

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

February 6, 2020
8:30 a.m.

THE BOARD OF DIRECTORS MEETING ROOM IS LOCATED AT 34156 DEL OBISPO STREET, DANA POINT, CA. THE ROOM IS WHEELCHAIR ACCESSIBLE. IF YOU REQUIRE ANY SPECIAL DISABILITY-RELATED ACCOMMODATIONS (I.E., ACCESS TO AN AMPLIFIED SOUND SYSTEM, ETC.), PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S BOARD SECRETARY'S OFFICE AT 949-234-5452 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING. THIS AGENDA CAN BE OBTAINED IN AN ALTERNATE FORMAT UPON WRITTEN REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY BOARD SECRETARY AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING.

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

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

Members of the public may address the board regarding an item on the agenda or may reserve this opportunity during the meeting at the time the item is discussed by the board. There will be a three-minute limit for public comments.

4. CONSENT CALENDAR

- A. Minutes of Board of Directors Meeting 1
 1. Board of Directors Meeting January 9, 2020

ACTION The Board will be requested to approve subject Minutes

AGENDA
 South Orange County Wastewater Authority
 Board of Directors Meeting
 February 6, 2020

PAGE NO

- B. Minutes of Executive Committee Meeting7
 1. Executive Committee Meeting April 16, 2019
- ACTION The Board will be requested to receive and file subject Minutes
- C. Minutes of Engineering Committee Meeting9
 1. Engineering Committee Meeting September 12, 2019
 2. Engineering Committee Meeting October 10, 2019
- ACTION The Board will be requested to receive and file subject Minutes
- D. Minutes of PC-15 Committee Meeting 15
 1. PC-15 Committee Meeting November 14, 2019
- ACTION The Board will be requested to receive and file subject Minutes
- E. Financial Reports for the Month of December 2019..... 17
 1. Summary of Disbursements for December 2019 (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 Information Item
- F. Fiscal Year 2018-19 Additional Cash Distribution to Member Agencies 36
- ACTION Staff recommends to the Board of Directors to authorize staff to proceed with distribution of the Additional Cash from Other Sources to the Member Agencies as presented.
- G. Operational Reports – December 2019 38
 1. Monthly Operations Report – December 2019
 2. Ocean Outfall Discharges
 3. Quarterly Report on Key Operational Expenses
 4. Beach/Ocean Monitoring Report
 5. Recycled Water Report
 6. Pretreatment Report – January 2019

AGENDA

South Orange County Wastewater Authority
Board of Directors Meeting
February 6, 2020

ACTION The Board will be requested to receive and file the December 2019 Operations Reports

H. Capital Improvement Program Status Report 92

ACTION The Board will be requested to receive and file report(s)

5. GENERAL MANAGER’S REPORTS

A. Small Capital Contract for CTP Roof Fan Installation Project by SS Mechanical Construction [PC-15] 106

ACTION Staff recommends the Project Committee No. 15 Board of Directors to authorize the General Manager to execute a construction contract for installing roof fans at CTP with SS Mechanical Construction in the amount of \$61,581.25.

B. Small Capital Contract for RTP Drain Slip Lining by Performance Pipeline [PC-17] .. 108

ACTION Staff recommends the Project Committee No. 17 Board of Directors authorize the General Manager to execute a construction contract for slip lining the RTP drain line with Performance Pipe at a cost of \$119,985.00.

C. Southern California Association of POTW’s (SCAP) Update 110

ACTION Information Item

D. Request from CASA Renewable Resources for Research Funding Participation 120

ACTION Board of Directors to authorize expending \$2,000 in support of CASA technical review of the OEHHA recommendations on PFAS response and notification levels.

E. Resolution 2020-03, A Resolution of the South Orange County Wastewater Authority Establishing a Disaster Purchasing Policy 133

ACTION Staff recommends that the Board of Directors adopt Resolution 2020-03, A Resolution of the South Orange County Wastewater Authority Establishing a Disaster Purchasing Policy.

F. General Manager’s Status Report 146

ACTION Information and discussion

6. OTHER MATTERS

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

AGENDA

South Orange County Wastewater Authority
Board of Directors Meeting
February 6, 2020

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.]

7. CLOSED SESSION

A. Closed Session Pursuant to Government Code Section 54957

1. Public Employee Performance Evaluation – Title: General Manager

ADJOURNMENT

THE NEXT SOCWA BOARD MEETING
FEBRUARY MARCH 5, 2020

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

DRAFT

Board of Directors

January 9, 2019

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors Meeting was held on January 9, 2020, at 8:30 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Board of Directors were present:

DAN FERONS	Santa Margarita Water District	Director
DENNIS ERDMAN	South Coast Water District	Director
TONI ISEMAN	City of Laguna Beach	Director [exited 10:35 am]
RAY MILLER	City of San Juan Capistrano	Alternate Director
KATHRYN FRESHLEY	El Toro Water District	Director
MATT COLLINGS	Moulton Niguel Water District	Alternate Director
FERNANDO PALUDI	Trabuco Canyon Water District	Alternate Director
DOUG REINHART	Irvine Ranch Water District	Director
MIKE DUNBAR	Emerald Bay Service District	Director

Absent:

DAVE REBENS DORF	City of San Clemente	Director
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Staff Present:

