572	0.109	7.876	0.00
11/03/20	No Flow				2.834	9.2	4.3	<0.1	1.270	11.0	4.0	<0.1	1.597	11.5	7.0	<0.1	0.390	0.376	0.150	6.617	0.00
11/04/20	No Flow				2.582	9.8	3.6	<0.1	1.260	10.7	5.0	0.1	1.530	7.9	5.0	0.1	0.389	0.334	0.149	6.244	0.01
11/05/20	No Flow				3.124	7.4	3.3	<0.1	0.720	8.5	5.0	0.1	1.662	5.1	3.0	0.1	0.344	0.332	0.127	6.309	0.00
11/06/20	No Flow				2.881	6.4	2.4	<0.1	2.110	6.7	4.0	0.1	2.345	7.0	6.0	0.1	0.414	0.331	0.140	8.221	0.00
11/07/20	No Flow				3.419	7.6		<0.1	3.590	7.2	5.0		1.838	5.1	5.0		0.416	0.644	0.134	10.041	0.09
11/08/20	No Flow				3.260	11.0		<0.1	4.780	8.2	6.0	<0.1	2.219	7.0	6.0		0.415	0.643	0.118	11.435	0.20
11/09/20	No Flow				4.476	12.2	3.7	<0.1	6.160	8.4	6.0	0.1	2.507	5.7	6.0	<0.1	0.415	0.638	0.121	14.317	0.00
11/10/20	No Flow				2.472	7.2	3.6	<0.1	4.350	7.2	5.0	0.1	2.346	5.3	5.0	<0.1	0.415	0.634	0.143	10.360	0.00
11/11/20	No Flow				3.405	7.6	3.3	<0.1	4.520	10.9	6.0	0.2	2.311	3.6	5.0	<0.1	0.599	0.630	0.128	11.593	0.00
11/12/20	No Flow				3.577	8.0	3.2	<0.1	4.520	7.5	5.0	0.4	2.299	6.1	5.0	0.1	0.809	0.626	0.167	11.998	0.00
11/13/20	No Flow				1.528	10.4	4.7	<0.1	4.310	9.1	6.0	0.3	2.309	5.9	10.0	0.4	0.000	0.622	0.113	8.882	0.00
11/14/20	No Flow				2.968	9.4		<0.1	4.230	10.5	6.0		2.080	8.1	5.0		0.000	0.620	0.145	10.043	0.01
11/15/20	No Flow				3.252	6.6		<0.1	4.450	11.0	7.0	0.1	2.334	2.4	3.0		0.000	0.618	0.116	10.770	0.00
11/16/20	No Flow				1.571	15.6	5.4	<0.1	3.820	15.4	6.0	0.2	2.361	1.4	11.0	<0.1	0.000	0.616	0.154	8.522	0.00
11/17/20	No Flow				1.496	13.0	5.0	<0.1	3.520	14.6	6.0	0.1	1.866	6.0	5.0	<0.1	0.000	0.615	0.096	7.593	0.00
11/18/20	No Flow			<0.3	2.082	7.6	3.0	<0.1	3.480	12.2	6.0	0.1	1.646	22.4	17.0	1.0	0.000	0.643	0.134	7.985	0.00
11/19/20	3.613	11.0	3.7	<0.3	3.042	10.0	3.6	<0.1	1.550	8.3	5.0	0.1	2.251	5.3	5.0	0.1	0.000	0.647	0.171	11.274	0.00
11/20/20	4.076	8.7	2.6	<0.3	1.941	10.8	4.0	<0.1	1.080	7.3	5.0	0.2	0.988	10.0	6.0	0.1	0.000	0.645	0.129	8.859	0.00
11/21/20	3.528	12.0	3.7	<0.3	2.654	9.8		<0.1	1.770	8.9	5.0		1.938	11.2	8.0		0.000	0.644	0.134	10.668	0.00
11/22/20	3.222	12.0	3.3	<0.3	3.418	13.6		<0.1	2.460	6.6	5.0	<0.1	2.051	5.0	7.0		0.000	0.643	0.130	11.924	0.00
11/23/20	3.182	14.0	3.7	<0.3	1.738	12.0	3.9	<0.1	3.990	8.4	4.0	0.1	2.204	6.5	8.0	<0.1	0.000	0.619	0.143	11.876	0.00
11/24/20	3.379	9.2	4.0	<0.3	2.751	8.0	3.1	<0.1	2.560	9.0	7.0	0.1	2.364	4.2	5.0	<0.1	0.000	0.394	0.098	11.546	0.01
11/25/20	3.672	11.0	6.2	<0.3	1.680	12.6	5.4	<0.1	2.320	8.8	10.0	<0.1	2.347	4.2	4.0	0.1	0.000	0.589	0.157	10.765	0.00
11/26/20	3.754	12.0	4.8	<0.3	3.366	7.6	3.8	<0.1	2.720	9.4	6.0	0.2	1.937	20.4	11.0	0.1	0.000	0.583	0.136	12.496	0.00
11/27/20	3.330	13.0	4.7	<0.3	1.248	13.6	6.1	<0.1	2.810	19.8	7.0	0.2	2.151	18.3	11.0	0.1	0.000	0.579	0.131	10.249	0.00
11/28/20	3.319	14.0		<0.3	2.381	11.6		<0.1	2.330	13.4	15.0		1.838	10.9	8.0		0.000	0.575	0.134	10.577	0.00
11/29/20	2.940	13.0	4.5	<0.3	2.746	13.2		<0.1	3.040	12.2	11.0	0.2	2.270	3.2	4.0		0.000	0.574	0.123	11.693	0.00
11/30/20	3.304	13.0	5.7	<0.3	2.101	24.6	7.9	<0.1	3.380	15.6	9.0	0.2	2.362	1.3	3.0	<0.1	0.000	0.570	0.142	11.859	0.00
AVG	1.377	11.9	4.3	<0.3	2.647	10.7	4.1	<0.1	3.031	10.1	6.2	<0.1	2.071	7.3	6.4	<0.2	0.180	0.572	0.133	10.012	
TOTAL	41.32				79.40				90.94				62.13				5.40	17.16	3.997	300.35	0.32

Unified Beach Monitoring

#1

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: November 2020
 REPORT DUE: January 1 2021
 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: High Tide 0933

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	11/03/20	945	<10	<10	4	None	None	None	None	Green		Clear		
S4	11/03/20	925	<10	<10	<2	None	None	None	None	Green		Clear		
S5	11/03/20	910	<10	10	6	None	None	None	None	Green		Clear		
S6	11/03/20	850	10	10	<2	None	None	None	None	Green		Clear		
WEST	11/03/20	845	60	60	36	None	None	None	None	Green		Clear		
S7	11/03/20	840	30	30	20	None	None	None	None	Green		Clear		
S8	11/03/20	825	<10	<10	2	None	None	None	None	Green	67	Clear		
S9	11/03/20	820	10	20	10	None	None	None	None	Green		Clear		
ACM1	11/03/20	806	20	<10	<2	None	None	None	None	Green		Clear	Flowing	
S10	11/03/20	755	<10	<10	<2	None	None	None	None	Green	67	Clear		
S11	11/03/20	750	20	<10	<2	None	None	None	None	Green		Clear		
S12	11/03/20	740	20	10	10	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: November 2020
 REPORT DUE: January 1, 2021
 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 0538

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	11/09/20	935	120	50	8	None	None	None	None	Green	56	Turbid		
S4	11/09/20	915	210	100	20	None	None	None	None	Green		Turbid		
S5	11/09/20	855	240	60	10	None	None	None	None	Green		Turbid		
S6	11/09/20	835	400	50	20	None	None	None	None	Green		Clear		
WEST	11/09/20	830	500	150	38	None	None	None	None	Green		Clear		
S7	11/09/20	825	600	80	32	None	None	None	None	Green		Clear		
S8	11/09/20	810	>=20,000	2,100	1,400	None	None	None	None	Green	58	Slightly Turbid		
S9	11/09/20	800	>=20,000	580	730	None	None	None	None	Green		Slightly Turbid		
ACM1	11/09/20	750	>=20,000	490	650	None	None	None	None	Green		Slightly Turbid	Flowing	
S10	11/09/20	730	400	80	10	None	None	None	None	Green		Clear		
S11	11/09/20	725	80	40	4	None	None	None	None	Green		Clear		
S12	11/09/20	715	70	30	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: November 2020
 REPORT DUE: January 1, 2021
 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 0931
 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	11/17/20	0940	<10	<10	<2	None	None	None	None	Green	69	Clear		
S4	11/17/20	0930	10	10	<2	None	None	None	None	Green		Clear		
S5	11/17/20	0910	20	<10	<2	None	None	None	None	Green		Clear		
S6	11/17/20	0855	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
WEST	11/17/20	0850	20	<10	<2	None	None	None	None	Green		Slightly Turbid		
S7	11/17/20	0845	<10	<10	2	None	None	None	None	Green		Slightly Turbid		
S8	11/17/20	0840	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S9	11/17/20	0830	40	10	10	None	None	None	None	Green		Slightly Turbid		
ACM1	11/17/20	0830	20	20	20	None	None	None	None	Green		Slightly Turbid		
S10	11/17/20	0755	20	10	<2	None	None	None	None	Green		Slightly Turbid		
S11	11/17/20	0750	<10	20	4	None	None	None	None	Green		Slightly Turbid		
S12	11/17/20	0745	10	<10	6	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-Aliso Creek Ocean Outfall

REPORT FOR: November 2020
 REPORT DUE: January 1, 2021
 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 0533

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	11/24/20	0930	10	<10	<2	None	None	None	None	Green	67	Slightly Turbid		
S4	11/24/20	0915	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S5	11/24/20	0900	<10	<10	2	None	None	None	None	Green		Slightly Turbid		
S6	11/24/20	0845	10	10	<2	None	None	None	None	Green		Slightly Turbid		
WEST	11/24/20	0840	10	10	<2	None	None	None	None	Green		Slightly Turbid		
S7	11/24/20	0835	10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S8	11/24/20	0830	<10	10	2	None	None	None	None	Green		Slightly Turbid		
S9	11/24/20	0805	<10	10	<2	None	None	None	None	Green		Slightly Turbid		
ACM1	11/24/20	0805	10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S10	11/24/20	0750	<10	<10	2	None	None	None	None	Green		Slightly Turbid		
S11	11/24/20	0745	<10	10	<2	None	None	None	None	Green		Slightly Turbid		
S12	11/24/20	0740	100	<10	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.

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: November 2020

REPORT DUE: January 1, 2021

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: High Tide 945

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	11/04/20	<2	<2	<2	802	0	0	
A-1	Mid depth	11/04/20	<10	10	<10				
A-2	Surface	11/04/20	<2	<2	<2	750	0	0	
A-2	Mid depth	11/04/20	<10	<10	<10				
A-3	Surface	11/04/20	<2	<2	<2	755	0	0	
A-3	Mid depth	11/04/20	<10	<10	<10				
A-4	Surface	11/04/20	<2	<2	<2	805	0	0	
A-4	Mid depth	11/04/20	<10	<10	<10				
A-5	Surface	11/04/20	<2	<2	<2	757	0	0	
A-5	Mid depth	11/04/20	<10	<10	<10				
B-1	Surface	11/04/20	<2	<2	<2	742	0	0	
B-1	Mid depth	11/04/20	<10	<10	<10				
B-2	Surface	11/04/20	<2	<2	<2	810	0	0	
B-2	Mid depth	11/04/20	<10	<10	<10				
N1	Surface	11/04/20	2	<2	<2	826	0	0	
N2	Surface	11/04/20	2	<2	<2	825	0	0	
N3	Surface	11/04/20	<2	<2	<2	824	0	0	
N4	Surface	11/04/20	<2	<2	<2	823	0	0	
N5	Surface	11/04/20	<2	2	<2	822	0	0	
N6	Surface	11/04/20	<2	<2	<2	820	0	0	
N7	Surface	11/04/20	<2	<2	<2	819	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 10:30am.	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

SAN JUAN CREEK OCEAN OUTFALL MONITORING REPORT

November 2020

DATE	J.B. LATHAM FACILITY				SAN CLEMENTE WRP				SMWD CHIQUITA WRP				3-A PLANT				CSJC	SCWD	SJCOO	Rain
	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	FLOW MGD	FLOW MGD	Fall inches
11/01/20	6.340	9.2	9.0		2.585				0.852				1.567	11.6	8.9		0.380	0.201	11.440	0.00
11/02/20	6.350	9.6	10.1	<0.1	2.984	12.9	7.0	<0.1	0.835	5.3	6.6	<0.1	1.651	10.8	10.2	ND	0.150	0.202	12.330	0.00
11/03/20	6.520	7.2	7.0	<0.1	2.057	14.5	8.0	<0.1	0.709	4.9	6.4	0.1	1.622	8.0	7.6	0.1	0.000	0.205	12.140	0.00
11/04/20	6.540	7.7	7.0	0.3	2.703	13.7	8.0	<0.1	0.965	4.7	3.4	<0.1	1.811	9.4	8.7	ND	0.259	0.201	11.900	0.01
11/05/20	6.620	8.8	4.5	1.4	2.411	9.0	8.0	<0.1	0.792	2.6	3.0	<0.1	1.667	9.4	8.6	ND	0.384	0.201	12.710	0.00
11/06/20	6.220	6.5	7.0	0.1	2.658	8.7	8.0	<0.1	0.599	4.9	3.1	<0.1	1.581			ND	0.384	0.205	11.880	0.00
11/07/20	7.000	6.1	7.0		3.035				1.145				1.651				0.385	0.204	12.150	0.09
11/08/20	6.360	8.8	9.0		3.846				1.836				1.618	7.4	6.2		0.385	No Flow	13.340	0.20
11/09/20	6.500	10.2	14.0	<0.1	3.480	7.1	8.0	<0.1	1.643	10.2	10.5	0.2	1.729	6.4	6.0	ND	0.384	0.001	14.160	0.00
11/10/20	6.390	6.2	7.0	<0.1	3.253	6.2	7.0	<0.1	1.154	7.1	8.4	0.1	1.578	10.0	8.8	ND	0.384	1.085	14.660	0.00
11/11/20	6.560	9.5	6.0	<0.1	3.892	5.7	4.0	<0.1	1.318	5.7	3.8	0.2	1.590	7.6	7.2	ND	0.384	1.039	14.860	0.00
11/12/20	6.240	5.3	5.6	0.2	3.439	6.0	3.0	<0.1	1.068	3.8	3.0	0.2	1.570	5.6	5.2	ND	0.383	0.405	14.370	0.00
11/13/20	6.200	8.3	8.3	0.1	3.466	9.0	7.0	<0.1	0.504	5.8	2.3	<0.1	1.588			ND	0.383	0.186	13.570	0.00
11/14/20	6.070	5.5	4.8		3.054				0.082				1.570				0.382	0.201	12.120	0.01
11/15/20	6.200	7.6	8.0		3.484				0.425				1.575	16.8	12.8		0.382	0.194	11.840	0.00
11/16/20	6.390	8.4	10.0	<0.1	3.405	6.6	7.0	<0.1	0.568	5.8	5.5	<0.1	1.566	15.8	13.2	ND	0.382	0.156	12.660	0.00
11/17/20	6.210	6.8	6.0	<0.1	3.133	6.0	7.0	<0.1	0.273	4.4	6.4	0.1	1.568	8.6	8.2	ND	0.383	0.201	12.400	0.00
11/18/20	6.170	8.6	7.0	<0.1	2.811	6.3	3.0	<0.1	1.514	5.2	3.6	0.2	0.762	14.0	12.5	ND	0.383	0.206	11.770	0.00
11/19/20	6.790	14.7	7.9	0.1	2.452	6.6	5.0	<0.1	0.887	5.6	3.3	0.3	1.589	6.0	5.7	0.1	0.381	0.202	12.830	0.00
11/20/20	6.060	12.8	10.1	0.1	2.232	6.6	4.0	<0.1	0.028	5.0	2.9	0.1	1.502			ND	0.383	0.201	12.000	0.00
11/21/20	6.940	7.9	10.6	0.1	3.093				0.000				1.554				0.383	0.205	11.010	0.00
11/22/20	6.690	8.4	12.6		3.686				0.485				1.550	7.2	6.5		0.384	0.201	11.280	0.00
11/23/20	6.610	8.4	9.4	<0.1	3.063	4.9	8.0	<0.1	1.050	2.8	7.3	<0.1	1.599	9.4	8.8	ND	0.384	0.200	12.350	0.00
11/24/20	6.770	7.4	7.0	<0.1	2.399	4.6	7.0	<0.1	0.906	5.3	6.8	<0.1	1.574	12.0	10.6	ND	0.383	0.207	13.090	0.01
11/25/20	6.950	9.2	8.2	0.1	3.512	4.7	2.0	<0.1	1.057	5.4	4.1	0.1	1.613	3.6	5.2	ND	0.384	0.199	13.090	0.00
11/26/20	6.820	7.6	6.9	0.1	3.404	3.9	3.0	<0.1	0.063	2.6	1.8	<0.1	1.590	7.6	7.2	ND	0.383	0.205	13.010	0.00
11/27/20	6.810	10.7	10.3	0.1	2.717	5.7	5.0	<0.1	0.153	1.9	3.3	<0.1	1.470			ND	0.383	0.201	11.470	0.00
11/28/20	6.480	9.9	7.6		2.886				0.020				1.552				0.383	0.201	11.280	0.00
11/29/20	6.460	9.3	9.4		3.470				0.324				1.577	11.2	7.9		0.383	0.205	11.310	0.00
11/30/20	6.550	15.5	14.2	<0.1	3.167			<0.1	0.156	8.0	6.7	<0.1	1.616	10.4	9.2	ND	0.382	0.201	12.100	0.00
AVG	6.494	8.7	8.4	<0.2	3.059	7.4	6.0	<0.1	0.714	5.1	4.9	<0.1	1.568	9.5	8.4	ND0.0	0.358	0.251	12.504	
TOTAL	194.810				91.777				21.411				47.050				10.753	7.521	375.120	0.32

REPORT FOR: November 2020
 REPORT DUE: January 1, 2021
 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 0945

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	11/04/20	900	<20	200	40	None	None	None	None	Green	62	Slightly Turbid		
S1	11/04/20	912	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S2	11/04/20	834	200	380	360	None	None	None	None	Green		Slightly Turbid		
DSB5	11/04/20	825	20	<20	32	None	None	None	None	Green		Slightly Turbid		
S3	11/04/20	914	<20	<20	4	None	None	None	None	Green		Slightly Turbid		
DSB4	11/04/20	915	<20	<20	4	None	None	None	None	Green		Slightly Turbid		
S5	11/04/20	925	<20	<20	2	None	None	None	None	Green	62	Slightly Turbid		
DSB1	11/04/20	930	<20	<20	10	None	None	None	None	Green		Slightly Turbid		
SJC1	11/04/20	902	<100	<100	60	None	None	None	None	Green		Slightly Turbid	Flowing	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: November 2020
 REPORT DUE: January 1, 2021
 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 0538

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	11/10/20	805	200	40	100	None	None	None	None	Green	61	Turbid		
S1	11/10/20	820	100	60	56	None	None	None	None	Green		Turbid		
S2	11/10/20	710	280	60	110	None	None	None	None	Green		Turbid		
DSB5	11/10/20	703	3,000	200	88	None	None	None	None	Green		Turbid	Flowing	
S3	11/10/20	824	100	<20	42	None	None	None	None	Green	61	Turbid		
DSB4	11/10/20	827	80	20	26	None	None	None	None	Green		Turbid		
S5	11/10/20	835	20	40	<2	None	None	None	None	Green		Turbid		
DSB1	11/10/20	840	40	20	<2	None	None	None	None	Green		Turbid		
C1	11/10/20	810	18,000	36,000	480	None	None	None	None	Green		Turbid	Flowing	100

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.

REPORT FOR: November 2020
 REPORT DUE: January 1, 2021
 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 1016

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	11/18/20	905	20	<20	20	None	None	None	None	Green	60	Slightly Turbid		
S1	11/18/20	930	<20	<20	6	None	None	None	None	Green		Slightly Turbid		
S2	11/18/20	855	40	100	24	None	None	None	None	Green		Slightly Turbid		
DSB5	11/18/20	835	20	<20	10	None	None	None	None	Brown		Slightly Turbid		
S3	11/18/20	935	<20	<20	10	None	None	None	None	Green		Slightly Turbid		
DSB4	11/18/20	940	40	<20	20	None	None	None	None	Green		Slightly Turbid		
S5	11/18/20	945	20	20	2	None	None	None	None	Green		Slightly Turbid		
DSB1	11/18/20	955	<20	<20	2	None	None	None	None	Green		Slightly Turbid		
C1	11/18/20	910	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: November 2020
 REPORT DUE: January 1, 2021
 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 0520

Weather: Overcast

COMMENTS:

STA#	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	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	11/23/20	912	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S1	11/23/20	920	<20	<20	2	None	None	None	None	Green		Slightly Turbid		
S2	11/23/20	833	<20	<20	6	None	None	None	None	Green		Slightly Turbid		
DSB5	11/23/20	825	<20	<20	22	None	None	None	None	Green	61	Slightly Turbid		
S3	11/23/20	925	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB4	11/23/20	926	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S5	11/23/20	935	<20	<20	<2	None	None	None	None	Green	61	Slightly Turbid		
DSB1	11/23/20	945	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
C1	11/23/20	915	<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: November 2020
 REPORT DUE: January 1, 2021
 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 0750

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	11/29/20	912	<20	<20	<2	None	None	None	None	Green	61	Slightly Turbid		
S1	11/29/20	850	20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S2	11/29/20	840	80	100	240	None	None	None	None	Green		Slightly Turbid		
DSB5	11/29/20	828	60	60	40	None	None	None	None	Green		Slightly Turbid		
S3	11/29/20	853	20	20	8	None	None	None	None	Green		Slightly Turbid		
DSB4	11/29/20	855	40	40	10	None	None	None	None	Green		Slightly Turbid		
S5	11/29/20	859	<20	<20	<2	None	None	None	None	Green	61	Slightly Turbid		
DSB1	11/29/20	904	20	20	4	None	None	None	None	Green		Slightly Turbid		
C1	11/29/20	915	<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.



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: November 2020

REPORT FREQUENCY: Monthly

REPORT DUE: January 1, 2021

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: High Tide 945

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	11/04/20	<2	<2	<2	922	0	0	0 - None
A-1	Mid depth	11/04/20	<10	<10	<10				1 - Mild
A-2	Surface	11/04/20	<2	<2	<2	926	0	0	2 - Moderate
A-2	Mid depth	11/04/20	<10	<10	<10				3 - Severe
A-3	Surface	11/04/20	<2	<2	<2	931	0	0	
A-3	Mid depth	11/04/20	<10	<10	<10				
A-4	Surface	11/04/20	<2	<2	<2	938	0	0	
A-4	Mid depth	11/04/20	<10	<10	<10				
A-5	Surface	11/04/20	<2	<2	<2	935	0	0	
A-5	Mid depth	11/04/20	70	20	10				
B-1	Surface	11/04/20	<2	<2	<2	915	0	0	
B-1	Mid depth	11/04/20	<10	<10	<10				
B-2	Surface	11/04/20	<2	<2	<2	942	0	0	
B-2	Mid depth	11/04/20	<10	<10	<10				
N1	Surface	11/04/20	<2	<2	<2	908	0	0	
N2	Surface	11/04/20	<2	<2	<2	905	0	0	
N3	Surface	11/04/20	<2	<2	<2	900	0	0	
N4	Surface	11/04/20	2	4	2	857	0	0	
N5	Surface	11/04/20	6	<2	<2	855	0	0	
N6	Surface	11/04/20	2	<2	<2	854	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.

**Compliance Summary Report
San Juan Creek Ocean Outfall 2020**

SJCOO Permit Order No. R9-2012-0012							
Agency	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
City of San Juan Capistrano	9/30/2020	TSS, Turbidity, pH, O & G, Settleable Solids, and Conductivity	Not monitored	Various	Monthly	Not Reported	\$18,000
SOCWA Combined Discharge	10/13/2020	Chronic Toxicity	101	TUc	Quarterly	500	\$3,000



**SOCWA and MEMBER AGENCY FACILITIES
SJCOO Spill / Overflow Report Log - 2020
Order No. R9-2012-0012 ~ NPDES Permit No. CA0107417**

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

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	
SOCWA - RTP	11/5/2020	Manganese	12-Month	mg/L	0.05	0.11	
SOCWA - RTP	11/5/2020	TDS	12-Month	mg/L	1000	1058	
SOCWA - CTP	11/5/2020	Manganese	12-Month	mg/L	0.05	0.07	
MNWD- 3A	Facility offline	Manganese	12-Month	mg/L	0.05	0.07	
MNWD- 3A	Facility offline	TDS	12-Month	mg/L	1000	1062	

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending: Nov 30, 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	881	842	935	1,062	1,143	984
Chloride	mg/L	375	240	208	132	292	224	253	238
Sulfate	mg/L	400	257	294	232	238	271	345	300
Sodium	mg/L	None	196	155	160	215	175	182	158
Alkalinity	mg/L	None	-	-	-	-	238	266	212
Adjusted SAR	Ratio	None	4.81	4.74	4.96	5.80	4.18	4.24	4.22
Iron	mg/L	0.3	0.022	0.023	0.130	0.007	0.17	0.490	0.131
Manganese	mg/L	0.05	0.012	0.027	0.037	0.014	0.072	0.106	0.070
MBAS	mg/L	0.5	0.04	0.16	0.16	0.29	0.00	0.10	0.10
Boron	mg/L	0.75	0.292	0.335	0.337	0.410	0.40	0.368	0.32
Fluoride	mg/L	None	0.36	0.715	0.58	0.61	0.95	0.83	0.77
Total Organic Carbon	mg/L	None	8.5	12.6	11.9	10.1	4.5	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	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	33.16		275.79
CSJC 3	Non-Domestic Well	8.63	8.63	2.75	6.73	27.41	35.89	68.38	41.91	11.45	0.00	0.01		211.79
ETWD	Region 8	26.43	52.97	29.86	59.75	168.02	177.30	218.39	229.55	195.78	167.40	95.79		1421.24
IRWD														
4	IRWD - 8	54.89	83.88	50.90	36.29	137.20	145.94	175.99	172.36	184.73	149.06	101.66		1292.91
4	IRWD - 9	26.02	46.16	24.48	23.10	77.28	84.69	108.54	104.91	106.51	81.59	59.01		742.30
SCWD	SOCWA CTP	22.75	48.17	22.67	39.78	114.47	88.37	145.97	121.00	98.12	84.99	64.19		850.48
MNWD	JRP	101.06	197.36	111.65	234.19	535.80	539.51	615.50	605.34	592.66	561.82	446.28		4541.16
	3-A Plant	41.27	0.00	0.00	0.00	38.21	141.02	117.82	155.66	121.99	144.41	0.00		760.38
5	CTP	1.02	4.83	3.49	8.29	20.47	16.45	17.79	25.63	20.92	8.15	3.45		130.48
SMWD	Oso Creek	151.09	137.88	159.15	82.28	152.12	147.36	154.09	153.65	143.09	148.71	144.00		1573.41
	Chiquita	64.63	293.17	180.82	132.12	385.36	432.44	509.56	515.91	486.42	484.49	407.33		3892.24
	Nichols	1.49	1.46	1.48	1.48	1.59	1.83	2.15	2.30	1.78	1.75	1.47		18.79
TCWD	RRWRP	50.40	45.36	38.43	37.68	54.53	50.52	51.05	50.50	41.96	49.24	49.29		518.95
TOTALS		549.70	932.55	635.63	670.78	1751.56	1896.64	2223.38	2213.69	2039.21	1919.82	1405.65		16238.61

- 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

Agenda Item

4L

Board of Directors Meeting

Meeting Date: February 4, 2021

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

A nine (9) page overview and comparison of owner use of facilities, including influent and recycled water production. The pages include ongoing calculation used by SOCWA for billing the agencies. Other items include important statistics for regulatory compliance, visits by the public to the treatment works, and other vendor interactions. The information is broken down by facility and by member agency.

2. SOCWA Ocean Outfall Discharges by Agency

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

3. Quarterly Report on Key Operational Expenses

A seven (7) page overview of monthly expenses for key operational expenses with estimated projections for the Fiscal Year. The key parameters that are being tracked are Electricity, Odor Control, Polymer, Biosolids, Maintenance expenses (not including SOCWA staff labor), small capital purchases and safety.

4. Beach Ocean Monitoring Report

5. Recycled Water Report

6. Pretreatment Report

Fiscal impact

No change.

Recommended Action: Receive and file the Operational Reports.

Monthly Operational Report

SOCWA Operational Report December, 2020

Excursion, Complaint, and Violation Event

Events	CTP	RTP	JBL	Totals
Odor	0	0	4(1)	4
Noise	0	0	0	0
Spills	0	0	0	0
Violations	0	0	0	0
Others	0	0	0	0

(1) From a single home owner that recently relocated next to JBL.

Plant Wastewater Billing Characteristics

Key Parameters	CTP	RTP	JBL TP1	JBL TP2	Totals
Influent (mgd) (1)	1.95	7.88	5.91	0.89	16.63
Effluent (mgd)	1.93	4.18	5.91	1.68	13.70
Peak Flow (mgd)	8.64	19.79	10.06	6.53	45.02
Influent BOD (mg/l)	278	252	365	358	
Influent TSS (mg/l)	464	314	810	458	
Effluent BOD (mg/l)	7.0	5.6	8.5	8.5	
Effluent TSS (mg/l)	8.6	13.3	10.8	8.0	
Effluent Turbidity (NTU)	4.0	6.0	4.5	3.2	

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

Recycled Water (AWT) Operations

Key Parameters	CTP	RTP	JBL	Totals
Average Flow (mgd)	0.90	3.70		4.60
Days of Operation (days)	31	31		
Total Flow (million gallons)	28.0	114.7		142.8
Plant Irrigation (million gallons)	0.00	0.24	0.28	
AWT Time Online (%)	100.0	74.0		

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 December, 2020 (cont'd)

Biosolids Management

Biosolids Management Site	CTP	RTP	JBL	Totals
Synagro Compost (tons)		787.7	0.0	787.7
Nursery Products (tons)		449.3	869.3	1,318.6
Prima Deshecha (tons)		0.0	33.4	33.4
Other: (tons)		0.0	0.0	0.0
Total Processed (tons)		1,237.0	902.7	2,139.7

Summary of Maintenance Activities

Task Type	CTP	RTP	JBL	Totals
Preventative Maintenance	105	266	217	588
Corrective Maintenance	52	143	114	309

Site Visitors

Visitor Types	CTP	RTP	JBL	Totals
Regulatory	0	0	0	0
Member Agency	0	0	0	0
Residents	0	0	0	0
Others	9	3	10	22
Tours #/Visitors	0	0	0	0

Grit Disposal Management

Grit & Screenings	CTP	RTP	JBL	Totals
Simi Valley Landfill (tons)	12.0	8.2	NA	20.2

Chemical and Energy Utilization

Chemical/Utility	CTP	RTP	JBL	Totals
Ferric Chloride (tons)	NA	NA	35.2	35.2
Utility Power Purchase (kWh)	187,414	62,304	245,437	495,155
Cogen Power (kWh)		551,930	414,694	966,624
Natural Gas (Dth)	10	1,422	1,423	2,855
Digester Gas to Engine (scfm)		8,589,493	5,505,095	14,094,588
Digester Gas to Boiler (scfm)		0		0
Digester Gas to Flares (scfm)		1,291,728	439,449	1,731,177
Digester Gas Power Savings		\$59,018		

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 December, 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	1.435	69.37%				1.44
EBSB	0.067	3.24%				0.07
SCWD	0.567	27.39%		1.570	23.09%	2.14
MNWD	0.000	0.00%	7.88	1.400	20.59%	9.28
CSJC				2.177	32.01%	2.18
SMWD				1.652	24.30%	1.65
Total	2.069	100.00%	7.88	6.799	100.00%	16.75

Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	SJCOO Meter (mgd)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB				1.44	11.07%	1.44	
EBSB				0.07	0.52%	0.07	
SCWD	1.77	14.25%		0.31	2.37%	2.07	Includes Desalters
MNWD	2.97	23.95%		4.18	32.23%	7.15	
ETWD				2.59	20.01%	2.59	Direct Outfall Only
CSJC	2.49	20.08%				2.49	Includes Desalter
SMWD	2.01	16.17%				2.01	Includes Chiquita
CSC	3.17	25.55%				3.17	Direct Outfall Only
IRWD				4.38	33.80%	4.38	Direct Outfall Only
Total	12.40	100.00%	11.21	12.97	100.00%	25.37	

SOCWA Operational Report December, 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%	2.177	32.01%	2.14	30.71%
MNWD	3.00	23.08%	1.400	22.36%	1.400	20.59%	1.40	20.09%
SCWD	3.75	28.85%	1.691	27.01%	1.570	23.09%	1.81	25.93%
SMWD	2.25	17.31%	1.100	17.57%	1.652	24.30%	1.62	23.27%
Total	13.00	100.00%	6.261	100.00%	6.799	100.00%	6.97	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%	6,658	22.95%	5,968	26.70%
MNWD	8,340	21.62%	3,859	18.49%	7,807	26.92%	5,784	25.88%
SCWD	7,715	20.00%	5,181	24.83%	5,326	18.36%	5,885	26.33%
SMWD	10,946	28.38%	6,122	29.34%	9,215	31.77%	4,713	21.09%
Total	38,573	100.00%	20,868	100.00%	29,006	100.00%	22,349	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%	3.169	25.55%		
CSJC	11.08%	2.460	20.26%	2.490	20.08%	2.18	32.01%
MNWD(3)	15.51%	2.115	17.42%	2.971	23.95%	1.40	20.59%
SCWD	12.47%	1.845	15.20%	1.768	14.25%	1.57	23.09%
SMWD	44.32%	2.855	23.51%	2.006	16.17%	1.65	24.30%
Total	100.00%	12.142	3.10%	12.404	100.00%	6.80	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 December, 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	2.576	23.36%		
CSJC	2.452	22.24%	2.14	30.71%
MNWD	2.100	19.05%	1.40	20.09%
SCWD	2.016	18.28%	1.81	25.93%
SMWD	1.883	17.08%	1.62	23.27%
Total	11.027	100.00%	6.97	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%	1.435	69.37%	1.599	63.72%
EBSD	0.20	2.99%	0.050	1.86%	0.067	3.24%	0.101	4.03%
SCWD	2.00	29.85%	1.019	37.90%	0.567	27.39%	0.809	32.25%
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%	2.069	100.00%	2.510	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	0.0154	0.0154	0.19%	0.0154	0.19%
EBSD	0.00044	0.006%	0.0000	0.0007	0.0007	0.01%	0.0010	0.01%
SCWD	0.00893	0.118%	0.0000	0.0061	0.0061	0.08%	0.0076	0.10%
ETWD	0.01411	0.186%	0.0000	0.0149	0.0149	0.19%	0.0158	0.20%
MNWD	7.55200	99.503%	7.8803	0.0639	7.9442	99.54%	7.8497	99.50%
Total	7.58970	100.000%	7.8803	0.1009	7.9812	100.00%	7.8895	100.00%

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

SOCWA Operational Report December, 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%	176,470	15.24%	156,128	14.93%
EBSD	295	0.59%	5,701	15.15%	8,237	0.71%	9,721	0.93%
SCWD	4,480	8.96%	180	0.48%	69,684	6.02%	77,290	7.39%
ETWD	10,200	20.41%	22,346	59.39%	170,529	14.73%	160,653	15.36%
MNWD	29,395	58.82%	3,626	9.64%	732,687	63.29%	642,017	61.39%
Total	49,975	100.00%	37,623	100.00%	1,157,607	100.00%	1,045,808	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%	1.435	11.07%	1.599	21.63%
EBSD	0.780%	0.05	0.47%	0.067	0.52%	0.101	1.37%
ETWD	16.302%	2.46	23.08%	2.595	20.01%	1.880	25.43%
IRWD	15.760%	2.48	23.26%	4.384	33.80%	1.405	19.01%
MNWD	43.848%	3.08	28.89%	4.180	32.23%	2.167	29.31%
SCWD	12.310%	0.70	6.57%	0.307	2.37%	0.240	3.25%
Total	100.000%	10.66	100.00%	12.968	100.00%	7.392	100.00%

SOCWA Operational Report December, 2020

Select Critical Equipment Repairs

JBL - PC2

Adjusted depth range for 4-Side Telescoping Valves in order to compensate for the loss of flow in the new equipment.

Installed Aeration Tank 1 Sump Pump piping, which had become dilapidated from corrosion.

Replaced Centrifuge 2 bearing, which had become worn and was causing vibration issues.

Repaired leak to the emergency generator, which occurred due to failing gaskets.

Dismantled flights and chain for Primary Tank 1 in order to prepare for the upcoming digester cleaning project.

Shortened new valve handles on Secondary Telescoping Valves in order to prevent use-related damage.

CTP - PC15

Fabricated and installed replacement East Primary Influent and Grit overflow channel agitation airline that was failing.

Cleaned out East Primary Tank hoppers and made adjustments to drains leading to DPS.

Disassembled new WEMCO Grit Pump for changing out the slurry mechanical seal, which was causing an increased electrical draw.

Installed a replacement Scrubber Stage 2 and 3 Vanton Pump, which had been past useful life.

Prepared location for light pole installation, including removal of grouted foundation.

Plumbed replacement connections for Center Grit Auger installation and service testing.

Troubleshoot charging issues for batteries at Solar Gate and updated setup to increased voltage in series.

RTP - PC17

Replaced primary clutch packs with stainless steel models due to old cast iron parts failing.

Removed and replaced SET Pumps 5 and 6 for a full rebuild as scheduled.

Completed 8k hour service tuneup for Centrifuge 2.

Installed new ferric pump due to worn and damaged gearbox leaving pump inoperable.

Replaced sludge loading bay slide gate ram due to corrosion caused an internal leak.

Reinstalled the overhauled Interstage Pump 3.

Support Services - ALL PC'S

Troubleshoot, setup, and repaired VAPEX output card while inputting additional points in SCADA.

Added a new hot water trend program at RTP to track digester heating issues.

Replaced a faulty digester flow meters at RTP.

Repaired non-functioning electrical receptacles on primary deck at JBL.

Adjusted faulty limit switches for primary sludge valve at CTP.

Troubleshoot erratic readings on Digester 2 flow meters at RTP.

Troubleshoot Applied Turbidity flow meter at RTP.

Replaced failing SET Pump Motors 5 and 6 at RTP.

Installed on a new motor the replacement Grit Auger at CTP.

Wired new motor for East Basin Chloride Analyzer at CTP.

Extended conduit for new Vanton Pump installation at Scrubber at CTP.

Installed new roll up door for Headworks at RTP which had become dilapidated.

SOCWA Operational Report December, 2020

Select Critical Equipment Repairs

Replaced failed MH lighting fixtures with an LED application for Blower Room at RTP.
Removed and replaced the failed bollard light with a new light pole at RTP.
Added a new card reader for the entrance door at RTP.
Upgraded the GE Di.ane CPU for improved emissions monitoring and controls at JBL.
Repaired the failed chiller, which was continuously tripping off at RTP.

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

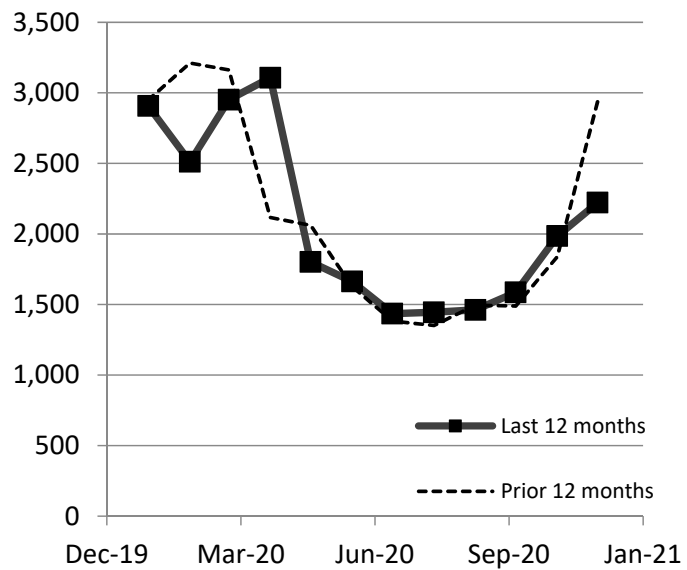
SOCWA Ocean Outfall Discharges by Agency

SOCWA Outfall Discharge Report December, 2020

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.44	11.07%	1.44
EBSD			0.07	0.52%	0.07
SCWD	1.77	14.25%	0.31	2.37%	2.07
MNWD	2.97	23.95%	4.18	32.23%	7.15
ETWD			2.59	20.01%	2.59
CSJC	2.49	20.08%			2.49
SMWD	2.01	16.17%			2.01
CSC	3.17	25.55%			3.17
IRWD			4.38	33.80%	4.38
Total	12.40	100.00%	12.97	100.00%	25.37
or Acre-Feet per year equivalent					28,416

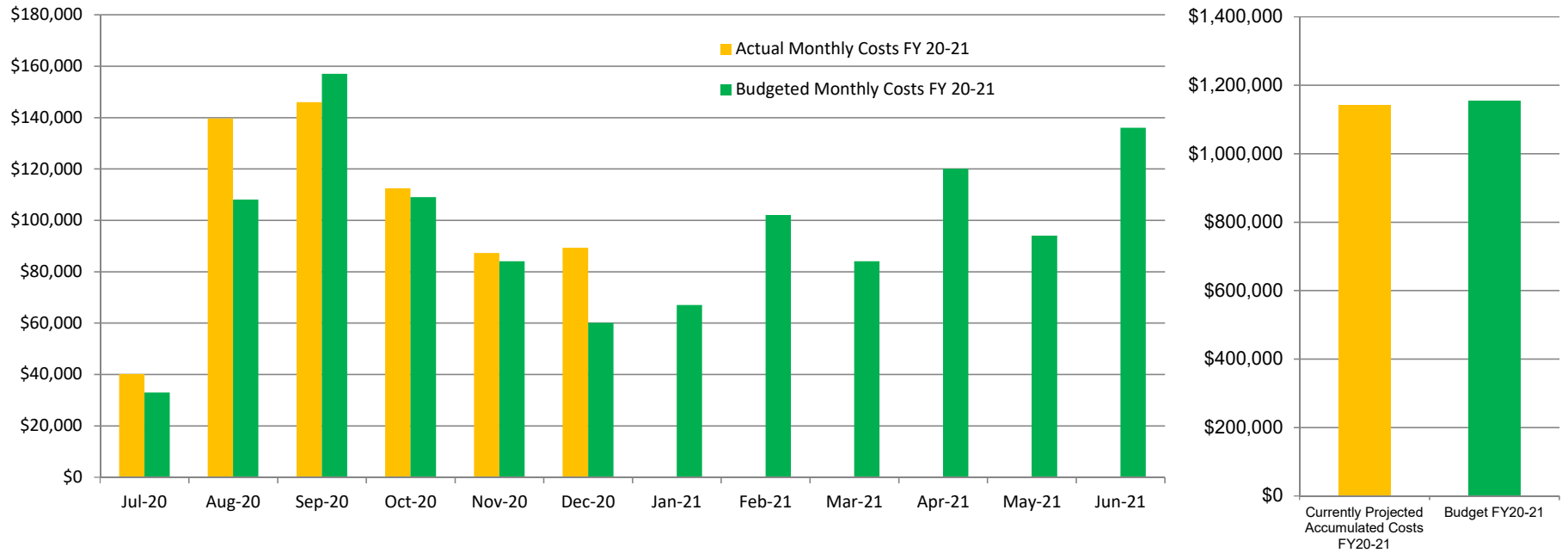
12-Month Running Total Discharge to Ocean Outfalls (AF)

Dec-20	2,221
Nov-20	1,985
Oct-20	1,586
Sep-20	1,461
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	2,906
Total	25,072



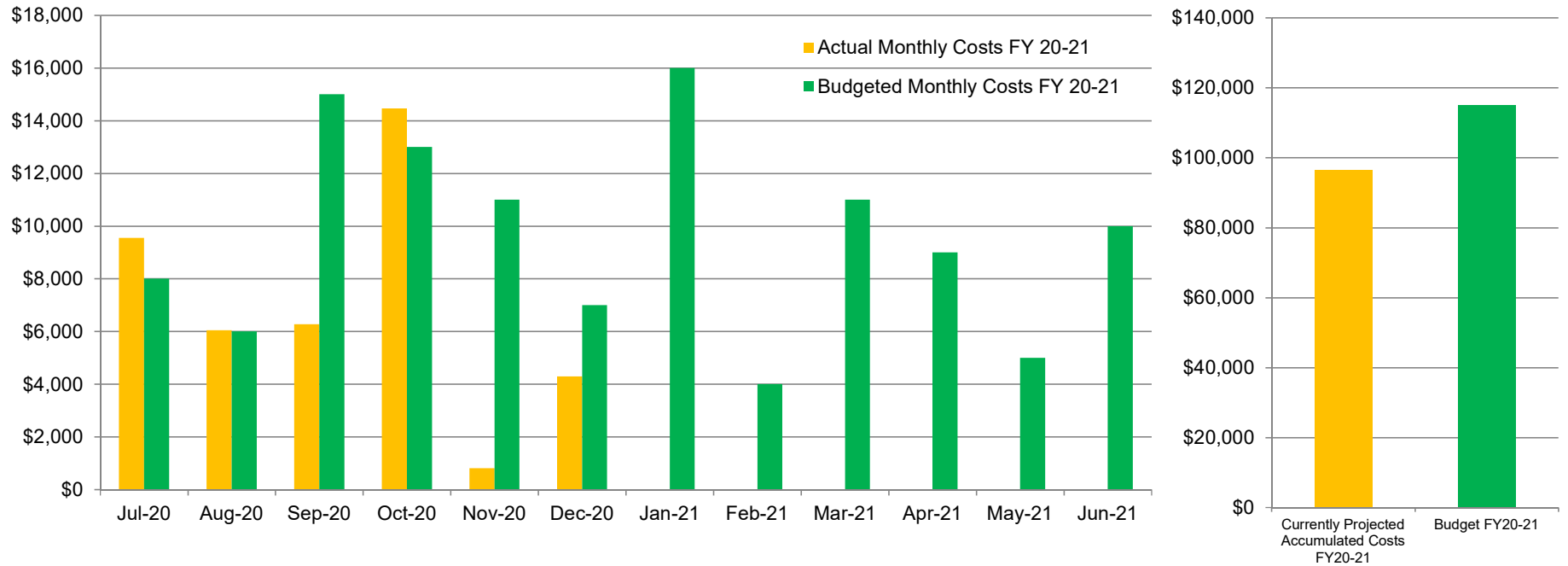
Quarterly Report on Key Operational Expenses

Electricity (5002) Costs



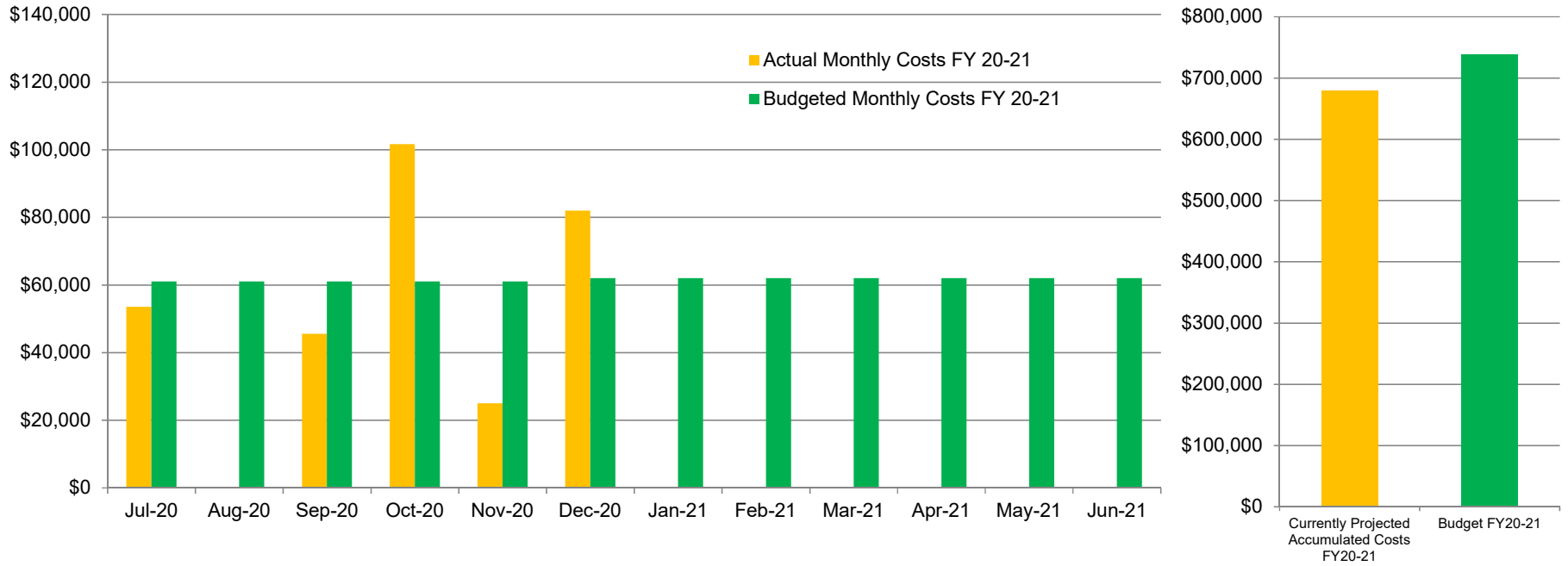
	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Currently Projected Accumulated Costs FY20-21	\$1,141,707
Actual Monthly Costs FY 20-21	\$40,080	\$139,624	\$145,958	\$112,470	\$87,244	\$89,330							Budget FY20-21	\$1,154,000
Budgeted Monthly Costs FY 20-21	\$33,000	\$108,000	\$157,000	\$109,000	\$84,000	\$60,000	\$67,000	\$102,000	\$84,000	\$120,000	\$94,000	\$136,000	Currently Projected Under(+)/Over (-) Budget	\$12,293

Odor Control (5009) Costs



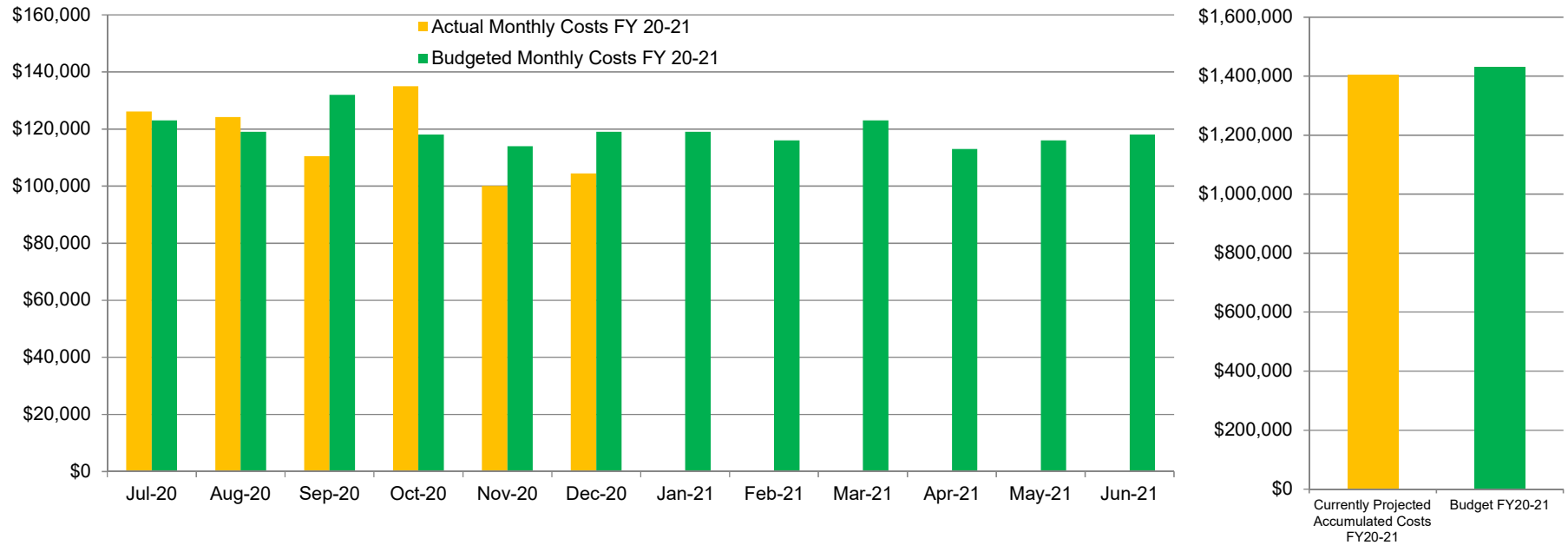
	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Currently Projected Accumulated Costs FY20-21	
Actual Monthly Costs FY 20-21	\$9,547	\$6,050	\$6,277	\$14,464	\$813	\$4,289							Currently Projected Accumulated Costs FY20-21	\$96,439
Budgeted Monthly Costs FY 20-21	\$8,000	\$6,000	\$15,000	\$13,000	\$11,000	\$7,000	\$16,000	\$4,000	\$11,000	\$9,000	\$5,000	\$10,000	Budget FY20-21	\$115,000
													Currently Projected Under(+)/Over (-) Budget	\$18,561

Polymer (5007) Costs



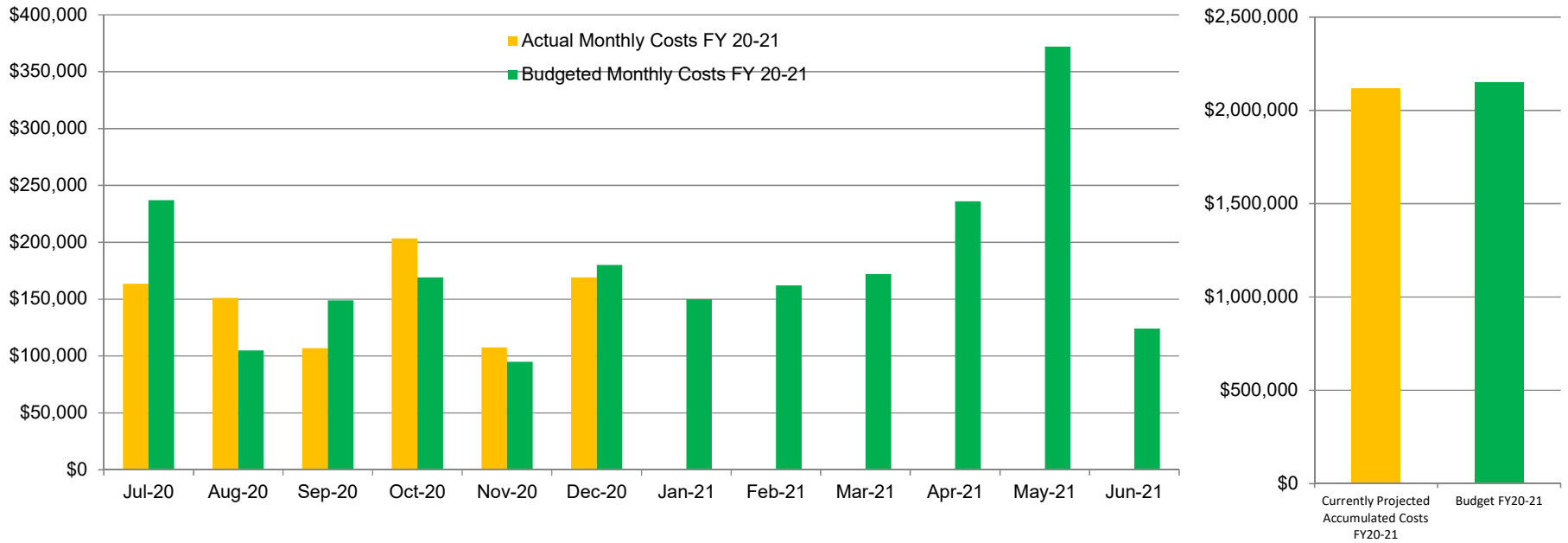
	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Currently Projected Accumulated Costs FY20-21	Budget FY20-21
Actual Monthly Costs FY 20-21	\$53,535	\$0	\$45,567	\$101,611	\$25,000	\$82,004							\$679,718	\$739,000
Budgeted Monthly Costs FY 20-21	\$61,000	\$61,000	\$61,000	\$61,000	\$61,000	\$62,000	\$62,000	\$62,000	\$62,000	\$62,000	\$62,000	\$62,000	Currently Projected Under(+)/Over (-) Budget	\$59,282

Biosolids (5049) Costs



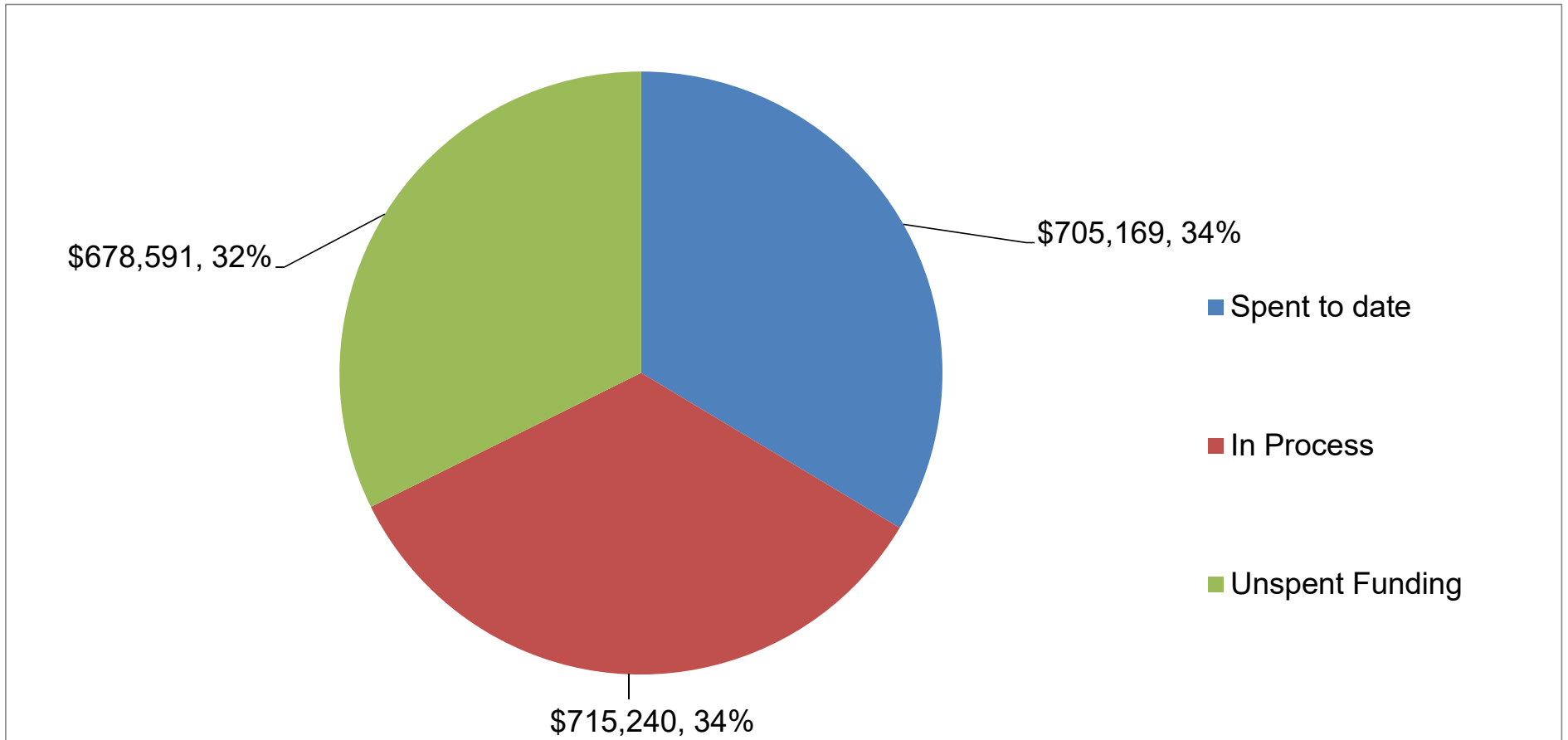
	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Currently Projected Accumulated Costs FY20-21	Budget FY20-21
Actual Monthly Costs FY 20-21	\$126,075	\$124,148	\$110,440	\$135,017	\$100,000	\$104,423							\$1,405,103	\$1,430,000
Budgeted Monthly Costs FY 20-21	\$123,000	\$119,000	\$132,000	\$118,000	\$114,000	\$119,000	\$119,000	\$116,000	\$123,000	\$113,000	\$116,000	\$118,000	Currently Projected Under(+)/Over (-) Budget	\$24,897

Maintenance Repair (5056 to 5060) Costs



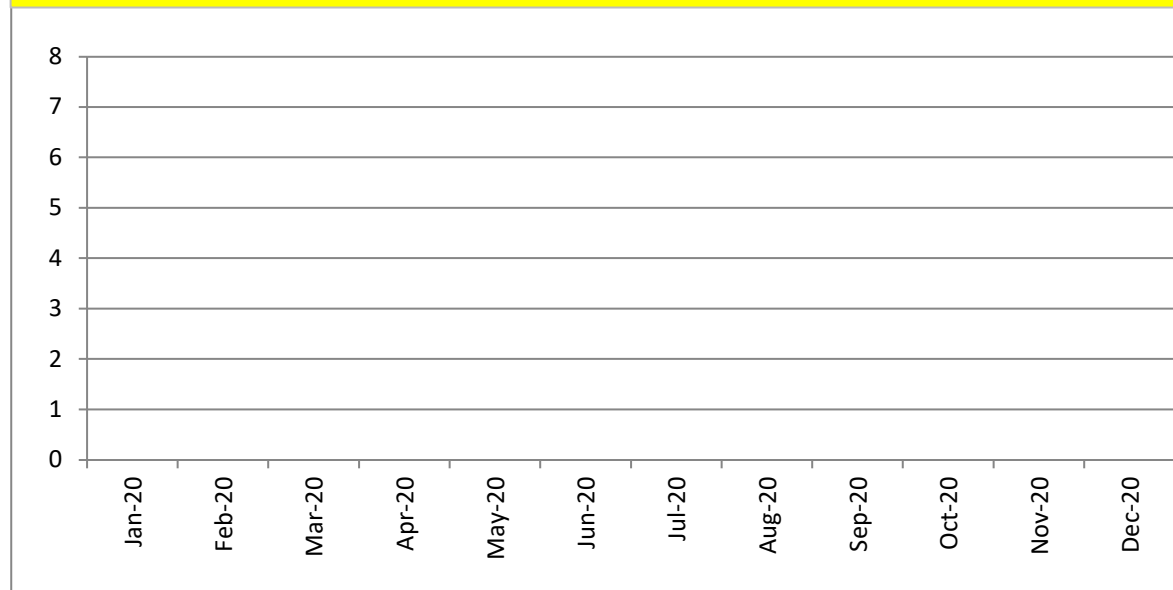
	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Currently Projected Accumulated Costs FY20-21	\$2,117,720
Actual Monthly Costs FY 20-21	\$163,537	\$151,197	\$106,929	\$203,395	\$107,548	\$169,114							Budget FY20-21	\$2,151,000
Budgeted Monthly Costs FY 20-21	\$237,000	\$105,000	\$149,000	\$169,000	\$95,000	\$180,000	\$150,000	\$162,000	\$172,000	\$236,000	\$372,000	\$124,000	Currently Projected Under(+)/Over (-) Budget	\$33,280

FY20-21 Small Internal Capital Costs



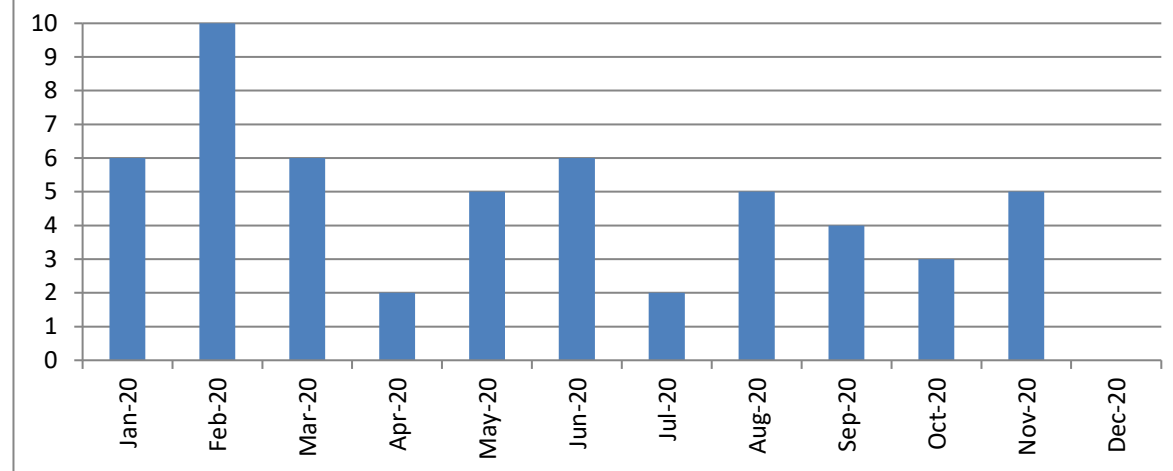
SOCWA SAFETY UPDATE - JANUARY 6, 2021

OSHA RECORDABLE INJURIES



	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
OSHA RECORDABLE INJURIES	0	0	0	0	0	0	0	0	0	0	0	0

NEAR MISS REPORTS



	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
NEAR MISS REPORTS	6	10	6	2	5	6	2	5	4	3	5	0

SAFETY TRAINING

TRAINING TOPIC	ATTENDANCE
October/November '20 - Forklift Training and Additional ICS Training	95%
September '20 - CPR/First Aid/AED Training (Refresher and Initial)	95% (all SOCWA employees)
August '20 - Annual Audiometric Hearing Testing and Training	100%
July '20 - Annual Fire Extinguisher Use Training (Additional training dates pending)	75%
June '20 - Annual 8-HR HAZWOPER Refresher Training (Covid-19 ECP Compliant)	95%
May '20 - Make-Up Heat Illness Training (Completed remotely due to Covid-19)	95% (including make-up training)
Apr '20 - Annual Bloodborne Pathogen Training (Completed remotely due to Covid-19)	95% (all SOCWA employees)
Mar '20 - Annual Heat Illness Training	95% (including make-up training)
Feb '20 - Active Shooter/Workplace Violence Training	95%
October '19 - Fall Protection Training, Additional ICS Training, and Spill Training	90%
September '19 - Wildland Fire Training and Additional CPR/First Aid/AED Training	90%
Aug '19 - Initial Confined Space Entry Rescue and Additional Active Shooter Training	95%
July '19 - Annual Fire Extinguisher Training	95%
June '19 - Annual Confined Space Entry Rescue Refresher Training	95%
April '19 - Annual HAZWOPER Refresher Training (8-Hour)	95%
March '19 - Annual Respirator Fit Testing and PPE Use Training	100%
Feb '19 - Annual Bloodborne Pathogens Training and Additional Arc Flash Training	95%
December '18 - Annual Defensive Driving/Distracted Driving/DUIs Training (w/ CHP)	100%
October '18 - Crane Safety	100%
September '18 - Silica Safety Training	100%
August '18 - Fire Awareness Safety for Field Personnel and Lockout/Tagout Training	100%
March '18 - CPR/First Aid/AED Training	100% (all SOCWA employees)
January '18 - Respiratory PPE Training/Fit Testing and Additional ICS Training	90%
October '17 - Forklift Training / Certification	100%
September '17 - Active Shooter/Workplace Violence Training	100%
July/August '17 - Spill Response Training (hands on training)	100%
May '17 - Safety Culture Training	100%
March '17 - Fall Protection Training and CPR, First Aid, AED Training	100%
January '17 - Lockout/Tagout Training and Confined Space Rescue Practice/Training	100%
October '16 - Confined Space Awareness/Entry Rescue Training and Forklift Training	100%
May '16 - Entry Level NIMS/ICS Training and Heat Illness Training	100%
February '16 - Biomechanics/Ergonomics Training and Bloodborne Pathogen Training	100%
Oct '15 and Jan '16 - Initial Confined Space Entry Rescue (3-day trainings)	100%
November '15 - Annual Hearing Testing and Laboratory Safety Training	100%
September '15 - Pre-Storm Workshop, Arc Flash Training, and Forklift Training	100%
August '15 - Fire Prevention for Water Utility Field Staff and Disaster Cost Recovery Training	100%
July '15 - Initiate additional NIMS/ICS Training and Water and Power Resiliency Workshop	Ongoing
June '15 - Initial Confined Space Awareness and Non-Entry Rescue Training	100%

Beach / Ocean Monitoring Report

ALISO CREEK OCEAN OUTFALL MONITORING REPORT

December 2020

DATE	IRWD LOS ALISOS WRP				EL TORO WRP				SOCWA REGIONAL PLANT				SOCWA COASTAL PLANT				IRWD IDP	IRWD SGU	SCWD ACWRF	ACOO FLOW	Rain Fall
	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	FLOW MGD	FLOW MGD	MGD	inches
12/01/20	3.727	14.0	6.4	<0.3	1.870	13.0	5.4	<0.1	2.220	13.8	5.0	<0.1	1.500	9.8	7.0	<0.1		0.613	0.121	10.051	0.00
12/02/20	3.580	13.0	7.6	<0.3	1.332	15.6	7.1	<0.1	3.21	11.0	6.0	0.4	2.109	3.3	4.0	0.4		0.606	0.147	10.984	0.00
12/03/20	3.370	10.0	7.6	<0.3	1.987	13.8	6.4	<0.1	2.020	13.3	5.0	0.3	1.225	13.8	9.0	0.1		0.597	0.119	9.318	0.00
12/04/20	3.465	11.0	9.1	<0.3	2.082	17.6	8.0	<0.1	1.170	13.4	6.0	0.2	2.180	39.4	25.0	0.1		0.595	0.148	9.640	0.00
12/05/20	3.216	9.4		<0.3	2.829	32.8		0.1	1.190	10.4	5.0		1.275	8.7	7.0			0.594	0.127	9.231	0.00
12/06/20	3.179	15.0	7.4	<0.3	2.862	23.7		0.2	2.480	9.6	6.0	0.1	2.048	4.4	7.0			0.581	0.119	11.269	0.00
12/07/20	3.309	15.0	7.8	<0.3	2.335	20.3	7.3	0.2	4.010	13.4	4.0	<0.1	1.766	7.8	10.0	<0.1		0.579	0.120	12.119	0.00
12/08/20	3.459	11.0	7.2	<0.3	1.769	18.4	8.0	0.1	1.420	6.4	3.0	0.1	2.230	3.4	7.0	<0.1		0.435	0.144	9.457	0.00
12/09/20	3.375	12.0	7.8	<0.3	2.471	27.3	11.6	0.1	2.320	10.4	3.0	<0.1	1.242	7.7	10.0	<0.1		0.418	0.133	9.959	0.00
12/10/20	3.229	10.0	7.9	<0.3	2.241	11.8	6.1	0.4	2.200	10.1	4.0	0.1	1.615	5.7	6.0	<0.1		0.413	0.147	9.845	0.00
12/11/20	3.267	13.0	8.9	<0.3	2.848	9.0	3.6	<0.1	1.640	9.8	4.0	0.1	1.780	10.7	7.0	0.1		0.409	0.135	10.079	0.00
12/12/20	3.322	5.8		<0.3	2.643	13.6		<0.1	1.650	13.1	7.0		2.512	9.1	8.0			0.406	0.140	10.673	0.00
12/13/20	3.321	15.0	8.0	<0.3	3.301	11.8		<0.1	4.210	11.8	4.0	0.2	1.709	8.8	8.0			0.403	0.130	13.074	0.01
12/14/20	3.452	15.0	6.3	<0.3	3.014	9.4	3.1	<0.1	3.570	11.2	3.0	0.1	2.248	8.7	7.0	<0.1		0.388	0.087	12.759	0.02
12/15/20	3.577	14.0	5.0	<0.3	2.207	8.0	3.1	<0.1	3.310	12.6	5.0	0.4	1.630	6.3	7.0	<0.1		0.537	0.112	11.373	0.00
12/16/20	3.290	13.0	5.2	<0.3	2.229	11.4	4.4	<0.1	2.740	15.7	3.0	0.4	2.003	6.7	6.0	0.1		0.590	0.032	10.884	0.00
12/17/20	3.321	12.0	5.6	<0.3	2.764	9.4	3.6	<0.1	4.530	9.7	3.0	0.3	1.827	9.8	7.0	0.2		0.587	0.007	13.036	0.02
12/18/20	3.396	14.0	7.5	<0.3	2.634	9.8	3.7	<0.1	2.440	16.2	5.0	0.1	2.376	6.9	6.0	0.1		0.584	0.120	11.550	0.01
12/19/20	3.465	14.0		<0.3	2.326	15.0		<0.1	4.930	16.2	17.0		1.594	16.1	8.0			0.582	0.134	13.031	0.00
12/20/20	3.467	16.0	8.5	<0.3	2.918	11.8		0.1	4.270	23.4	11.0	0.1	2.108	4.0	4.0			0.581	0.107	13.451	0.00
12/21/20	3.467	20.0	9.4	<0.3	2.733	13.0	4.8	0.1	5.940	14.0	5.0	0.2	2.154	5.9	5.0	<0.1		0.580	0.103	14.977	0.00
12/22/20	3.288	19.0	9.2	<0.3	2.311	15.0	5.8	0.1	7.550	23.2	5.0	0.1	1.790	9.8	7.0	0.8		0.579	0.105	15.623	0.00
12/23/20	3.185	20.0	8.5	<0.3	2.782	14.8	6.1	0.1	7.770	11.1	6.0	0.4	1.050	8.9	4.0	<0.1		0.578	0.160	15.525	0.00
12/24/20	3.180	21.0	7.9	<0.3	2.616	11.4	3.8	<0.1	5.060	11.0	5.0	0.2	1.638	1.7	3.9	0.2	0.297	0.575	0.128	13.494	0.00
12/25/20	3.447	19.0		<0.3	2.635	9.2	4.5	<0.1	8.670	12.4	6.0	0.3	1.967	1.4	2.0	0.1	0.379	0.576	0.139	17.813	0.01
12/26/20	3.465	20.0		<0.3	2.712	8.8		<0.1	7.390	14.7	9.0		1.747	10.9	7.0		0.379	0.576	0.140	16.409	0.00
12/27/20	3.337	21.0	3.6	<0.3	2.980	13.0		0.1	7.750	13.2	9.0	0.4	1.218	3.2	3.0		0.383	0.574	0.133	16.375	0.00
12/28/20	3.456	22.0	12.0	<0.3	3.632	17.8	6.6	0.1	7.900	17.4	5.0	0.4	1.807	4.0	4.0	<0.1	0.384	0.574	0.134	17.887	0.49
12/29/20	3.642	22.0	13.0	<0.3	2.820	11.4	3.9	0.2	6.310	15.0	5.0	0.2	1.516	10.0	5.0	0.1	0.392	0.573	0.104	15.357	0.00
12/30/20	3.574	23.0	14.0	<0.3	3.294	16.6	5.7	<0.1	4.790	13.5	5.0	0.4	2.092	7.6	6.0	0.1	0.392	0.571	0.166	14.879	0.00
12/31/20	3.379	25.0	14.0	<0.3	3.263	12.4	5.6	0.1	4.920	13.9	5.0	0.2	2.129	11.3	10.0	<0.1	0.392	0.571	0.126	14.780	0.00
AVG	3.394	15.6	8.3	<0.3	2.595	14.4	5.6	<0.1	4.180	13.3	5.6	<0.2	1.809	8.6	7.0	<0.2	0.375	0.543	0.122	12.739	
TOTAL	105.21				80.44				129.58				56.09				3.00	16.83	3.767	394.90	0.56

Unified Beach Monitoring

#1

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: December 2020
 REPORT DUE: February 1 2021
 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: High Tide 0859

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	12/02/20	0930	10	<10	<2	None	None	None	None	Green	64	Slightly Turbid		
S4	12/02/20	0910	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S5	12/02/20	0905	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S6	12/02/20	0845	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
WEST	12/02/20	0840	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S7	12/02/20	0835	<10	<10	2	None	None	None	None	Green		Slightly Turbid		
S8	12/02/20	0840	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S9	12/02/20	0820	20	20	4	None	None	None	None	Green		Turbid		
ACM1	12/02/20	0815	30	10	2	None	None	None	None	Green		Turbid		
S10	12/02/20	0755	<10	<10	4	None	None	None	None	Green		Turbid		
S11	12/02/20	0750	<10	<10	10	None	None	None	None	Green		Turbid		
S12	12/02/20	0745	10	<10	<2	None	None	None	None	Green		Turbid		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: December 2020
 REPORT DUE: February 1, 2021
 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 0435

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	12/09/20	0935	10	<10	2	None	None	None	None	Green	67	Slightly Turbid		
S4	12/09/20	0920	<10	<10	10	None	None	None	None	Green		Slightly Turbid		
S5	12/09/20	0900	10	10	12	None	None	None	None	Green		Turbid		
S6	12/09/20	0840	<10	<10	<2	None	None	None	None	Green		Turbid		
WEST	12/09/20	0835	<10	10	10	None	None	None	None	Green		Turbid		
S7	12/09/20	0830	10	10	10	None	None	None	None	Green		Turbid		
S8	12/09/20	0825	<10	<10	4	None	None	None	None	Green		Turbid		
S9	12/09/20	0810	10	<10	4	None	None	None	None	Green		Turbid		
ACM1	12/09/20	0810	<10	<10	2	None	None	None	None	Green		Turbid		
S10	12/09/20	0745	10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S11	12/09/20	0740	10	<10	8	None	None	None	None	Green		Slightly Turbid		
S12	12/09/20	0735	10	<10	6	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-Aliso Creek Ocean Outfall

REPORT FOR: December 2020
 REPORT DUE: February 1, 2021
 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 0930

Weather: Clear

COMMENTS:

0.0

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	12/16/20	0950	220	240	260	None	None	None	None	Green	65	Slightly Turbid		
S4	12/16/20	0930	<10	<10	2	None	None	None	None	Green		Slightly Turbid		
S5	12/16/20	0915	<10	<10	2	None	None	None	None	Green		Slightly Turbid		
S6	12/16/20	0850	10	<10	4	None	None	None	None	Green		Slightly Turbid		
WEST	12/16/20	0845	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S7	12/16/20	0840	<10	<10	4	None	None	None	None	Green		Slightly Turbid		
S8	12/16/20	0835	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S9	12/16/20	0825	<10	<10	2	None	None	None	None	Green		Slightly Turbid		
ACM1	12/16/20	0825	20	<10	2	None	None	None	None	Green		Slightly Turbid		
S10	12/16/20	0800	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S11	12/16/20	0755	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S12	12/16/20	0750	40	10	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-Aliso Creek Ocean Outfall

REPORT FOR: December 2020
 REPORT DUE: February 1, 2021
 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 1027

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	12/22/20	0955	<10	<10	<2	None	None	None	None	Green	66	Clear		
S4	12/22/20	0945	<10	<10	<2	None	None	None	None	Green		Clear		
S5	12/22/20	0940	<10	<10	<2	None	None	None	None	Green		Clear		
S6	12/22/20	0920	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
WEST	12/22/20	0915	<10	<10	<2	None	None	None	None	Green		Clear		
S7	12/22/20	0910	<10	<10	<2	None	None	None	None	Green		Clear		
S8	12/22/20	0905	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S9	12/22/20	0855	20	10	2	None	None	None	None	Green		Slightly Turbid		
ACM1	12/22/20	0835	30	10	<2	None	None	None	None	Green		Slightly Turbid		
S10	12/22/20	0825	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S11	12/22/20	0820	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S12	12/22/20	0815	10	40	2	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-Aliso Creek Ocean Outfall

REPORT FOR: December 2020
 REPORT DUE: February 1, 2021
 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 0800

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	12/29/20	1000	30	20	28	None	None	None	None	Green	59	Slightly Turbid		
S4	12/29/20	0950	60	30	62	None	None	None	None	Green		Slightly Turbid		
S5	12/29/20	0930	90	40	110	None	None	None	None	Green		Slightly Turbid		
S6	12/29/20	0915	110	50	200	None	None	None	None	Green		Slightly Turbid		
WEST	12/29/20	0910	150	80	310	None	None	None	None	Green		Slightly Turbid		
S7	12/29/20	0905	200	50	180	None	None	None	None	Green		Slightly Turbid		
S8	12/29/20	0900	200	50	280	None	None	None	None	Green		Slightly Turbid		
S9	12/29/20	0851	2,000	600	2,500	None	None	None	None	Green		Slightly Turbid	Flowing	
ACM1	12/29/20	0850	10,000	3,300	>4,000	None	None	None	None	Green		Slightly Turbid	Flowing	
S10	12/29/20	0830	<100	<100	46	None	None	None	None	Green		Slightly Turbid		
S11	12/29/20	0825	10	10	20	None	None	None	None	Green		Slightly Turbid		
S12	12/29/20	0815	<10	<10	4	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.

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: December 2020

REPORT DUE: February 1, 2021

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: High Tide 859

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	0 - None 1 - Mild 2 - Moderate 3 - Severe
A-1	Surface	12/02/20	<2	<2	<2	800	0	0	
A-1	Mid depth	12/02/20	<10	<10	<10				
A-2	Surface	12/02/20	<2	<2	<2	749	0	0	
A-2	Mid depth	12/02/20	20	<10	<10				
A-3	Surface	12/02/20	<2	<2	<2	753	0	0	
A-3	Mid depth	12/02/20	<10	<10	<10				
A-4	Surface	12/02/20	<2	<2	<2	805	0	0	
A-4	Mid depth	12/02/20	<10	<10	<10				
A-5	Surface	12/02/20	<2	<2	<2	757	0	0	
A-5	Mid depth	12/02/20	<10	<10	<10				
B-1	Surface	12/02/20	<2	<2	<2	742	0	0	
B-1	Mid depth	12/02/20	<10	<10	<10				
B-2	Surface	12/02/20	<2	<2	<2	810	0	0	
B-2	Mid depth	12/02/20	<10	<10	<10				
N1	Surface	12/02/20	<2	<2	<2	827	0	0	
N2	Surface	12/02/20	<2	<2	<2	826	0	0	
N3	Surface	12/02/20	2	<2	<2	825	0	0	
N4	Surface	12/02/20	2	<2	<2	823	0	0	
N5	Surface	12/02/20	<2	<2	<2	822	0	0	
N6	Surface	12/02/20	<2	<2	<2	820	0	0	
N7	Surface	12/02/20	2	<2	<2	819	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 10:30am.	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

SAN JUAN CREEK OCEAN OUTFALL MONITORING REPORT

December 2020

DATE	J.B. LATHAM FACILITY				SAN CLEMENTE WRP				SMWD CHIQUITA WRP				3-A PLANT				CSJC	SCWD	SJCOO	Rain
	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	Desalter FLOW MGD	Desalter FLOW MGD	FLOW MGD	Fall inches
12/01/20	6.670	10.9	8.7	0.1	2.992	7.6	8.0	<0.1	0.115	6.2	7.1	<0.1	1.586	8.4	3.2	ND	0.383	0.202	11.920	0.00
12/02/20	6.570	17.6	10.6	0.3	3.197	6.6	4.0	<0.1	0.612	10.0	4.4	0.4	1.587	11.4	10.4	ND	0.149	0.204	11.820	0.00
12/03/20	6.270	17.2	12.9	0.2	2.040	6.4	5.0	<0.1	0.013	3.0	2.7	0.1	1.550	8.2	7.7	ND	0.179	0.202	11.260	0.00
12/04/20	6.250	17.3	8.0	0.1	2.843	6.4	5.0	<0.1	0.018	2.1	2.2	0.1	1.553			ND	0.180	0.205	11.140	0.00
12/05/20	6.360	13.9	10.0		2.679				0.000				1.592				0.045	0.201	10.960	0.00
12/06/20	6.430	15.0	15.2		2.989				0.180				1.604	11.2	9.4		0.086	0.201	10.800	0.00
12/07/20	6.500	16.2	18.5	<0.1	3.283	8.8	8.0	<0.1	0.191	5.6	6.9	<0.1	1.584	7.6	6.8	ND	0.337	0.174	11.470	0.00
12/08/20	6.890	8.8	14.4	<0.1	2.470	7.6	8.0	<0.1	0.045	6.2	6.8	<0.1	1.565	6.0	5.7	ND	0.334	0.132	11.690	0.00
12/09/20	6.900	10.9	8.7	0.8	2.860	8.4	7.0	<0.1	0.010	5.2	3.7	<0.1	1.557	11.8	9.6	ND	0.240	0.162	11.040	0.00
12/10/20	6.900	10.0	7.1	0.1	2.428	8.2	7.0	<0.1	0.010	1.9	2.4	0.1	1.519	8.0	7.5	ND	0.283	0.202	11.460	0.00
12/11/20	6.250	7.4	6.3	0.1	2.723	10.6	7.0	<0.1	0.661	2.4	2.6	0.1	1.639			ND	0.310	0.201	10.560	0.00
12/12/20	6.210	6.6	6.1		3.213				0.145				1.747				0.339	0.202	12.290	0.00
12/13/20	6.290	10.2	9.2		3.707				0.601				1.589	11.8	8.8		0.363	0.203	12.110	0.01
12/14/20	6.440	11.6	9.5	<0.1	3.590	13.9	7.0	<0.1	0.444	4.9	8.2	<0.1	1.653	5.4	5.0	ND	0.363	0.201	12.750	0.02
12/15/20	7.100	9.7	7.7	<0.1	3.257	14.0	8.0	0.1	0.389	5.3	7.5	<0.1	1.628	7.6	7.2	ND	0.362	0.204	13.080	0.00
12/16/20	7.220	9.0	7.8	0.2	3.302	12.5	7.0	0.1	0.548	3.7	4.0	<0.1	1.220	11.6	9.8	ND	0.362	0.201	12.200	0.00
12/17/20	7.650	11.5	6.8	0.1	2.936	12.4	7.0	0.1	0.013	1.9	1.9	<0.1	1.570	6.2	5.8	ND	0.362	0.200	12.580	0.02
12/18/20	6.950	9.7	7.7	0.1	3.273	11.6	7.0	<0.1	0.324	2.2	1.8	<0.1	1.600			ND	0.362	0.205	11.200	0.01
12/19/20	6.620	9.4	7.3		3.350				0.494				1.604				0.361	0.201	11.780	0.00
12/20/20	6.840	11.4	9.0		3.160				1.109				1.602	9.4	6.3		0.362	0.201	12.250	0.00
12/21/20	6.910	9.5	8.3	<0.1	2.881	10.7	8.0	<0.1	0.014	6.0	7.5	<0.1	1.573	11.8	10.6	ND	0.360	0.204	12.370	0.00
12/22/20	7.050	8.3	5.3	0.2	3.184	8.5	8.0	<0.1	0.004	3.3	7.9	<0.1	1.543	11.2	10.4	ND	0.361	0.204	11.560	0.00
12/23/20	6.940	6.5	6.1	<0.1	2.852	8.0	5.0	<0.1	0.233	3.5	4.2	<0.1	1.577	10.2	8.6	ND	0.361	0.201	11.420	0.00
12/24/20	7.110	6.6	6.7	0.1	3.624	6.9	5.0	<0.1	0.041	3.5	5.0	0.1	1.599	6.8	6.2	ND	0.361	0.200	11.890	0.00
12/25/20	7.100	7.3	6.0	0.2	3.621	9.6	8.0	<0.1	0.025	3.8	3.1	0.1	1.441			ND	0.361	0.205	12.130	0.01
12/26/20	6.320	5.4	6.7		3.669				0.069				1.547				0.361	0.201	11.360	0.00
12/27/20	6.980	7.6	7.6		3.347				0.145				1.573	11.8	8.5		0.361	0.201	12.190	0.00
12/28/20	7.130	6.9	7.0	0.1	3.960	6.4	7.0	<0.1	1.539	5.9	6.8	<0.1	1.633	10.6	9.8	ND	0.361	0.205	12.350	0.49
12/29/20	7.680	5.2	6.3	0.1	4.020	6.3	8.0	<0.1	0.983	8.8	7.8	<0.1	1.578	9.2	8.8	ND	0.360	0.202	15.520	0.00
12/30/20	6.890	7.7	6.4	0.1	3.413	6.0	5.0	<0.1	0.926	5.7	4.9	2.0	1.540	10.4	9.2	ND	0.360	0.205	13.650	0.00
12/31/20	6.650	8.3	7.8	0.1	3.380	4.5	5.0	<0.1	1.060	4.4	5.2	<0.1	1.537	4.4	5.1	ND	0.360	0.201	13.190	0.00
AVG	6.776	10.1	8.6	<0.2	3.169	8.8	6.7	<0.1	0.354	4.6	5.0	<0.2	1.571	9.2	7.8	ND	0.314	0.198	12.000	
TOTAL	210.070				98.243				10.961				48.690				9.729	6.133	371.990	0.56

REPORT FOR: December 2020
 REPORT DUE: February 1, 2021
 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 0833

Weather: Overcast

COMMENTS:

STA#	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	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	12/07/20	832	<20	<20	4	None	None	None	None	Green	60	Clear		
S1	12/07/20	841	<20	<20	<2	None	None	None	None	Green		Clear		
S2	12/07/20	820	<20	<20	2	None	None	None	None	Green		Clear		
DSB5	12/07/20	809	80	20	4	None	None	None	None	Green		Clear		
S3	12/07/20	842	20	<20	8	None	None	None	None	Green		Clear		
DSB4	12/07/20	843	<20	<20	6	None	None	None	None	Green		Clear		10
S5	12/07/20	850	<20	<20	<2	None	None	None	None	Green	60	Clear		
DSB1	12/07/20	855	<20	<20	<2	None	None	None	None	Green		Clear		
SJC1	12/07/20	830	<100	<100	<10	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.

REPORT FOR: December 2020
 REPORT DUE: February 1, 2021
 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 0915

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	12/16/20	840	<20	<20	<2	None	None	None	None	Green	59	Slightly Turbid		
S1	12/16/20	845	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S2	12/16/20	745	20	40	110	None	None	None	None	Green		Slightly Turbid		
DSB5	12/16/20	735	60	60	28	None	None	None	None	Green		Slightly Turbid		
S3	12/16/20	850	<20	<20	<2	None	None	None	None	Green		Clear		
DSB4	12/16/20	855	<20	<20	<2	None	None	None	None	Green	Clear			
S5	12/16/20	905	<20	<20	4	None	None	None	None	Green	Clear			
DSB1	12/16/20	915	<20	<20	2	None	None	None	None	Green	Clear			
C1	12/16/20	835	<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: December 2020
 REPORT DUE: February 1, 2021
 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 0910

Weather: Clear

COMMENTS:

STA#	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	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	12/21/20	805	<20	<20	<2	None	None	None	None	Green	61	Slightly Turbid		
S1	12/21/20	815	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S2	12/21/20	740	20	20	8	None	None	None	None	Green		Slightly Turbid		
DSB5	12/21/20	730	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S3	12/21/20	820	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB4	12/21/20	822	<20	<20	2	None	None	None	None	Green		Slightly Turbid		
S5	12/21/20	830	<20	<20	<2	None	None	None	None	Green	61	Slightly Turbid		
DSB1	12/21/20	840	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
C1	12/21/20	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: December 2020
 REPORT DUE: February 1, 2021
 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

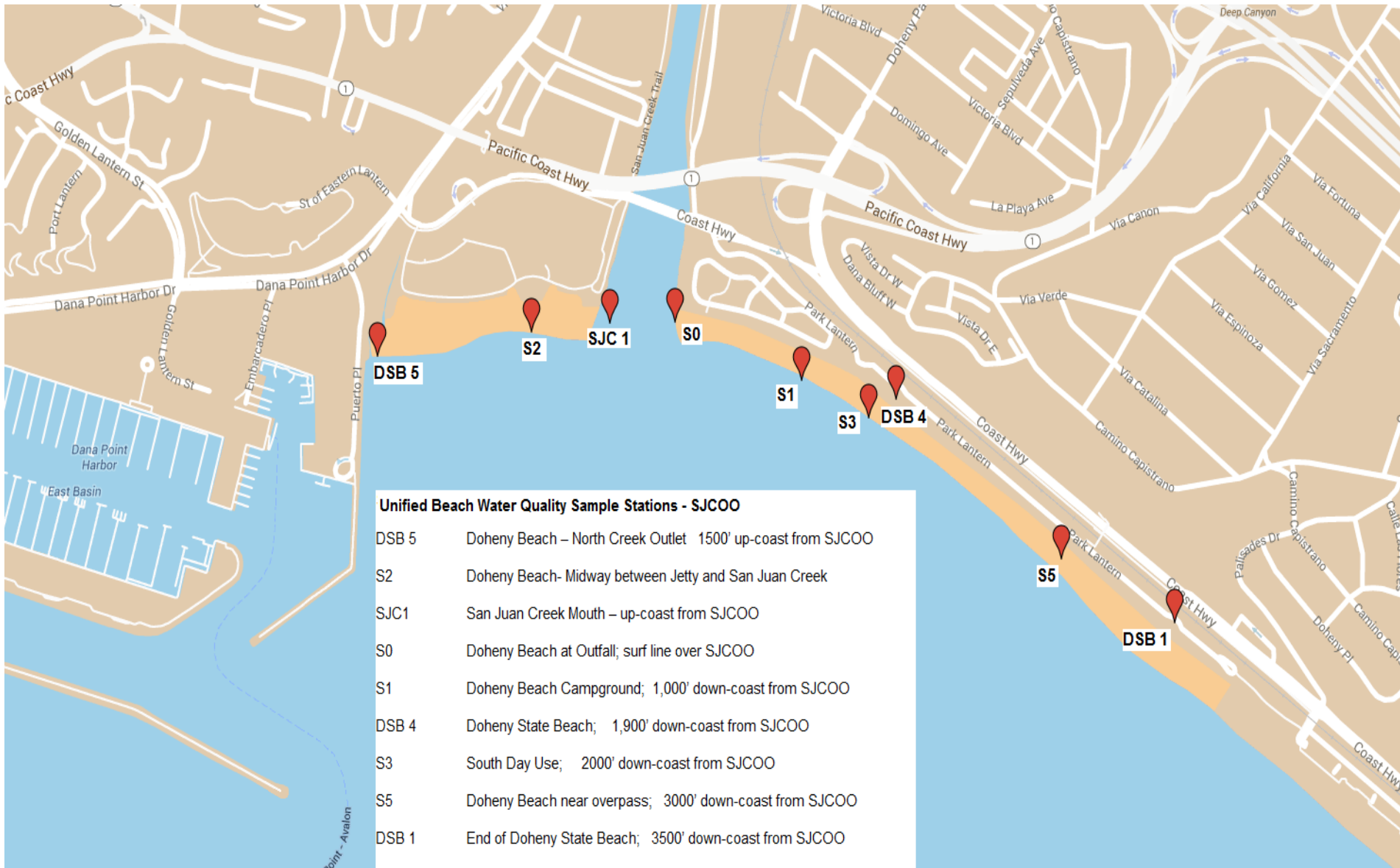
Tidal Condition: High Tide 817

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	12/30/20	945	100	20	74	None	None	None	None	Green		Slightly Turbid		
S1	12/30/20	950	40	<20	54	None	None	None	None	Green		Slightly Turbid		
S2	12/30/20	840	200	60	90	None	None	None	None	Green	59	Slightly Turbid		
DSB5	12/30/20	800	>=14,000	5,600	200	None	None	None	None	Green		Slightly Turbid	Flowing	
S3	12/30/20	955	60	40	28	None	None	None	None	Green		Slightly Turbid		
DSB4	12/30/20	1005	20	40	36	None	None	None	None	Green		Slightly Turbid		
S5	12/30/20	1010	40	<20	20	None	None	None	None	Green		Slightly Turbid		
DSB1	12/30/20	1015	20	20	48	None	None	None	None	Green		Slightly Turbid		
C1	12/30/20	900	1,500	200	1,000	None	None	None	None	Brown		Slightly Turbid	Flowing	

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



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: December 2020

REPORT FREQUENCY: Monthly

REPORT DUE: February 1, 2021

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: High Tide 859

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	0 - None 1 - Mild 2 - Moderate 3 - Severe
A-1	Surface	12/02/20	2	<2	<2	921	0	0	
A-1	Mid depth	12/02/20	<10	<10	<10				
A-2	Surface	12/02/20	<2	<2	<2	924	0	0	
A-2	Mid depth	12/02/20	<10	<10	<10				
A-3	Surface	12/02/20	<2	<2	<2	931	0	0	
A-3	Mid depth	12/02/20	<10	<10	<10				
A-4	Surface	12/02/20	<2	<2	<2	938	0	0	
A-4	Mid depth	12/02/20	<10	<10	<10				
A-5	Surface	12/02/20	<2	<2	<2	935	0	0	
A-5	Mid depth	12/02/20	<10	<10	<10				
B-1	Surface	12/02/20	4	<2	<2	913	0	0	
B-1	Mid depth	12/02/20	10	20	<10				
B-2	Surface	12/02/20	<2	<2	<2	942	0	0	
B-2	Mid depth	12/02/20	<10	<10	<10				
N1	Surface	12/02/20	8	<2	<2	908	0	0	
N2	Surface	12/02/20	8	<2	2	905	0	0	
N3	Surface	12/02/20	8	<2	2	900	0	0	
N4	Surface	12/02/20	20	10	2	856	0	0	
N5	Surface	12/02/20	<2	<2	<2	854	0	0	
N6	Surface	12/02/20	<2	<2	<2	852	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.

**Compliance Summary Report
San Juan Creek Ocean Outfall 2020**

SJCOO Permit Order No. R9-2012-0012							
Agency	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
City of San Juan Capistrano	9/30/2020	TSS, Turbidity, pH, O & G, Settleable Solids, and Conductivity	Not monitored	Various	Monthly	Not Reported	\$18,000
SOCWA Combined Discharge	10/13/2020	Chronic Toxicity	101	TUc	Quarterly	500	\$3,000
City of San Clemente	12/5/2020	TSS, cBOD	Not monitored	Various	Weekly	Not Reported	\$6,000



**SOCWA and MEMBER AGENCY FACILITIES
SJCOO Spill / Overflow Report Log - 2020
Order No. R9-2012-0012 ~ NPDES Permit No. CA0107417**

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

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	
SOCWA - RTP	11/5/2020	Manganese	12-Month	mg/L	0.05	0.11	
SOCWA - RTP	11/5/2020	TDS	12-Month	mg/L	1000	1058	
SOCWA - CTP	11/5/2020	Manganese	12-Month	mg/L	0.05	0.07	
MNWD- 3A	Facility offline	Manganese	12-Month	mg/L	0.05	0.07	
MNWD- 3A	Facility offline	TDS	12-Month	mg/L	1000	1062	
SOCWA - RTP	12/1/2020	Manganese	12-Month	mg/L	0.05	0.11	
SOCWA - RTP	12/1/2020	TDS	12-Month	mg/L	1000	1146	
SOCWA - CTP	12/1/2020	Manganese	12-Month	mg/L	0.05	0.07	
MNWD- 3A	Facility offline	Manganese	12-Month	mg/L	0.05	0.72	
MNWD- 3A	Facility offline	TDS	12-Month	mg/L	1000	1062	

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending: Dec 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	948	881	850	935	1,062	1,146	958
Chloride	mg/L	375	244	208	151	292	224	253	238
Sulfate	mg/L	400	259	294	234	238	271	345	300
Sodium	mg/L	None	197	155	158	215	175	182	158
Alkalinity	mg/L	None	-	-	-	-		264	211
Adjusted SAR	Ratio	None	4.81	4.74	4.91	5.80	4.18	4.24	4.22
Iron	mg/L	0.3	0.017	0.023	0.128	0.007	0.17	0.490	0.131
Manganese	mg/L	0.05	0.009	0.027	0.038	0.014	0.072	0.105	0.068
MBAS	mg/L	0.5	0.03	0.16	0.16	0.29	0.00	0.10	0.10
Boron	mg/L	0.75	0.289	0.335	0.338	0.410	0.40	0.368	0.32
Fluoride	mg/L	None	0.35	0.715	0.57	0.61	0.95	0.83	0.77
Total Organic Carbon	mg/L	None	8.3	12.6	11.7	10.1	4.5	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	0.00	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	33.16	33.37	309.16
CSJC 3	Non-Domestic Well	8.63	8.63	2.75	6.73	27.41	35.89	68.38	41.91	11.45	0.00	0.01	0.00	211.79
ETWD	Region 8	26.43	52.97	29.86	59.75	168.02	177.30	218.39	229.55	195.78	167.40	95.79	75.55	1,496.79
IRWD														
4	IRWD - 8	54.89	83.88	50.90	36.29	137.20	145.94	175.99	172.36	184.73	149.06	101.66	113.06	1,405.97
4	IRWD - 9	26.02	46.16	24.48	23.10	77.28	84.69	108.54	104.91	106.51	81.59	59.01	60.24	802.54
SCWD	SOCWA CTP	22.75	48.17	22.67	39.78	114.47	88.37	145.97	121.00	98.12	84.99	64.19	86.06	936.54
MNWD	JRP	101.06	197.36	111.65	234.19	535.80	539.51	615.50	605.34	592.66	561.82	446.28	352.03	4,893.19
	3-A Plant	41.27	0.00	0.00	0.00	38.21	141.02	117.82	155.66	121.99	144.41	0.00	0.00	760.38
5	CTP	1.02	4.83	3.49	8.29	20.47	16.45	17.79	25.63	20.92	8.15	3.45	16.96	147.44
SMWD	Oso Creek	151.09	137.88	159.15	82.28	152.12	147.36	154.09	153.65	143.09	148.71	144.00	145.33	1,718.74
	Chiquita	64.63	293.17	180.82	132.12	385.36	432.44	509.56	515.91	486.42	484.49	407.33	481.72	4,373.96
	Nichols	1.49	1.46	1.48	1.48	1.59	1.83	2.15	2.30	1.78	1.75	1.47	1.57	20.36
TCWD	RRWRP	50.40	45.36	38.43	37.68	54.53	50.52	51.05	50.50	41.96	49.24	49.29	NR	518.95
TOTALS		549.70	932.55	635.63	670.78	1,751.56	1,896.64	2,223.38	2,213.69	2,039.21	1,919.82	1,405.65	1,365.90	17,604.51

- 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

4L

Legal Counsel Review: No

Meeting Date: February 4, 2021

TO: SOCWA Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Katie Greenwood, Source Control Manager

SUBJECT: Monthly Pretreatment Report, December 2020 and January 2021
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. Member agencies (MAs) continue the process of amending their pretreatment ordinances. ETWD, SMWD, and IRWD have all adopted the new changes. Red line marked versions of each MA ordinance have been provided to MA Staff. MA Staff should reach out with any questions or concerns.

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 is reviewing and entering 2020 annual influent/effluent sampling result data for all nine treatment plants including SOCWA (JBL, CTP, RTP), SMWD (Chiquita, 3A, Oso), CSC, IRWD and ETWD into the Water Information Management Solution (WIMS) database so it may be uploaded electronically to the California Integrated Water Quality System (CIWQS) database. Staff is also working on completing the narrative portion of the 2020 SOCWA Annual Pretreatment report. The final report will be submitted electronically to the RWQCB-SD by the due date of March 1, 2021.

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:

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. A permit for the new location was issued December 17, 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. WD Permit No. CSJC-2-001-08-23 was terminated upon issuance of a new permit, WD Permit No. CSJC-2-001-12-22 on January 20, 2021. The new permit allows for the discharge of pre-treated process wastewater collected from stable areas after rain events and the continued discharge of wash rack wastewater.

SMWD/MNWD – SWD Permit No. SOCWA-4-005 –Lake Mission Viejo Advanced Purified Water Treatment Facility (APWTF) – Staff received a renewal permit application on January 13, 2021. The current Permit is set to expire February 19, 2021. Staff is working with MA Staff to issue a renewal permit on-time.

Inspections

IRWD – On January 13, 2021, SOCWA Staff inspected Herbalife located at 25392 Commerce Centre Dr. in Lake Forest. The inspection was triggered by a request for tenant improvements submitted to the City and IRWD. Inspection findings conclude that a three-stage interceptor may be appropriate to remove solids in the form of residual powders, washed from equipment prior to connection to sewerage facilities. Inspection findings require the submittal of a permit application.

Enforcement

CSJC – Staff issued a warning notice of non-compliance (WNON) on January 19, 2021 to Blenheim Facility Management/Mission Riding Park for failing to maintain holding tanks by pumping free of sediment sludge/wastewater twice during the 2020 calendar year. The holding tanks were pumped once during the year. New Staff is operating the Park as of December 2020.

MNWD – Before the end of Jan. 2021, Staff expects to issue a WNON to OC Public Works, J01P28 Urban Runoff Treatment facility, for failing to submit sampling data collected during the 4th quarter 2020 reporting period. OC Staff has agreed to collect and analyze two samples during the 1st quarter 2021 reporting period. The site has an established history of compliance. SOCWA Staff considers this enforcement action resolved.

Summary of IWS Activities in the SOCWA Service Area - YTD through January 20, 2021

MA IUs	Events	Permits	NIWD	BMPs	FSEs	OSes	DSEs	Closed	Enforcement	Total IUs
CLB (S)	0	3	2	5	8	110	25	0	0	128
CSC (S)	3	10	35	18	181	1295	58	0	0	1597
CSJC (S)	1	3	27	59	137	1666	38	0	1	1930
ETWD (M)	0	3	87	0	262	132	84	0	0	568
EBSD (U)	0	1	0	0	0	0	0	0	0	1
IRWD (S)	2	4	51	21	63	937	24	0		1100
MNWD (S)	1	4	123	39	627	2086	200	0	0	3079
SMWD (S)	4	6	19	20	204	782	79	1	0	1110
SCWD (S)	0	8	33	7	148	182	27	0	0	405
TCWD (S)	0	11	0	0	0	33		0	0	44
SOCWA (S)	0	3	1	0	0	0		0	0	4
Totals	11	56	378	169	1630	7223	535	1	1	9966

(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

4M

Board of Directors Meeting

Meeting Date: February 4, 2021

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 in the basins.



San Juan Creek Ocean Outfall Junction Structure Rehabilitation
Insertion of duplex stainless steel sleeve to reinforce structure:

Junction Structure exposed on Doheny Beach.



The contractor, Filanc, built a mock-up of the structure and sleeve pieces so divers could practice before entering the actual structure.



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:

Grit channel before (left) and after (right) rehabilitation.



Regional Treatment Plant Miscellaneous Improvements 2018

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

New polymer control panels installed in the DAFT polymer room



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

Quarter	Fiscal Year 20/21				Fiscal Year 21/22			
	1st	2nd	3rd	4th	1st	2nd	3rd	4th
3220; 3231; 3287	C	C	C	C	C	C		
3350	D	D	D					
3221	P	P	P					
3353	D	D	D					
4201	CA	CA	CA	CA				
4204	CA	CA						
4203	P	P	P					
3234				B&A	C	C		
3235; 3227					D	D	D	
3285					B&A	C	C	
42211			P	P				
42212			P	P				
42213			CA	CA				
42214			CA	CA				
42215			CA	CA				
42216			CA	CA				
4211			P	P				
3229				B&A	C	C		
4212			P	P				
4213			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. 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	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	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			
		Quarter	1st	2nd	3rd	4th	1st	2nd	3rd
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.
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.

**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			
3650-000	Junction Structure Reinforcement Permitting and Final Design	Design	Phase II contract amendment for Filanc was approved by the Board in November 2020. Construction in the Junction Structure began in January 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 this one Task Code.
3534-000	Export Sludge System (1997)	Design	The contract for construction was approved in December 2020 by the Board of Directors. Preliminary construction work will begin in January 2021.
3525-000	Personnel Building Reconstruction (2019)	Bid	Project delayed due to COVID-19, now scheduled to begin 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 March 2021.
4501-000	Electrical Manhole/Cable Assessment	Study	Project delayed due to COVID-19, now scheduled to begin in March 2021.
4502-000	Building Roof Condition Assessment	Study	Project delayed due to COVID-19, now scheduled to begin in March 2021.
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 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)	Hold	This condition assessment will be completed with the AWT No. 2 project.

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

Task Code	Description	Phase	Status
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.
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 Spring 2021.
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 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 Spring 2021.
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 Spring 2021.
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	The contract for design was awarded to Tetra Tech by the Board of Directors in November 2020.
3106-000	Air Vacuum Release Valve Replacement Reach E Design and Permitting	Design	The contract for design was awarded to Tetra Tech by the Board of Directors in November 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 April 2021.

Agenda Item

4N

Board of Directors Meeting

Meeting Date: February 4, 2021

TO: PC-2, PC-5, 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, 5, 15, & 17]

Summary/Discussion

The attached CIP Report shows the financial status of the four major construction projects as well as any potential and Engineering Committee reviewed change orders. Please note that there is one new change order for the JBL Package B Project, one new change order for the CTP Facility Improvement Project, and six new change orders for the RTP Miscellaneous Improvements 2018 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:

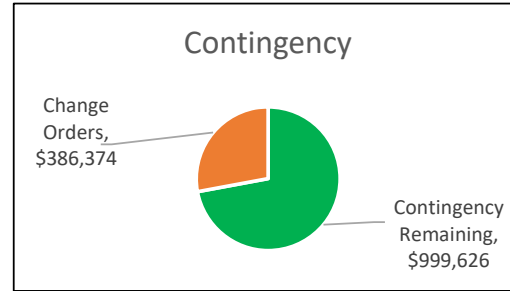
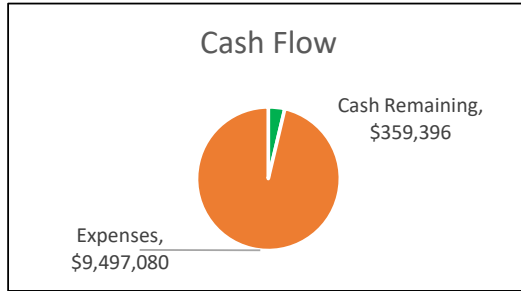
1. The PC-2 Board to approve Change Order 16 to Olsson Construction totaling \$42,780; and
2. The PC-15 Board to approve Change Order 14 to PCL for a credit of \$8,803; and
3. The PC-17 Board to approve Change Orders 15 through 20 to Filanc for a total of \$111,838.

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

January 4, 2021



Cash Flow

Collected	\$9,856,476
Expenses	\$9,497,080

Project

Completion

Schedule	63%
Budget	43%

Contracts

Company	PO No.	Original	Change Orders	Total	Paid
Olsson	13497	\$ 17,325,000	\$ 386,374	\$ 17,711,374	\$ 6,976,859
Butier	13647	\$ 1,055,325	\$ -	\$ 1,055,325	\$ 745,968
Carollo	13616	\$ 846,528	\$ -	\$ 846,528	\$ 686,755
TetraTech	13605	\$ 94,000	\$ -	\$ 94,000	\$ 81,837
		\$ 19,320,853	\$ 386,374	\$ 19,707,227	\$8,491,419

Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3220-000	\$ 616,800	\$ 73,170	\$ 543,630	11.9%
Common	3231-000	\$ 96,800	\$ -	\$ 96,800	0.0%
Solids	3287-000	\$ 672,400	\$ 313,204	\$ 359,196	46.6%
		\$ 1,386,000	\$ 386,374	\$ 999,626	27.9%

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	Approved by Board of Directors	12/17/2020		\$ 73,639
11	Olsson	3220-000	Blasting of Existing Influent Pipe Spools	Approved by Board of Directors	12/17/2020		\$ 20,869
12	Olsson	3220-000	Duct bank K Interferences	Approved by Board of Directors	12/17/2020		\$ 15,567
13	Olsson	3287-000	Digester 3/4 PLC Relocation	Approved by Board of Directors	12/17/2020		\$ 41,368
14	Olsson	3287-000	Digester 4 Additional Tank Repair	Approved by Board of Directors	12/17/2020		\$ 34,800
15	Olsson	3220-000	Duct bank O Interferences	Approved by Board of Directors	12/17/2020		\$ 1,687
16	Olsson	3287-000	Digester 3/4 Control Building Roof Replacement	Within contingency, to be reviewed by Engineering Committee	1/14/2021		\$ 42,780
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	
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	

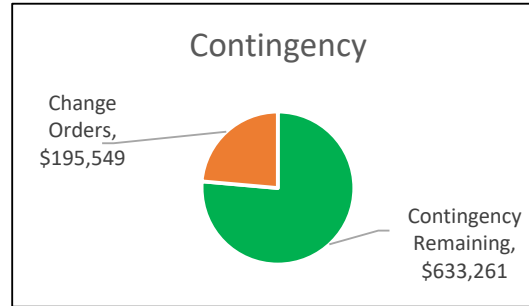
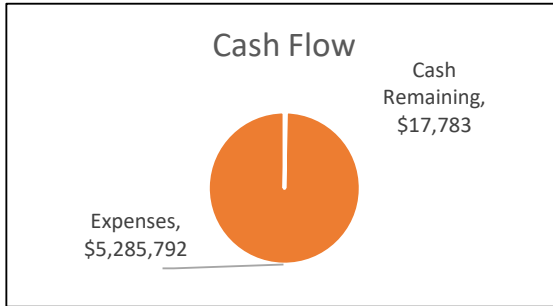
Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
PCO 008	Olsson	3287-000	Conduit Routing Conflict from MCC-F1	Potential Change	(blank)	\$15,000	
PCO 009	Olsson	3287-000	PLC East Headworks Integration	Potential Change	(blank)	\$5,000	
PCO 012	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	
PCO 037	Olsson	3231-000	ing Monorail and O	Potential Change	12/10/2020	\$10,000	
PCO 039	Olsson	3220-000	Gate Actuator Powe	Potential Change	8/13/2020	\$5,000	
PCO 049	Olsson	3287-000	ations due to Chan	Potential Change	12/2/2020	\$20,000	
PCO 050	Olsson	3220-000	scoping Valves Re	Potential Change	12/23/2020	\$30,000	
Grand Total						\$245,448	\$ 386,374

Project Financial Status

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

Data Last Updated

January 4, 2021



Cash Flow

Collected	\$5,303,575
Expenses	\$5,285,792

Project Completion

Schedule	71%
Budget	47%

Contracts

Company	PO No.	Original	Change Orders	Total	Paid
PCL	13751	\$ 9,209,000	\$ 195,549	\$ 9,404,549	\$ 4,321,035
Butier	13647	\$ 812,288	\$ -	\$ 812,288	\$ 551,958
Hazen & Sawyer	13648	\$ 490,484	\$ -	\$ 490,484	\$ 204,834
		\$ 10,511,772	\$ 195,549	\$ 10,707,321	\$5,077,826

Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3539-000	\$ 828,810	\$ 195,549	\$ 633,261	23.6%
		\$ 828,810	\$ 195,549	\$ 633,261	23.6%

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	Approved by Board of Directors	12/17/2020		\$ 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	Approved by Board of Directors	12/10/2020		\$ 18,356
13	PCL	3539-000	Conduit, wiring, and mounting of LL1 fixtures	Approved by Board of Directors	12/10/2020		\$ 5,001
14	PCL	3539-000	MCC Feeder Credit	Within contingency, to be reviewed by Engineering Committee	1/14/2021		\$ (8,803)
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 Descope	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 Descope	Potential Change	(blank)	-\$400,000	
PCO 025	PCL	3539-000	Sludge Collector Mounting Plate Replacement	Potential Change	(blank)	\$13,815	

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
PCO 026	PCL	3539-000	Additional Spall Repair - East Secondary Basins	Potential Change	(blank)	\$10,000	
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 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	

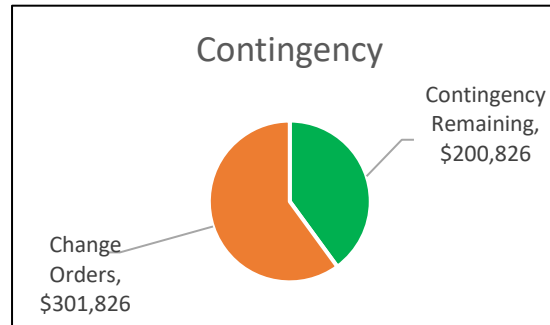
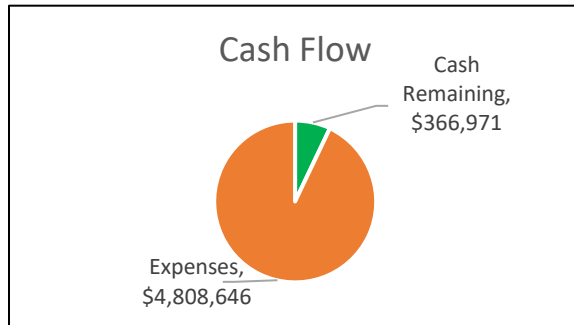
Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
PCO 048	PCL	3539-000	West Secondary Effluent Channel Concrete Repair	Potential Change	(blank)	\$20,000	
PCO 049	PCL	3539-000	Removal of Scope - West Basin Sludge/Scum Collection Equipment	Potential Change	(blank)	-\$300,000	
PCO 050	PCL	3539-000	RAS Box Leaks	Potential Change	(blank)	\$0	
PCO 051	PCL	3539-000	Grit Grating Modifications	Potential Change	(blank)	\$0	
Grand Total						-\$461,685	\$195,549

Project Financial Status

Data Last Updated

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

January 4, 2021



Cash Flow

Collected	\$5,175,617
Expenses	\$4,808,646

Project Completion

Schedule	95%
Budget	90%

Contracts

Company	PO No.	Original	Change Orders	Total	Paid
Filanc	13678	\$ 4,181,205	\$ 241,166	\$ 4,422,371	\$ 4,032,349
Dudek	14164	\$ 137,625	\$ 60,660	\$ 198,285	\$ 139,607
Lee & Ro	14006	\$ 123,310	\$ -	\$ 123,310	\$ 119,175
		\$ 4,442,140	\$ 301,826	\$ 4,743,966	\$ 4,291,130

Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3701-000	\$ 343,593	\$ 274,058	\$ 69,535	79.8%
Common	3769-000	\$ 4,545	\$ -	\$ 4,545	0.0%
Solids	3751-000	\$ 154,514	\$ 27,768	\$ 126,746	18.0%
		\$ 502,652	\$ 301,826	\$ 200,826	60.0%

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
15	Filanc	3701-000	Replace installation of fan with louver	Within contingency, to be reviewed by Engineering Committee	1/14/2021		\$ (647)
16	Filanc	3701-000	New wire pulled for Sed Basins 5 & 6 flow meters	Within contingency, to be reviewed by Engineering Committee	1/14/2021		\$ 1,056
17	Filanc	3701-000	New lighting, outlet, and circuit for scum and sample pumps	Within contingency, to be reviewed by Engineering Committee	1/14/2021		\$ 24,000

Change Order No.	Vendor Name	Project ID	Description	Status	Status Date	Potential Change Amount	Final Amount
18	Filanc	3701-000	Update instrumentation including 13 new pressure indicators, remove unneeded stations, various epoxy and concrete repair.	Within contingency, to be reviewed by Engineering Committee	1/14/2021		\$ 41,094
19	Filanc	3701-000	Modify hardware, PLC logic, and HMI for a polymer alternate water use.	Within contingency, to be reviewed by Engineering Committee	1/14/2021		\$ 15,858
20	Filanc	3701-000	Add new DAF flow meters including additional piping and conduit	Within contingency, to be reviewed by Engineering Committee	1/14/2021		\$ 30,477
Grand Total							\$ 241,166

Agenda Item

5A

Board of Directors Meeting

Meeting Date: February 4, 2021

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jason Manning, Director of Engineering

SUBJECT: Coastal Treatment Plant (CTP) Sludge Force Main Replacement Project
Construction Management Services [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. Proposals for Construction Management services were due on January 8, 2021.

Proposals

SOCWA requested proposals from the following firms:

ARCADIS
Butier Engineers
Carollo Engineers
MWH Constructors

ARCADIS, Butier, and MWH attended the pre-proposal meeting held by teleconference on December 22, 2020. Butier was the only firm to respond provided a proposal (attached to this staff report) and is summarized below in Table 1.

Table 1 – Summary of Proposals

Firm	Butier
Project Director	Mark Butier
Resident Engineer	Louis Francuz
Field Engineer	Bryan Wilson
Technical Support	Casey Harris / Bill Baker
Field Inspectors	Gary Shulz / Martin Brunenicks
Subconsultants	None
Total Labor Hours	1,506
Total Cost	\$226,100

Cost Allocation

Table 2 – Cost allocation by member agency for the Butier Construction Management proposal

Agency	Construction Management
	3534-000
CLB	\$ 85,715.52
EBSB	\$ 6,749.25
MNWD	\$ 66,142.69
SCWD	\$ 67,492.54
Total	\$226,100.00

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	\$ 226,100		\$ 226,100
Total	\$4,021,052	\$ 248,588	\$4,247,152

The above costs have been identified and presented to the Engineering Committee. The costs are within the current budget with an expected surplus of \$497,872.

Recommended Action: The Engineering Committee recommends to the PC 15 Board to award the time and materials contract to Butier Engineers in the amount of \$226,100 for the construction management services during construction for the CTP Sludge Force Main Project.

Agenda Item

6A

Board of Directors Meeting

Meeting Date: February 4, 2021

TO: Board of Directors

FROM: Betty Burnett, General Manager

SUBJECT: Commendation for Ray Miller for Providing Dedicated Service to The South Orange County Wastewater Authority and The Residents of Southern Orange County

Summary

Ray Miller grew up in upstate New York and came to California with his Mom and his older sister when he was 12 years old. He always had a strong work ethic for his studies which he attributed to his uncle who was influential in Ray's early life. Director Miller had a lifetime of public service beginning in his youth with service in the Korean War for 3 years (9 months and two days) as a radar operator. Mr. Miller began his work career at LA County Flood Control and over the years he earned the title of Professional Engineer. He worked at Orange County Flood Control District and that job brought him to coordinate projects with Water Works Number 4, which later became the Capistrano Valley Water District. His work gave the opportunity to participate in the major water infrastructure projects that serve the south Orange County area today. Along the way, Ray met Marianne and as he was 6 years older than she is, he had to convince her family that he was a good guy. Ray would share that he "knew the minute he met her" she was for him. Director Miller loved San Juan and the surrounding area and settled his home in San Juan Capistrano where he lived with his family for 50+ years. In San Juan, Ray and Marianne raised two children and two grandchildren who attended Mission Parish schools. Director Miller served several public water and water treatment agencies as he served as the General Manager for South Coast Water District for 25 years and retired in 1992. During his career, Mr. Miller served as President for the California Association of Sanitation Agencies, and he was active with the American Water Works Association serving as National Treasurer. During his retirement years he continued working on behalf of public agencies by forming the Southern California Alliance of POTWs. In that effort he brought along many of the colleagues he knew from the water industry, including Bob Kreg, Dennis Erdman and Lisa Ohlund, who are also residents of our surrounding community. Ray was also active at the San Juan Utilities Commission, which appointed him to serve at SOCWA beginning in April 2017.

Recommended Action: Staff recommends to the Board of Directors to adopt Resolution No. 2021-01 and authorize Chairman Erdman to sign the Commendation on behalf of the Board of Directors of the South Orange County Wastewater Authority.

Attachments (1): Resolution No. 2021-01

RESOLUTION OF COMMENDATION
Resolution No. 2021-01
ADOPTED BY THE BOARD OF DIRECTORS
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
February 4, 2021

**COMMENDATION FOR RAY MILLER FOR PROVIDING DEDICATED SERVICE TO
THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY AND THE
RESIDENTS OF SOUTHERN ORANGE COUNTY**

WHEREAS, South Orange County Wastewater Authority (SOCWA) facilitates and manages the collection, transmission, treatment, reuse and disposal of wastewater for more than 500,000 homes and businesses across South Orange County.

WHEREAS, SOCWA, on behalf of its Board of Directors and staff, desires to recognize the contribution of Director Ray Miller to SOCWA's work in the protection of public health and safety and the environment.

WHEREAS, Ray Miller began his career at LA County Flood control and over the years he earned the title of Professional Engineer.

WHEREAS, Director Miller worked at Orange County Flood Control District and that job brought him to coordinate projects with Water Works Number 4, which later became the Capistrano Valley Water District. His work gave the opportunity to participate in the major water infrastructure projects that south Orange County today.

WHEREAS, Mr. Miller served as the General Manager for South Coast Water District for 25 years and retired in 1992. During his career, Ray Miller served as President for the California Association of Sanitation Agencies, and he was active with the American Water Works Association serving as National Treasurer.

WHEREAS, following his retirement, Director Miller founded the Southern California Alliance of POTWs, and SCAP serves and aligns the interests of wastewater treatment stakeholders contributing an industry voice by participation in State legislative and regulatory initiatives.

WHEREAS, Ray Miller was active at the San Juan Utilities Commission, which in turn provided for his service at SOCWA as a valued Board Member and Board Alternate.

THEREFORE, BE IT RESOLVED: That the Board of Directors of the South Orange County Wastewater Authority does hereby commend Ray Miller for his dedicated service and commitment to the mission of the South Orange County Wastewater Authority.

PASSED AND ADOPTED by the Board of Directors of the SOUTH ORANGE COUNTY WASTEWATER AUTHORITY, County of Orange, State of California on the 4th day February 2021.

(Seal)

Dennis Erdman, Chairman

Betty Burnett, General Manager and Board Secretary

Agenda Item

6C

Board of Directors Meeting

Meeting Date: February 4, 2021

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

OUTREACH

Staff has prepared a Newsletter highlighting that 2020 will be the year SOCWA begins its 20th year of service to the member agencies and the south Orange County communities we serve. The newsletter has been shared with SOCWA employees and agency managers and SOCWA Board Members. We would like to share the Newsletter more broadly with stakeholders and community leaders, and staff would like input from the Board on that concept. See Newsletter attached.

SAFETY

Attached is the Quarterly Memo documenting the progress of the SOCWA Safety Department through the end of the Fourth Quarter 2020/Calendar Year 2020, as well as upcoming safety items anticipated for the First Quarter 2021.

Also attached is the Fourth Quarter 2020 Quarterly Safety Update including recent safety trainings completed at SOCWA, Near Misses reported, and OSHA Recordable Injuries at SOCWA.

SOCWA reported the 2020 OSHA 300 log with no reportable accidents. The effort of all employees' achievements should be recognized as a team effort between all the Departments at SOCWA. No reportable accidents are ultimately a result of our commitment to employee safety and ensuring an effective safety program. The wastewater industry is traditionally a dangerous industry, and this achievement should not go unnoticed.

SCAP HIGHLIGHTS

Attached is the Annual Highlights Report 2020 from the Southern California Alliance of Public Owned Treatment Works. The Report highlights the focus of priorities for SCAP and its engagement on behalf of its partner agencies this past year. SOCWA staff has participated with Jim Burror serving as Assistant Treasurer on the SCAP Board and Amber Baylor participating in Air Quality, Water Quality, Regulatory and Laboratory related initiatives. Staff has invited Steve Jepsen, SCAP Executive Director to attend the March SOCWA Board Meeting to review the Report 2020 information.

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ENVIRONMENTAL COMPLIANCE

SOCWA Research Plan Update

SOCWA staff and principal investigator, Dr. Phillip Gedalanga, provided the San Diego Regional Water Quality Control Board with research updates related to the HF183 research. HF-183 is a marker for human fecal material but the marker has also been found in other warm-blooded animals. The EPA released Method 1696 for use in March 2019. The SOCWA funded research optimization of the 1696 method is complete, and the method is now being tested on environmental matrices. The results presented to the Regional Board illustrate recycled water has two orders of magnitude of dead cells compared to live cells with the additional treatment step in the EPA Method 1696 for HF-183. The State and Regional Water Quality Control Boards have regulatory discretion to adopt water quality standards based on protection of public health. The next phase of the research is to validate the SOCWA research method with participating laboratories. The Regional Board is committed to working with SOCWA on the developing method to accurately reflect the risk to public health when promulgating water quality standards.

Salt and Nutrient Management Plan Contract Updated

At the November 7, 2020 SOCWA Board of Director's meeting, the SOCWA Board authorized additional funds related to the scope and cost expansion of the Wildermuth Environmental contract for SOCWA PC12 members compliance with the 2018 Recycled Water Policy. During the intervening period, the Wildermuth Environmental consulting firm was acquired by West Yost. A new contract that includes the previous budgeted monies plus additional authorized funds was issued to West Yost in the amount of \$238,815.

A Note of Thanks from SOCWA's General Manager

2020 is a year we won't soon forget.

But as I tell my staff, we must focus on the mission ahead of us, even in the face of extraordinary adversity. In 2020, the SOCWA team stepped up in a major way to carry out our mission of protecting public health and the environment.

- **Fiscal Strength & Transparency:** SOCWA was awarded the Certificate of Achievement in Excellence from the Government Finance Officers Association of the United States and Canada (GFOA). It is the non-profit's highest honor for financial reporting.
- **Infrastructure Development:** Work began on millions of dollars of vital projects to renew and modernize key treatment facilities that protect oceans, canyons and creeks.
- **Water Production:** SOCWA's facilities produced 4,222 acre-feet of recycled water for member agencies and their irrigation needs through the month of October 2020. That's enough to save 1.3 *billion* gallons of domestic drinking water supplies.
- **COVID Studies:** SOCWA participated in national studies that examined the connection between wastewater and COVID in local communities. These studies help determine virus prevalence in the absence of widespread testing.

Most of all, I am proud of our staff. Wastewater treatment does not rest. It is an essential, 24/7/365 operation. Our crews continue to do an extraordinary job while facing numerous, and often simultaneous, crises.

The coming year brings hope. In January 2021, SOCWA celebrates its 20th anniversary, and as we prepare to enter our third decade of service to South Orange County, we're eager to bring forward vital new infrastructure projects and continue to be of value to the region.

We wish you all the joy of renewal in this New Year. Please feel free to contact me at bburnett@socwa.com or (949) 234-5420.

Sincerely,

Betty Burnett
General Manager, SOCWA

LEADERSHIP @ SOCWA

Erdman, Collings Selected as SOCWA Board Leadership

At its October 2020 meeting, the SOCWA Board of Directors unanimously selected Dennis Erdman as its Chair and Matt Collings Vice Chair for the 2021 year.

Director Erdman previously served as Vice Chair and is an elected board member at the South Coast Water District.

Director Collings serves as the Assistant General Manager at Moulton Niguel Water District and has served on the SOCWA board for the past several years.

Congratulations to both directors Erdman and Collings.

SOCWA Recognized for Financial Reporting, Transparency Excellence



The Government Finance Officers Association of the United States and Canada (GFOA) has awarded the Certificate of Achievement for Excellence in Financial Reporting to SOCWA for its comprehensive annual financial report (CAFR) for the fiscal year ended June 30, 2019.

It is the non-profit's highest honor for financial transparency and full disclosure. [Continue reading here.](#)

OPERATIONS SPOTLIGHT

SOCWA Saves Energy to Help Local Homes, Businesses



As temps soared this past fall, SOCWA's forward-thinking energy plans helped save enough power to run about 3,000 local homes.

The wastewater agency's cogeneration engines helped maintain grid stability during the

extreme heat waves. These sustainable energy engines, installed in 2018, use a natural gas byproduct of the wastewater treatment process instead of traditional power. When in use, the cogeneration engines save between 1.0-1.5 megawatts of energy each day - enough to power up to 1,500 homes.

During extreme heat, SOCWA also collaborated with utilities and regulators to run standby generators to power its facilities, preserving energy to keep the lights on for an additional 1,500 homes.

The collective effort helped local utilities ensure homes and businesses had necessary power and avoid rolling blackouts.

"I cannot emphasize how much your efforts to curtail energy kept the grid operating throughout the day," said SDG&E Representative Christopher Nanson. "Because of the support from our region's industrial and large commercial customers, we would not have been as successful in curtailing the load and keeping the lights on and the air conditioners running."

COVID-19 UPDATE

SOCWA Participates in COVID-19 Research



As a leader in research and collaboration, SOCWA has engaged in multiple partnerships to provide science and data regarding SARS-COV-2 (COVID-19) that is found in wastewater.

SOCWA's environmental team collaborated with UCLA to detect prevalence of the virus in the region during the summer of 2020. A second study is being conducted with South Coast Water District (SCWD) and the Orange County Health Care Agency (OCHCA) to study (and potentially catch) outbreaks at sewer gathering points before symptoms manifest in the community. Early in 2020, SOCWA also partnered with MIT as part of a nationwide study on how wastewater can be a useful source of monitoring the virus in local communities.

According to the CDC, wastewater can be an early indicator of community spread. SOCWA is doing its part to provide data, science and leadership around this important issue.

LOSS TO THE COMMUNITY

Director Ray Miller Passes in 2020

It is with great sadness that SOCWA acknowledges the loss of longtime SOCWA Director Ray Miller. Mr. Miller was an integral part of the water and wastewater community and dedicated his career to many organizations including SOCWA. Mr. Miller was a General Manager at South Coast Water District, Board Member of the California Association of Sanitation Agencies (CASA), Founder of the Southern California Alliance of Publicly Owned Treatment Works (SCAP) and an active leader with both the American Waterworks Association and OC Water Association.

SOCWA is grateful for the years of service from Mr. Miller. Our deepest condolences to his family and friends.

PERSONNEL SPOTLIGHT

Employees Take Top Awards Locally and Statewide



SOCWA employees shine at the 2019 awards given by our local Santa Ana River Basin Section (SARBS) of the industry respected Clean Water Environment Association (CWEA).

JB Latham Plant Operator Bob Kallberg has outdone his previous awards, winning Operator of the Year and continuing on to win third place for the statewide award. The chapter also recognized Gage Gesiriech as Mechanical Technician Person of the Year and Katie Greenwood as Runner Up P3S Person of the Year.

Congratulations to Bob, Gage and Katie for the well deserved recognition of their hard work and dedication.

These awards go on top of the JB Latham Plant being named "Plant of the Year" in 2018.

MEMBER SPOTLIGHT

Santa Margarita Water District Dedicates Trampas Reservoir



After 15 years of planning, and two and a half years of construction, the Santa Margarita Water District (SMWD) officially opened and dedicated the newest, largest, recycled water reservoir in the OC region. The 1.6 billion gallon reservoir, paired with two existing reservoirs, will store nearly all of the recycled water produced by the district, greatly improving water supply during the hot California summer months.

"The Trampas Dam ensures our water supplies are resilient and guarantee we are excellent stewards of our imported water supply," said Board President Betty Olson at a socially distanced opening ceremony and dedication. With special accolades given by the California State Water Resources Control Board, this innovative project helps SMWD toward their goal of zero discharge to the ocean. You can watch the full Dedication Ceremony on [SMWD's Facebook](#) or learn more about the history of the dam in this [Youtube video](#). Congratulations to the Board, Staff and members of Santa Margarita Water District.

[Take a Virtual Tour of the Trampas Canyon Dam & Reservoir](#)

[Learn More about SOCWA](#)

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Memorandum

DATE: January 6, 2021
TO: Betty Burnett, General Manager
FROM: Sean Peacher, Environmental Compliance Safety Risk Manager
RE: SOCWA Fourth Quarter 2020 Quarterly Safety Program Update

Notable Items in the Fourth Quarter 2020:

- 4th Quarter 2020 – Complete Annual Review/Update of the SOCWA Safety Manual, release updated 2020/2021 electronic version to Employees including summary of recent changes
- 4th Quarter 2020 – Prepare 2021 Annual SOCWA Safety Training Schedule (hard copy and Outlook Safety Calendar) for each SOCWA Department (includes online and classroom OSHA and CSRMA required trainings), contact safety trainers and schedule desired training dates
- 4th Quarter 2020 – Review of all 2020 SOCWA Safety Trainings scheduled for completion by SOCWA Employees by end of Calendar Year 2020 (Annual Safety Training Compliance Review)
- 4th Quarter 2020 – SOCWA EOC Activated on October 26, 2020 due to Silverado Fire and high winds; monitor media outlets as fire develops/spreads; communicate fire information received to SOCWA Employees; communication with SOCWA Contractors; Red Flag Warnings/Reminders
- 4th Quarter 2020 – SOCWA EOC activated daily due to rapidly changing situations and impacts from Corona Virus (Covid-19); SOCWA EOC activated at Minimal Level in Web EOC weekdays
- 4th Quarter 2020 – Emergency Protective Measures for Covid-19 – Information monitoring and gathering; research; correspondence/discussions; product ordering/tracking; attend web trainings and conference calls; determine PPE needs; actions for safety of SOCWA Employees and public
- 4th Quarter 2020 - Attend OC EOC Conference Calls on behalf of SOCWA; update SOCWA Management (OC EOC Re-Activated on 7/14/2020, weekly EOC calls resumed as of 7/16/2020)
- 4th Quarter 2020 – Attend WEROC Covid-19 Coordination Conference Calls on behalf of SOCWA
- 4th Quarter 2020 – Research/gather information needed; prepare notes for weekly SOCWA EOC/SOCWA Management Conference; provide SOCWA Management latest Covid-19 updates
- 4th Quarter 2020 – Continuously take stock of PPE available at SOCWA; check/maintain PPE supply lines with vendors and order additional PPE as needed; properly store/secure PPE on hand; distribute PPE to employees as needed (i.e. masks, respirators, hand sanitizers, gloves)
- 4th Quarter 2020 – Continuous implementation of SOCWA’s Covid-19 Exposure Control and Disease Preparedness Response Plan (Covid-19 ECP); carry out multiple responsibilities and authorities in SOCWA’s Covid-19 ECP including ensuring that the current Covid-19 ECP is fully implemented, relevant, current, and effective for SOCWA daily functions, meetings, and trainings
- 4th Quarter 2020 – Lead Emergency Preparation and Response activities for SOCWA; coordinate with SOCWA Management, SOCWA Operations and Maintenance, WEROC, Cities, Orange County EOC, and SOCWA Member Agencies; Activate SOCWA EOC as needed
- 4th Quarter 2020 – Purchase additional Automated External Defibrillators (AEDs) needed in additional locations at each SOCWA Facility; add AEDs to database utilized to manage/maintain AEDs within each treatment plant to improve CPR and Emergency Response Preparedness
- 4th Quarter 2020 – Teleconferences (based on availability) with safety professional for each of the three active construction projects at SOCWA; discuss safety-related and Covid-19 related matters
- 4th Quarter 2020 – Cancel/reschedule safety trainings as needed throughout quarter to ensure employee health/safety; Multiple revisions required on 2020 SOCWA Safety Training Schedule due to rapidly evolving Covid-19 pandemic; revise/reschedule external and internal safety trainers

- 4th Quarter 2020 - Annual Cal OSHA Confined Space Entry Rescue Refresher; hands-on rescue from space with use of rescue mannequin at each plant (Training Agenda created by SOCWA Safety Dept, training date planned/led by SOCWA O&M Supervisors/Departments at each plant)
- 4th Quarter 2020 – Quarterly SOCWA Safety Committee Luncheon - Cancelled (due to Social Distancing including required compliance with SOCWA’s Covid-19 Exposure Control Plan)
- 4th Quarter 2020 – Provide SOCWA New Employee Safety Orientation for three recently hired SOCWA Employees; review safety training plans, safety expectations, and safety culture; locate/assign safety trainings needed and provide information to enroll in trainings
- October 2020 – Provide 3rd Quarter 2020 Quarterly Safety Update to SOCWA General Manager
- October 2020 – Provide 3rd Quarter 2020 Quarterly Update to SOCWA Supervisors for the Employees they supervise of completed and overdue Safety Trainings (online and classroom)
- October 2020 – Attend annual CSRMA Sewer Summit (virtual conference in 2020; attend training tracks on Safety/Leadership, Management/Regulatory Compliance, Operations, and Stormwater)
- October 2020 – Attend CSRMA Webinar: “Leave Time for Employees During Covid-19: Making Sense of It All”; update SOCWA Management on most recent Covid-19 requirements
- 4th Quarter 2020 – Forklift and Other Mobile Equipment Training – Review training requirements (to ensure training can be completed safely due to Covid-19); discuss schedule and OSHA training requirements with internal SOCWA certified trainer; schedule/reschedule training dates; notify employees of specific individual scheduled training times; trainings held in November
- November 2020 – Attend CSRMA Webinar: “Verbal Judo” – Communication Skills Training – Professional development/people skills training for daily interaction and career development
- November 2020 – Cancelled 2020 Annual Respirator Quantitative Respirator Fit Testing (cancelled due to Covid-19 after reviewing safety and risk concerns over Calendar Year 2020)
- November 2020 – Attend WEROC Quarterly Planning Meeting (held remotely 4th Quarter 2020)
- November 2020 – Complete Quarterly Facility Safety Inspections at all SOCWA treatment plants; with social distancing measures in place (set up and lead meetings/inspections, e-mail employees with additional social distancing instructions, document inspections, prioritize hazards, assign responsibility, update tracking sheets for plants with repairs completed/pending, distribute)
- November/December 2020 – Discuss and review with WEROC the additional Covid-19 requirements put in place due to the previously CA Section 3205 Emergency Regulation that was proposed in November and passed on December 1st, 2020; notify SOCWA Management of the additional requirements/precautions for Employers required by the new standard
- December 2020 – Work with SOCWA Human Resources and SOCWA Legal Counsel to update SOCWA Covid-19 Exposure Control Plan to meet the new requirements of Section 3205
- 4th Quarter 2020 – Contract/schedule/coordinate additional Arc Flash Safety Training to be held for SOCWA Employees that have not yet received Arc Flash Training; training held in December
- December 2020 – Complete required Semi-Annual Competent Person Fall Protection Inspections of fall protection equipment utilized at SOCWA; coordinate/complete w/ Maintenance Supervisors
- December 2020 – Attend CSRMA Webinar: “Office of Administrative Law Approves Cal/OSHA Covid-19 Emergency Temporary Regulations”; update SOCWA Management on requirements
- December 2020 – Attend/complete ICS Training “Disaster Management for Water and Wastewater Utilities” with Texas A&M Engineering Extension Service (TEEX): 16-Hour Course
- 4th Quarter 2020 – Correspondence with Cal OES; provide documents requested from Cal OES for follow-up review of damages from 1/22/17 Storm Event and repairs completed; work with SOCWA Engineering to obtain information on requests where additional information requested
- 4th Quarter 2020 – Attend (online) OC EOC Winter Weather Workshop on behalf of SOCWA
- 4th Quarter 2020 – Review Third Quarter 2020 Near Miss Reports submitted; work with Supervisors at each plant as needed for action items required to address Near Misses
- 4th Quarter 2020 – Point of Contact for OCHCA CUPA Inspections for Hazardous Materials Compliance, Manage Cal EPA CERS website utilized by OCHCA to ensure SOCWA’s current environmental compliance with CUPA Requirements for storage of chemicals on facilities
- 4th Quarter 2020 – Correspondence and review for Incident Investigation Reports received from accidents involving SOCWA Employees and/or Contractors working on SOCWA Facilities
- 4th Quarter 2020 – Assist Engineering with SOCWA Contractor Safety as needed (document preparation/review, meetings, correspondence, research, field visits for construction activities)
- 4th Quarter 2020 – Further review and correspondence with SOCWA O&M and SCADA/Electrical Staff for fixed gas detection improvements; provide updates on progress of repairs at each plant

- 4th Quarter 2020 – Continuously assign, track, and document all safety trainings completed by SOCWA employees in each SOCWA Department (online trainings and classroom trainings)
- 4th Quarter 2020 – Track and monitor for any possible recently implemented Cal OSHA Standards, Federal OSHA Standards, or other regulations which require SOCWA to comply with
- 4th Quarter 2020 – Order/distribute weekly tailgate safety meeting documents/safety posters
- 4th Quarter 2020 – Manage SOCWA's online chemical database (review/approve SDSs new to SOCWA facilities, notify supervisors of new products, employee training, troubleshooting)
- 4th Quarter 2020 – Manage/track database used to monitor AEDs at each treatment plant; ensure proper care, maintenance, and recordkeeping of AEDs along with each SOCWA Chief Plant Operator; update SOCWA Employee's First Aid/CPR/AED Training Records within AED database
- 4th Quarter 2020 - Monitoring/maintenance/care/repair activities required for portable gas detection meters located at all three SOCWA plants (online equipment monitoring of alarms, calibration records, software updates, troubleshooting, maintenance, requests for supplies)
- 4th Quarter 2020 – Correspondence with WEROC for rescheduling of ICS 300/400 Training; notify SOCWA Employees of training after rescheduled for SOCWA employees to register/attend
- 4th Quarter 2020 – Attend Environmental Compliance Dept Monthly Teleconference Meetings
- 4th Quarter 2020 – Participate in discussions for Water Utility Safety Managers Association (WUSMA) with colleagues in order to help improve the SOCWA Safety Program
- 4th Quarter 2020 – Determine safety product needs and order specialty safety items requested
- There were Zero OSHA Recordable Injuries to SOCWA Employees in the Calendar Year 2020
 - A total of Five OSHA Recordable Injuries occurred to SOCWA Employees in 2019
 - A total of Three OSHA Recordable Injuries occurred to SOCWA Employees in 2018

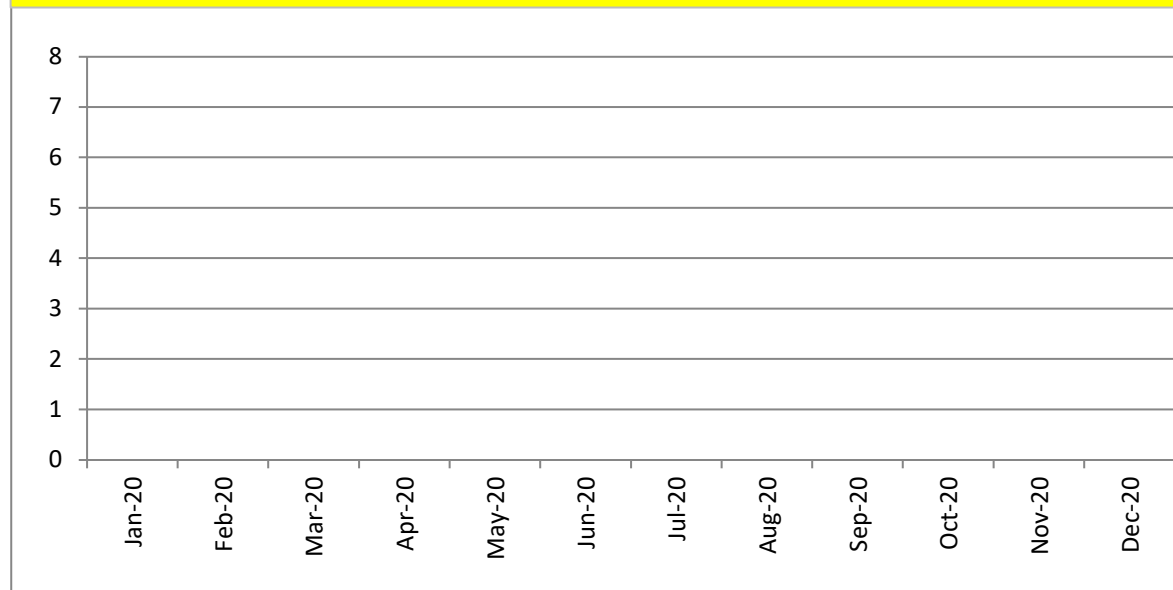
Safety in the First Quarter 2021 is scheduled to include:

- 1st Quarter 2021 – SOCWA EOC activated daily due to rapidly changing situations and impacts from Corona Virus (Covid-19); SOCWA EOC activated at Minimal Level in Web EOC
- January 2021 – Provide 4th Quarter 2020 Quarterly Safety Update to SOCWA General Manager
- January 2021 – Prepare and provide presentations (virtual meetings) with each SOCWA Department; Review 2021 Annual Safety Training Requirements/Schedule for each Department
- February 2021 – Fire Extinguisher Use Training (Annual Hands-On Training for Employees)
- March 2021 – Provide Heat Illness Training (Annual Cal OSHA Training for Employees)
- 1st Quarter 2021 – Provide Fall Protection Training (Hands-On Training, some O&M Employees)
- 1st Quarter 2021 – Provide Wildfire Smoke/Basic Fire Safety Training (some O&M Employees)
- 1st Quarter 2021 – Monitoring and data gathering for (Covid-19); research; review information received via e-mail; attend web trainings; attend conference calls; logistics; correspondence
- 1st Quarter 2021 – Emergency Protective Measures for Covid-19 – Meetings, information research, discussions, product ordering/tracking, protection of SOCWA Employees and the public
- 1st Quarter 2021 – Lead Emergency Preparation and Response activities for any events requiring emergency response; coordinate with SOCWA Management, SOCWA Operations, WEROC, Cities, Orange County EOC, and SOCWA Member Agencies; activate SOCWA EOC if needed
- 1st Quarter 2021 – Complete Quarterly Facility Safety Inspections at all SOCWA treatment plants; with social distancing measures in place (set up/lead meetings/inspections, e-mail employees with additional social distancing instructions, document inspections, prioritize hazards, assign responsibility, update tracking sheets for plants with repairs completed and pending, distribute)
- 1st Quarter 2021 – Quarterly SOCWA Safety Committee Luncheon (invite attendees, prepare agenda, get items needed for meeting, lead meeting/document meeting, distribute information)
- 1st Quarter 2021 – Conduct/complete updated noise levels studies of SOCWA treatment plants
- 1st Quarter 2021 – If determined safe to do so (due to Covid-19 and SOCWA's Covid-19 ECP), reschedule/coordinate/attend Competent Person Fall Protection Training with CSRMA at SOCWA; provided by CSRMA Trainer (previously cancelled/delayed due to Covid-19 Pandemic)
- 1st Quarter 2021 - Coordinate Office Safety Assessments of JBL Admin Offices (to be completed by third-party); previously delayed due to Covid-19; review recommendations and work with SOCWA Employees on implementing recommendations of assessment once completed
- 1st Quarter 2021 - Review 4th Quarter 2020 Near Miss Reports at time reports submitted; work with Supervisors at each plant as needed for action items required to address Near Misses
- 1st Quarter 2021 – Order/distribute weekly tailgate safety meeting documents/safety posters

- 1st Quarter 2021 – Work in progress for action items/recommendations involving CSRMA
 - CSRMA's SMART SOP System - Requirements, review SOCWA SOPs, work on CSRMA required updates to SMART SOP System, upload SOCWA SOPs to SMART SOP format
 - Obtain recommended products from results of Ergonomics Evaluations of SOCWA employee workstations by third party consultant (for employees in office currently)
 - Research for possible SOCWA Health & Wellness Program for SOCWA Employees
- 1st Quarter 2021 – Follow-up correspondence internally and with Cal OES for damages to SOCWA facilities from the February 13th - February 15th Storm (AWMA Road damages)
- 1st Quarter 2021 – Update DHS web database including specific SOCWA facility improvements completed recently to improve site security on SOCWA facilities; review/update periodically
- 1st Quarter 2021 – Attend Weekly Construction Progress Meeting (attendance based on availability) for the construction projects taking place presently at each of the SOCWA facilities
- 1st Quarter 2021 – Teleconferences with safety professional for each of the three active construction projects at SOCWA; discuss safety-related and Covid-19 related matters
- 1st Quarter 2021 – Further review and correspondence with SOCWA O&M and SCADA/Electrical Staff for fixed gas detection improvements; track repairs and improvements
- 1st Quarter 2021 – Track and monitor for any possible recently implemented Cal OSHA Standards, Federal OSHA Standards, or other regulations which require SOCWA to comply with
- 1st Quarter 2021 – Continuously assign, track, and document all safety trainings completed by SOCWA employees in each SOCWA Department (online trainings and classroom trainings)
- 1st Quarter 2021 – Provide SOCWA New Employee Safety Orientation for any recently hired SOCWA Employees; review safety training plans, safety expectations, and safety culture; locate/assign safety trainings needed and provide information to enroll in trainings
- 1st Quarter 2021 – Determine safety product needs and order specialty safety items needed
- 1st Quarter 2021 – Contact OCHCA in regard to 2021 CUPA Inspections for Hazardous Materials
- 1st Quarter 2021 – Manage CERS website to ensure SOCWA's Environmental Compliance with CUPA Requirements for storage of chemicals at SOCWA facilities; complete required annual CUPA submittals to OCHCA including employee training plans and emergency response plans
- 1st Quarter 2021 – Correspondence and review any Incident Investigation Reports received from accidents involving SOCWA Employees and/or Contractors working on SOCWA Facilities
- 1st Quarter 2021 - Contact OCFA in regard to timeframe for completion of 2021 Annual Life and Safety Inspections at all three SOCWA Treatment Plants; lead inspections for SOCWA facilities
- 1st Quarter 2021 – Manage SOCWA's online chemical database (review/approve SDSs new to SOCWA facilities, notify supervisors of new products, employee training, troubleshooting)
- 1st Quarter 2021 – Manage/track database utilized for Automated External Defibrillators (AEDs) used at each treatment plant; ensure proper care, maintenance, and recordkeeping of AEDs
- 1st Quarter 2021 - Monitoring/maintenance/care/repair activities required for portable gas detection meters located at all three SOCWA plants (online equipment monitoring of alarms, calibration records, software updates, troubleshooting, maintenance, order consumables)
- 1st Quarter 2021 – Attend Information Technology Lunch and Learn Trainings (once resumed)
- 1st Quarter 2021 – Attend (virtual) Environmental Compliance Department Monthly Meetings
- 1st Quarter 2021 – Attend Chief Plant Operator Monthly Meetings (once resumed); provide update
- 1st Quarter 2021 – Participate in WUSMA discussions to help improve SOCWA Safety Program
- 1st Quarter 2021 – Assist CPOs in completing Quarterly Code 2 Emergency Drills upon request
- 1st Quarter 2021 – Assist Engineering with SOCWA Contractor Safety as needed (document review, attend meetings, correspondence, research, field visits for construction activities)

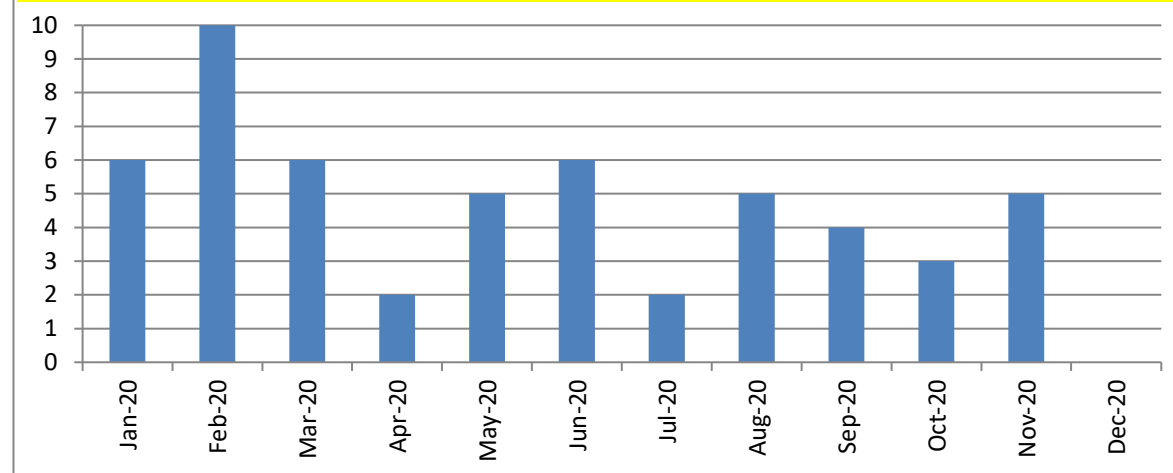
SOCWA SAFETY UPDATE - JANUARY 6, 2021

OSHA RECORDABLE INJURIES



	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
OSHA RECORDABLE INJURIES	0	0	0	0	0	0	0	0	0	0	0	0

NEAR MISS REPORTS



	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20
NEAR MISS REPORTS	6	10	6	2	5	6	2	5	4	3	5	0

SAFETY TRAINING

TRAINING TOPIC	ATTENDANCE
October/November '20 - Forklift Training and Additional ICS Training	95%
September '20 - CPR/First Aid/AED Training (Refresher and Initial)	95% (all SOCWA employees)
August '20 - Annual Audiometric Hearing Testing and Training	100%
July '20 - Annual Fire Extinguisher Use Training (Additional training dates pending)	75%
June '20 - Annual 8-HR HAZWOPER Refresher Training (Covid-19 ECP Compliant)	95%
May '20 - Make-Up Heat Illness Training (Completed remotely due to Covid-19)	95% (including make-up training)
Apr '20 - Annual Bloodborne Pathogen Training (Completed remotely due to Covid-19)	95% (all SOCWA employees)
Mar '20 - Annual Heat Illness Training	95% (including make-up training)
Feb '20 - Active Shooter/Workplace Violence Training	95%
October '19 - Fall Protection Training, Additional ICS Training, and Spill Training	90%
September '19 - Wildland Fire Training and Additional CPR/First Aid/AED Training	90%
Aug '19 - Initial Confined Space Entry Rescue and Additional Active Shooter Training	95%
July '19 - Annual Fire Extinguisher Training	95%
June '19 - Annual Confined Space Entry Rescue Refresher Training	95%
April '19 - Annual HAZWOPER Refresher Training (8-Hour)	95%
March '19 - Annual Respirator Fit Testing and PPE Use Training	100%
Feb '19 - Annual Bloodborne Pathogens Training and Additional Arc Flash Training	95%
December '18 - Annual Defensive Driving/Distracted Driving/DUIs Training (w/ CHP)	100%
October '18 - Crane Safety	100%
September '18 - Silica Safety Training	100%
August '18 - Fire Awareness Safety for Field Personnel and Lockout/Tagout Training	100%
March '18 - CPR/First Aid/AED Training	100% (all SOCWA employees)
January '18 - Respiratory PPE Training/Fit Testing and Additional ICS Training	90%
October '17 - Forklift Training / Certification	100%
September '17 - Active Shooter/Workplace Violence Training	100%
July/August '17 - Spill Response Training (hands on training)	100%
May '17 - Safety Culture Training	100%
March '17 - Fall Protection Training and CPR, First Aid, AED Training	100%
January '17 - Lockout/Tagout Training and Confined Space Rescue Practice/Training	100%
October '16 - Confined Space Awareness/Entry Rescue Training and Forklift Training	100%
May '16 - Entry Level NIMS/ICS Training and Heat Illness Training	100%
February '16 - Biomechanics/Ergonomics Training and Bloodborne Pathogen Training	100%
Oct '15 and Jan '16 - Initial Confined Space Entry Rescue (3-day trainings)	100%
November '15 - Annual Hearing Testing and Laboratory Safety Training	100%
September '15 - Pre-Storm Workshop, Arc Flash Training, and Forklift Training	100%
August '15 - Fire Prevention for Water Utility Field Staff and Disaster Cost Recovery Training	100%
July '15 - Initiate additional NIMS/ICS Training and Water and Power Resiliency Workshop	Ongoing
June '15 - Initial Confined Space Awareness and Non-Entry Rescue Training	100%

Summary of Work-Related Injuries and Illnesses

Note: You can type input into this form and save it.
 Because the forms in this recordkeeping package are "fillable/writable" PDF documents, you can type into the input form fields and then save your inputs using the free Adobe PDF Reader.

Form approved OMB no. 1218-0176

All establishments covered by Part 1904 must complete this Summary page, even if no work-related injuries or illnesses occurred during the year. Remember to review the Log to verify that the entries are complete and accurate before completing this summary.

Using the Log, count the individual entries you made for each category. Then write the totals below, making sure you've added the entries from every page of the Log. If you had no cases, write "0."

Employees, former employees, and their representatives have the right to review the OSHA Form 300 in its entirety. They also have limited access to the OSHA Form 301 or its equivalent. See 29 CFR Part 1904.35, in OSHA's recordkeeping rule, for further details on the access provisions for these forms.

Number of Cases			
Total number of deaths	Total number of cases with days away from work	Total number of cases with job transfer or restriction	Total number of other recordable cases
0	0	0	0
(G)	(H)	(I)	(J)

Number of Days	
Total number of days away from work	Total number of days of job transfer or restriction
0	0
(K)	(L)

Injury and Illness Types			
Total number of ... (M)			
(1) Injuries	0	(4) Poisonings	0
(2) Skin disorders	0	(5) Hearing loss	0
(3) Respiratory conditions	0	(6) All other illnesses	0

Post this Summary page from February 1 to April 30 of the year following the year covered by the form.

Public reporting burden for this collection of information is estimated to average 58 minutes per response, including time to review the instructions, search and gather the data needed, and complete and review the collection of information. Persons are not required to respond to the collection of information unless it displays a currently valid OMB control number. If you have any comments about these estimates or any other aspects of this data collection, contact: US Department of Labor, OSHA Office of Statistical Analysis, Room N-3644, 200 Constitution Avenue, NW, Washington, DC 20210. Do not send the completed forms to this office.

Establishment information

Your establishment name So Orange County Wastewater Authority

Street 34156 Del Obispo Street

City Dana Point State CA Zip 92629

Industry description (e.g., *Manufacture of motor truck trailers*)
Wastewater Treatment Plant

North American Industrial Classification (NAICS), if known (e.g., 336212)

Employment information (If you don't have these figures, see the Worksheet on the next page to estimate.)

Annual average number of employees 60

Total hours worked by all employees last year 113987

Sign here

Knowingly falsifying this document may result in a fine.

I certify that I have examined this document and that to the best of my knowledge the entries are true, accurate, and complete.

[Signature] DIRECTOR OF OPERATIONS
 Company executive Title

Phone 949-234-5402 Date 1/27/21

Save Input



Engagement with State Water Board:

- ELAP
- PFAS
- SSS WDR reopening
- COVID-19 challenges



Engagement with SCCWRP:

- Exfiltration
- Bio-stimulatory/Bio-integrity (Nutrient) Policy

Presentations Provided:

- CASA Winter Conference Roundtable host for:
 - Exfiltration and Homeless Issues
 - CARB EICG/CTR “Hot Spots”
- BACWA Collection Committee – Exfiltration and the San Diego Investigative Order
- SCCWRP Webinar on Exfiltration
- CWEA/SWB Webinar on Exfiltration
- CWEA 2020 Virtual Conference PFAS Summit
- CSRMA/DKF Solutions on Exfiltration
- CSRMA/DKF Solutions on Stormwater Diversions to Sewer

Surveys Conducted:

- Automated Maintenance Management Systems
- Smoke Testing Best Practices

Welcome New Members!

Rincon Water

Smart Cover

Dukes Root Control

Comment Letters



- ✓ DTSC Building Vapor Intrusion from Sanitary Sewers
- ✓ SCAQMD AER Source Test Requirements
- ✓ OPC Strategic Plan Ocean Discharge Limitations
- ✓ OEHHA AB 2588 Toxic Emission Inventory
- ✓ CARB Reporting of Criteria Air Pollutants
- ✓ ELAP Lab Accreditation System Regulations (x2)
- ✓ CARB EICG and CTR “Hot Spots”
- ✓ SCAQMD Rule 1179.1 Biogas Fueled POTW Facilities
- ✓ PFAS Sampling Order Extension Request

The CWSP met at Pardee Dam in March for their annual strategic planning meeting



The 2020 Clean Water Summit Partners (CWSP) Priorities:

Water High Priority

- COVID-19
- Coastal Discharge Ban/Recycled Water Mandates
- PFAS/PFOA
- Exfiltration
- Toxicity Provisions
- Nutrients

Water Medium Priority

- SSS WDR
- ELAP
- Microplastics
- Ocean Acidification Action Plan
- 1211 Water Regulation
- Stormwater

Biosolids Priorities

- COVID-19
- SB 1383 Implementation
- CECs (PFAS/PFOA, Microplastics)
- Transportation/Fuel Credits for Biogas
- Office of Inspector General Biosolids Report Response
- Fire Reclamation Research

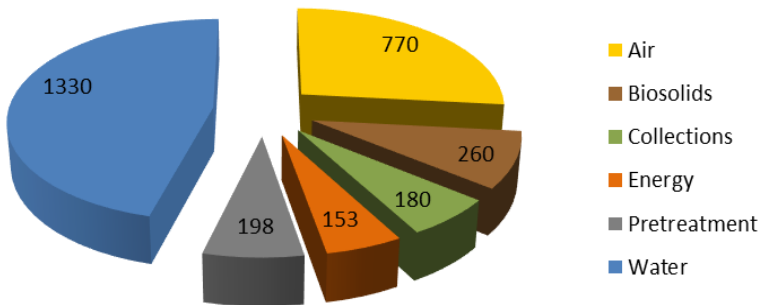




Committee Meetings Held:

- 11 Air Quality Committee Regular Monthly meetings
 - Numerous SCAQMD and CARB rule meetings
- 10 Water Committee meetings with CASA
 - One Ocean Outfall issues meeting
 - One General Water Committee meeting
 - Two PFAS workshops with the CWSP
- One Joint Collection Committee meeting with CASA (via Zoom)
- Three Pretreatment Committee sessions at CWEA P3S
- One joint Energy/Biosolids Committee meeting at the Rialto Anaergia Food Waste to Energy facility
- 10 Biosolids Committee meetings with CASA

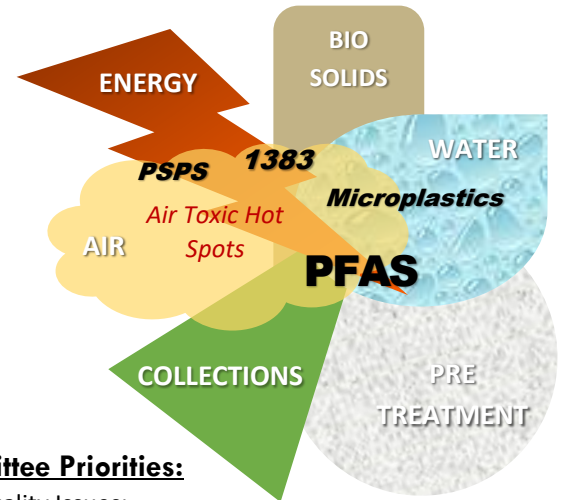
Over 2,800 Volunteer Hours in 2020!



Total: 2,852 Hours

Committee Meetings Planned:

- Air Committee will continue to meet monthly and as needed for specific rule/regulation advocacy
- Water Committee has planned and identified speakers for the following meetings/workshops:
 - Stormwater to sewer diversion case studies
 - Ocean outfall issues workshop number two
 - CWSP PFAS Workshop number three
 - Climate Resiliency – SWB 13267 Survey Workshop
- Collection Committee regular meetings, SCAP/CASA joint meeting and SSS WDR sub-committee meetings
- Pretreatment Committee meetings and participation at the CWEA P3S 2021 Virtual Conference
- Energy Committee – PSPS preparation, Energy Conservation Strategies, Community Choice Aggregation
- Biosolids Committee meetings and SCAP Biennial Biosolids Survey



Committee Priorities:

- Air Quality Issues:
 - AB 617 and AB 2588 Toxic Hot Spots
 - California Air Resources Board (CARB) Zero Emission Fleet Regulations
 - Public Safety Power Shutoffs (PSPS) Potential SCAQMD Rule Amendments
 - SCAQMD Proposed Rule 218.2 and 218.1 Continuous Emission Monitoring Systems (CEMS)
- Water Issues:
 - Toxicity Provisions
 - PFAS
 - Bio-stimulatory/Bio-integrity Provisions
 - Ocean Acidification and Hypoxia (Nutrients)
 - Microplastics
- Collection Systems Issues:
 - COVID-19
 - Exfiltration Theories
 - New Sanitary Sewer System Waste Discharge Requirements
 - Public Safety Power Shutoff (PSPS)
- Pretreatment Issues:
 - COVID-19
 - PFAS
 - Dental Office Category
 - Alkaline Hydrolysis
 - Steam Electric Power Discharges
 - Microplastics
- Energy Issues:
 - Public Safety Power Shutoff (PSPS)
 - Low Carbon Fuel Standard (LCFS)
 - Funding/Incentives
 - Over-generation and grid stability
- Biosolids Issues:
 - SB 1383 Short-Lived Climate Pollutant Reduction
 - AB901 Solids Waste Reporting Rule Implementation
 - PFAS
 - Biosolids Biennial Survey



PRIORITY ISSUE DESCRIPTIONS BY COMMITTEE

AIR QUALITY ISSUES

California Air Resources Board (CARB) – New Air Toxic Emissions Reporting Regulations

On November 19, 2020, the California Air Resources Board (CARB) amended two important air toxic emissions reporting regulations (i.e., the [CTR](#) and [EICG](#)). These amended regulations are intended to reduce air toxic emissions, enhance the public’s right to know and streamline statewide toxic emission reporting programs. As adopted, these **regulations** will require each waste sector to perform an extensive two-step process to quantify toxic emissions (i.e., wastewater treatment plants, landfills, composting and recycling facilities with air permits). This process requires all emission sources at a waste facility to be screened for a list of over 10,000 toxic compounds, including PFAS, isocyanate and halogenated PAH functional groups (*Note: the existing list contains only 177 toxic compounds*).

Although the regulations were adopted, CARB’s Board directed staff to address the following issues in a 15-day regulation amendment process:

- Require annual reporting only for chemicals with provisional health values¹
- Streamline phase-in for lower priority chemicals
- Evaluate reporting of lowest priority chemicals
- Ensure industry sector phase-in for medium and small air districts is implementable
- Adjust and phase in emissions threshold for medium and small air districts
- Minor corrections and clarifications to both regulations

Based upon feedback from Board member Mitchell, CARB staff was urged to work with the wastewater sector because, unlike the manufacturing sector, we cannot control the formulation of sewage. CARB staff agreed to:

- Consider CASA’s proposed sector-by-sector approach
- Review short vs. long term reporting requirements
- Provide adequate time to complete the statewide pooled two-step process

¹ OEHHA has indicated that provisional toxicity values for the expanded list of air toxics should be available in 2023.



CARB staff also agreed to review the applicability of municipal waste material recovery facilities and transfer stations. It appears that CARB may be willing to exclude these facilities, if waste is sorted quickly (i.e., to avoid decomposition).

Regardless of the 15-day changes, each waste facility or sector will need to perform a two-step process. Due to the lack of laboratory testing methods for the expanded list of toxics, CARB proposed an initial GC/MS scan of sector emission sources. Tentatively detected compounds from this scan would then be quantified during the second step of the process. Based on a preliminary screening by some of our members, we believe the two-step process will identify a list short list of toxic compounds (e.g., about 50). CASA recommends members to participate in a statewide pooled emission testing program, which will substantially reduce the cost of source testing the numerous emissions sources found at our wastewater treatment plants.

We believe that the 15-day changes will be finalized in early 2021, which will specify when each waste sector will be required to complete the two-step process. Based upon numerous conversations with CARB staff, we expect to have until 2026 to complete the required statewide pooled emission testing program. Upon adoption of the 15-day changes, SCAP will coordinate with CASA to discuss the implementation of the statewide testing program.

Public Safety Power Shutoffs (PSPS) - Updates and Potential SCAQMD Rule Amendments

California utility companies initiated precautionary [Public Safety Power Shutoffs \(PSPS\)](#) during late 2019. These are also known as de-energizations. During these events, utilities proactively turn off electrical equipment during gusty winds and dry conditions in effort to reduce the risk of electric utility infrastructure starting wildfires. The 2019 season of PSPS revealed critical impacts and necessary areas for improvement. In response, various legislative efforts, utility improvements, and oversight by the [California Public Utilities Commission \(CPUC\)](#) were initiated and implemented prior to the current fire season.

Water and wastewater agencies have experienced improved PSPS communication from utilities during this fire season. In addition, utilities have sponsored resiliency and preparedness workshops to improve PSPS awareness and preparedness. The improved communication has been helpful for agencies, but there are still concerns associated with local operating limitations and regulatory risk.

Emergency generators permitted in the South Coast Air District have an annual hour limit of 200 hours per year for emergency and non-emergency operation. In addition, emergency generators have hour limitations for maintenance and testing based on their engine emission tier. These limitations are primarily due to New Source Review (NSR) and emission offset requirements, and the local implementation of the CARB Statewide Air Toxics Control Measure (ATCM) for diesel engines. Since PSPS events can increase the frequency and duration of emergency operation at



water and wastewater facilities, the risk of exceeding these hour limitations also increases. As such, these operating limitations continue to be a concern for water and wastewater agencies.

Two legislative bills, SB 1099 (Dodd) and AB 2182 (Rubio), were also introduced earlier this year to reduce the risk of Public Safety Power Shutoffs (PSPS) to critical essential public services, such as water and wastewater services. The legislative timelines were abbreviated due to COVID-19 and these two bills did not move forward. In effort to address the remaining concerns, the bill sponsors discussed potential rule amendments with SCAQMD. The goal of this effort is to provide a regulatory pathway, in lieu of a variance, for agencies that have concerns with the hour limitations in their emergency generator permits.

The SCAP Air Committee is following this effort closely and will remain engaged during the regulatory process to advocate for regulatory options for SCAP members. The public rulemaking process to amend SCAQMD Rule 1470 and Rule 1110.2 will likely commence in the next few months. This process will require a CEQA analysis, public participation and an evaluation of the emission impacts. SCAQMD will need to offset emission increases that may result from increased generator operation. Consequently, older generators may be targeted for replacement if additional maintenance and testing hours are required. The Air Committee will strive to narrow the focus of the rule amendments to provide options for agencies impacted by PSPS events and minimize unintended consequences for members.

California Air Resources Board (CARB) Zero Emission Fleet Regulatory Update

California legislation has various long-term goals for air pollutant reductions, climate change targets, and public health goals that require aggressive emission reductions from mobile sources. In effort to achieve the state goals, the California Air Resources Board (CARB) continues to develop multiple regulatory efforts to transition to zero emission technologies, primarily in the mobile sector. These efforts will potentially impact on-road and off-road equipment and vehicles operated by water and wastewater agencies.

Governor Newsom recently issued an Executive Order ([N-79-20](#)) that may expand the recent efforts by CARB. The Executive Order lists very ambitious state goals and policy directives including the following:

- 100% of in-state sales of new passenger cars and trucks be zero emission by 2035
- 100% of medium and heavy-duty vehicles in the state be zero emission by 2045 for *all operations where feasible*, and by 2035 for drayage trucks
- The state transition to 100% zero emission off-road vehicles and equipment by 2035, where feasible



The California Air Resources Board (CARB) has several regulatory efforts that support the goals in the Executive Order, including the following:

- The ***Advanced Clean Truck Regulation***, adopted in June 2020, includes manufacturer sales mandates. This regulation also includes a one-time mandatory reporting requirement due in April 2021. SCAP members are required to report.
- The ***Advanced Clean Fleet Rule*** is in development. The next CARB workshop will be [December 9, 2020](#). This rulemaking effort will include Zero Emission Vehicle (ZEV) fleet standards and potentially include ZEV purchase requirements for public fleets. Draft language has not been developed yet, but CARB has phase in goals starting in 2024.
- The ***Mobile Source Strategy*** update is in process and highlights various concepts for different equipment types. CARB staff presented these concepts during an informational [webinar](#) in October.
- CARB has also initiated efforts to amend the ***Small Off-Road Engine Regulation*** and develop a ***Zero-Emission Forklift Regulation***

The Air Committee continues to track CARB’s regulatory activity and plans to collaborate with CASA as regulatory development progresses. There are multiple efforts in progress that are largely conceptual. As regulations are developed, the Air Committee will remain engaged and strive to ensure language is included to address operational feasibility and availability concerns for our sector.

If there are any questions or air quality concerns, please feel free to contact the Air Quality Committee:

- David Rothbart (Committee Chair) - drothbart@lacsdc.org
- Alison Torres (Co-Vice Chair) - torresa@emwd.org
- Randa AbuShaban (Co-Vice Chair) - rabushaban@ocsd.com

The SCAP Air Quality Committee usually meets monthly on Tuesdays from 10:00 am to 12:00 pm at LACSD, 1955 Workman Mill Road, Whittier, CA. A call-in number is provided. During the COVID – 19 Stay at Home order we will conduct meetings with Zoom. If you do not have Zoom you can participate with a provided call in number.

To join the Air Quality Committee, please email a request to info@scap1.org



WATER ISSUES

Toxicity Provisions

The Toxicity Provisions were adopted by the SWRCB on December 1, 2020. The Toxicity Provisions include the Test of Significant Toxicity (TST) which is problematic for freshwater dischargers with *Ceriodaphnia dubia* as the test species due to a high rate of non-toxic water being identified as toxic (false positive). The TST is an un-promulgated method and is the crux of the SCAP litigation with EPA. We have been engaging the Water Board to alter this element of the Toxicity Provisions without success. It is our understanding that there is significant pressure from EPA to include the TST in the Toxicity Provisions. One concession that has been made is to include a study on the accuracy of the TST with *Ceriodaphnia dubia*. SCCWRP will be conducting the study with funding from the SWRCB and voluntary funding or in-kind services from the POTW community. The goal is a 50/50 funding (in-kind services) split for a two-million-dollar study. Although this is a positive step, there are still many details to be worked out and how the results of the study would influence compliance elements of the study is unclear.

Environmental Laboratory Accreditation Program (ELAP)

The SWRCB has adopted new ELAP regulations include the TNI accreditation standard. The Office of Administrative Law (OAL) has reviewed and approved the regulations. They will become effective on January 1, 2021. TNI is administratively burdensome and does not change the laboratory methods or improve lab result quality. TNI is a quality system more appropriate for large commercial labs. Stakeholders developed a California Quality Management System (CA QMS) which included elements of TNI without burdensome administrative requirements that are redundant for public agencies. The Environmental Laboratory Technical Advisory Committee (ELTAC) voted in favor of using CA QMS multiple times, but ELAP staff elected to disregard the recommendation. It is anticipated that implementing and maintaining TNI will require one half to one full time employee in a small to medium sized lab.

PFAS

PFAS is definitely an important issue now. SWRCB has significantly lowered the notification limits, causing several water agencies to turn off supply wells.

See the Pre-Treatment Section for a detailed description of the SWRCB PFAS sampling order.



SCAP continues to work with consumer protection agencies emphasizing that PFAS is a product stewardship issue and should not be controlled by water treatment when manufacturing and distribution continues worldwide. There has been some progress made with this initiative.

Bio-stimulatory/Bio-integrity Provisions plus Ocean Acidification and Hypoxia

Both of these emerging issues are in the science data gathering phase. Early indications are that the policies will result in low nitrogen and phosphorus limits for POTWs. We are monitoring these closely with a focus on making sure the science is robust and accurate or at a minimum appropriately applied.

If there are any questions or concerns, please feel free to contact the Water Committee:

Lisa Haney (Committee Chair) – haney@irwd.com

Lyndy Lewis (Committee Co-Vice Chair) – llewis@wmwd.com

Amber Baylor (Committee Co-Vice Chair) - abaylor@socwa.com

To join the Collections Systems Committee, please email a request to info@scap1.org



COLLECTION SYSTEMS ISSUES

Sanitary Sewer System Waste Discharge Requirements

The SSS WDR is being re-opened since its first introduction in 2006. Discussions with the SWRCB staff on this initiative have been inclusive and very productive. We are anticipating a draft in January 2021. New elements of the SSS WDR will likely include:

- Climate Change/Resiliency considerations
- More detailed asset management/condition assessment requirements
- Focus on spill and spill volume reduction
- Operator certification/training requirements
- More enforceable requirements

Exfiltration

Theories of Exfiltration from sewer collection systems to MS4s continue to be an emerging issue. There are now several citizen suits citing Exfiltration as a source of human fecal bacteria in the environment. In response to the San Diego Region investigative order SCCWRP is conducting a five-year five-million-dollar study to identify and quantify sources of human fecal bacteria in the San Diego River watershed. Included in the SCCWRP study is an investigation of sewer exfiltration using tanks and pumps to circulate potable water through an isolated section of sewer and measuring the water loss, if any. SCAP is monitoring this effort closely.

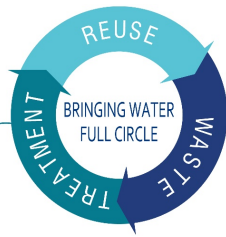
SCAP is and will continue to be highly engaged with Exfiltration issues and we are closely working with CASA and NACWA. We have made numerous presentations and continue to network with academia and collection system professionals to improve our knowledge and messaging.

If there are any questions or concerns, please feel free to contact the Collections Committee:

Dindo Carrillo (Committee Chair) – dcarrillo@ocsd.com

Ralph Palomares (Committee Chair) – rpalomares@etwd.com

To join the Collections Systems Committee, please email a request to info@scap1.org



PRETREATMENT ISSUES

SCAP at the Annual CWEA Pretreatment, Pollution Prevention, and Stormwater (P3S) Conference

The P3S Conference was held in Long Beach on January 27-29, 2020. The SCAP Pretreatment Committee hosted a half-day session on the first day of the conference with two oral presentations and a “hot topics” roundtable discussion. The hot topics panel included large and small agencies, so the audience asked Pretreatment questions and received answers and perspectives from different Pretreatment Programs about their approaches to the posed situations and scenarios.

Alkaline Hydrolysis

AB 967 requires the Cemetery and Funeral Bureau within the Department of Consumer Affairs to regulate facilities that perform human alkaline hydrolysis in a manner substantially like crematoria. Applicants must have the necessary permits for business, including permits for sewer discharge if the Pretreatment Program requires a permit to discharge the hydrolysate to the sewer. The law went into effect on July 1, 2020.

COVID-19

Initially, many Pretreatment Programs delayed or scaled back inspection of Industrial Users to various degrees and observed the public health authorities’ guidance including social distancing, minimal number of people participating, hand washing, etc. during necessary inspections. As time passed, Pretreatment Programs adapted, and standard personal protective equipment and inspection practices were reviewed and adjusted. Some agencies are giving advance notice of inspections or are conducting virtual inspections.

Steam Electric Power Generating Category – 40 CFR 423

In 2020, EPA revised the regulation for flue gas desulfurization wastewater and bottom ash transport water. The new rule for indirect dischargers (those whose discharges passes through a POTW before receiving water) is effective October 13, 2023.

https://www.epa.gov/sites/production/files/2020-11/documents/2020_se_reconsideration_rule_implementation_webinar.pdf

Dental Office Category

The compliance date for dental offices discharging before July 2017 (Existing Sources) to comply with the Dental Office Category regulations was July 14, 2020, and the date to submit compliance reports (certification forms) was October 14, 2020. Existing Sources must install and maintain



dental amalgam separators, implement Best Management Practices, comply with reporting requirements, and maintain records if routinely applying or removing dental amalgam. Existing Sources may continue to use non-compliant amalgam separators for up to ten years from the date of installation; however, if the amalgam separator is replaced before ten years, the new separator must meet or exceed the minimum 95 percent removal efficiency. Dental offices that do not place or remove amalgam must certify that they are exempt. New Sources must either install compliant dental amalgam separators and meet the other requirements within 90 days of commencing discharge or certify that they are exempt. Pretreatment Programs are now sending follow-up letters to dental offices that have not submitted certification forms.

PFAS

In February 2020, the State Water Resource Control Board (SWRCB) lowered the Response Levels for PFOA to 10 ppt and for PFOS to 40 ppt based on a running four-quarter average. On July 9th, the SWRCB issued a General Order, and the 259 Publicly Owned Treatment Works (POTWs) with a design capacity of ≥ 1 million gallons per day (MGD) received their individual investigative orders thereafter. This order is colloquially referred to as the “PFAS Phase 3 Investigatory Order” or “Sections 13267 and 13383 Order.” SCAP coordinated and collaborated with the SWRCB, other associations, and agencies, and our collective input impacted positively the order that was issued. SCAP continues to collaborate with the Clean Water Summit Partners in working with the SWRCB and impacted agencies to begin the process of collecting the required sampling for 31 PFAS constituents for a year. Sampling is required to begin during the October - December 2020 quarter. On November 11th, SCAP submitted a request to the SWRCB for an extension for an additional 90 days to start the sampling. Cited reasons for the extension included the delay in receiving clarification from the SWRCB about the sampling, the ability of public agencies to obtain assistance for conducting this specialized sampling and analysis, challenges due to COVID-19, and the creation of a Sampling and Laboratory Analysis Plan template to help produce and report defensible data. Additionally, SCAP has developed a disclaimer letter to be uploaded with the sampling results and questionnaire. The intent of the disclaimer letter is to emphasize that the PFAS data derived from this effort has been done without EPA adopted standard methods and previous data included in the questionnaire has also been derived without EPA adopted standard methods and likely with methods differing from methods used in response to the order.

Other PFAS updates include the following: EPA is still implementing its 2019 PFAS Action Plan. EPA is developing analytical methods for non-drinking water matrices. To date, Congress has not finalized any changes to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) regulation, specifically the designation of PFAS as a “hazardous substance.” Due to the lack of formal actions at the federal level, various states are pressing ahead and adopting their own standards (e.g., limitations, notification levels, etc.) and requirements. Meanwhile, various technologies continue to be tested for removing PFAS from wastewater.



Other Issues

Microplastics, Harmful Algal Blooms/Nutrients, Toxicity, and Reservoir Augmentation (Indirect and Direct Potable Reuse) policy and regulations.

If there are any questions or concerns, please feel free to contact the Pretreatment Committee:

Mark Kawamoto (Committee Co-Chair) – kawamoto@ocsd.com

Larry Smith (Committee Co-Chair) – lsmith@lacsdsd.org

To join the Pretreatment Committee, please email a request to info@scap1.org

ENERGY ISSUES

Public Safety Power Shutoff (PSPS)

PSPS energy outages will test our emergency power systems and could jeopardize generator run time hour permit limits. SCAP is working with other partner agencies to provide a policy solution to increased generator runtime hours resulting from PSPS outages. Once solution may be to have PSPS events qualify as a State emergency.

Other Issues

- Community Choice Aggregation Coming to a City near You
- Low Carbon Fuel Standard (LCFS) Guidance for Low-Carbon Intensity Electricity
- Funding/Incentives
- Over-generation and grid stability

If there are any questions or concerns, please feel free to contact the Energy Committee:

Pietro Cambiaso (Committee Chair) – pcambias@ieua.org

Ray Bennett (Committee Co-Vice Chair) – bennett@irwd.com

Cynthia Carter (Committee Co-Vice Chair) – ccarter@lacsdsd.org

To join the Energy Committee, please email a request to info@scap1.org



BIOSOLIDS ISSUES

SB 1383 Short-Lived Climate Pollutant Reduction

On November 3, 2020, CalRecycle received a Notice of Approval of Regulatory Action from the Office of Administrative Law on SB 1383 Short-Lived Climate Pollutants regulations. The regulations are final and set to go into effect January 1, 2022. There were no substantive changes with respect to biosolids or the wastewater sector:

General Overview of Regulatory Requirements for the Wastewater Sector, including Biosolids:

1. Biosolids which are anaerobically digested and/or composted and land applied constitute a **reduction in landfill disposal**;
2. All other biosolids treated or managed in alternative ways, including beneficial land application, aerobic digestion (unless subsequently composted and land applied), incineration, pyrolysis, surface disposal, etc., is **considered landfill disposal**; and
3. Biosolids managed through alternative means may be considered as a reduction in landfill disposal, but the applicant must quantify reduced methane emissions.

SCAP will work with CASA to develop a white paper to articulate what the requirements are and how they will impact wastewater sector.

State Water Board General Order - Biosolids

With the adoption and implementation of SB 1383, there will be more reliance on the General Order (GO) for the land application of biosolids. SCAP will continue to work with CASA to support revisions to the GO for consistency with SB 1383. At this time the State Water Board is evaluating the order, but the agency is understaffed. There are three other GOs in the queue ahead of the biosolids GO which need to be revised. There is still no clear indication on when the biosolids GO review will be initiated.

Central Valley (CV) Salts

SCAP continues to work with CASA on monitoring CV-SALTS. Land application on sites in the central valley will need to comply with the Salts Control Program. Land application sites applying in the priority basins will need to comply with the Nitrate Control Program. For implementation of CV Salts, agencies are working to determine how to share the costs of the Prioritization and



Optimization study for salts and Management Zones for nitrate management. A draft workplan is available which characterizes salt fluxes, how effective existing controls are, and work is underway to determine the costs of compliance.

PFAS Phase 3 Order

SCAP members continue to support CASA during the Phase 3 Order that requires POTWs to sample influent, effluent, and biosolids for PFAS.

See the Pre-Treatment Section for a detailed description of the SWRCB PFAS sampling order.

If there are any questions or concerns, please feel free to contact the Biosolids Committee:

Tom Meregillano (Committee Co-Chair) – tmeregillano@ocsd.com

Christina Jones (Committee Co-Chair – christina.jones@lacity.org

Janet Samala (Active Committee Organizer) - janet.samala@lacity.org

To join the Biosolids Committee, please email a request to info@scap1.org

Agenda Item

7

Board of Directors Meeting

Meeting Date: February 4, 2021

TO: Board of Directors

FROM: Betty Burnett, General Manager

SUBJECT: SOCWA Board Workshop: Agency Presentations Future Use of SOCWA Services and Facilities

SUMMARY / BACKGROUND

The SOCWA Executive Committee met on November 10, 2020 and attached are prepared Minutes from that meeting. Out of the discussion at the meeting, the Executive Committee invites each agency to provide a presentation at the upcoming Board Workshop on the agenda for the February 4, 2021 meeting. The requested presentation from each agency would address the plans each agency has for their own planning and its relevance to their needs and use of SOCWA services and facilities into the future. The Workshop will allow the member agencies to share information about planning efforts and expectations and should include ideas that are conceptual as well as those efforts that are further along in a development cycle. Each presentation should stay within a ten-minute overview without detailed technical information.

Recommended Action: Information Item

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

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