BETTY BURNETT	General Manager
MARY CAREY	Finance Controller
JASON MANNING	Director of Engineering
JIM BURROR	Director of Operations
AMBER BAYLOR	Director of Environmental Compliance
DAVID BARANOWSKI	Senior Engineer
RONI GRANT	Associate Engineer
KONSTINTIN SHILKOV	Senior Accountant
NADYN KIM	Accountant
ANNA SUTHERLAND	Accounts Payable
JEANETTE CONTINOLA	Procurement & Contracts Administrator
DANITA HIRSH	Administrative Assistant

Also Present:

ADRIANA OCHOA	Procopio Law Firm
MIKE GASKINS	El Toro Water District
DENNIS CAFFERTY	El Toro Water District
DON FROELICH	Moulton Niguel Water District
TREVOR AGRELIUS	Moulton Niguel Water District
BILL MOORHEAD	Moulton Niguel Water District
KAY HAVENS	El Toro Water District
RICK SHINTAKU	South Coast Water District

1. CALL TO ORDER

Chairperson Ferons called the meeting to order at 8:32 a.m. Director Ferons announced there was a correction to the Board Agenda stating the correct year was 2020 not 2019 and that the meeting had been posted for 2020.

2. PLEDGE OF ALLEGIANCE – Alternate Director Paludi

3. ORAL COMMUNICATIONS

None

4. CONSENT CALENDAR

Ms. Burnett pulled items 4C, and 4D for a staff comment.

Director Collings pulled item 4A2, the Minutes for 12-12-19 meeting.

Chairman Ferons called the question for the remainder of the Consent Calendar.

ACTION TAKEN

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

Motion carried: Aye 9, Nay 0, Abstained 0, Absent 1
Director Ferons Aye
Director Iseman Aye
Director Erdman Aye
Director Miller Aye
Director Dunbar Aye
Director Collings Aye
Director Paludi Aye
Director Freshley Aye
Director Reinhart Aye
Director Rebensdorf Absent

A.2 Minutes of the Board of Directors Meeting December 12, 2019

Director Collings noted on page 11, item F, he clarified his comment in the Use Audit was specific to the Cogen Engine and not to every detail of the Use Audit. Director Collings stated with that modification of the Minutes he moved approval.

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Miller to approve the Minutes of December 12, 2019 as modified.

Motion carried: Aye 9, Nay 0, Abstained 0, Absent 1
Director Ferons Aye
Director Iseman Aye
Director Erdman Aye
Director Miller Aye
Director Dunbar Aye
Director Collings Aye
Director Paludi Aye
Director Freshley Aye
Director Reinhart Aye
Director Rebensdorf Absent

- C. Financial Reports of the Month of October 2019; and
- D. Financial Reports of the Month of November 2019

Ms. Burnett informed the Board that there was not a Finance Committee Meeting in the timeframe of generating the October and November 2019 Financial Reports and bringing to the January 9, 2020 Board Meeting. She stated the Finance Committee Chair was given the reports to review as well as they were distributed electronically to the Member Agency Finance Officers for purposes of review and providing feedback. Ms. Burnett stated the next Finance Committee meeting was scheduled for March and at that time the Committee would receive all the financials to date as well as what was already reviewed by the Board.

Director Freshley stated she was unclear of the process for reviewing finance documents. She noted it was her understanding that the Committee met prior to the Board so that that financials that are brought to the Board had already been reviewed and are ready for approval. She stated that in her experience that financials closed monthly and should be ready for Board review the following month and that didn't seem to be the current practice for as long as she been a SOCWA Board Member. Directly Freshley noted the process should be, as soon as the monthly financials are done, they should be reviewed by the Finance Committee and then sent to the Board at it's next monthly meeting for approval.

Ms. Burnett responded, the Finance Committee meets periodically; typically during the beginning of the year in preparation of the budget and also in preparing for year-end close and finishing the audit. She noted that SOCWA is required to complete the audit by December and puts us on a tight timeframe at the end of the year. Ms. Burnett stated that it does take about a month after the close of the month to finalize the financials due to when the billings occur and the timing of when labor costs are applied.

Ms. Carey concurred with Ms. Burnett that because labor costs are still coming in, the financials will be behind about a month, and therefore would present the year-to-date financials budget vs. actual which is compared to the annual budget ongoing.

Directly Freshley stated she thought the Finance Committee met monthly, and noted her concern of the financials not being reviewed monthly by her agency staff as to prevent any surprises.

Ms. Burnett acknowledged Director Freshley's concerns and stated that the work around was to have the Finance Chair review the disbursement lists prior to approval and the items would be brought back to the Finance Committee for a deeper review to allow the opportunity to ask questions.

Director Erdman who is also the Finance Committee Chair stated when he became the Committee Chair several years ago, the Committee was following a precedent that had been long-standing as previously mentioned by Ms. Burnett. He noted the Finance Committee could meet more frequent maybe a week or two weeks prior to the Regular Board Meeting if it was the Board's pleasure to do so.

Director Freshley stated, when she did consultant work, she expected separate Finance meetings that met prior to bringing items to the Board whereas the Board wasn't concerned about accuracy of the data they were reviewing.

Ms. Burnett noted staff would work with the Chair provided staff could coordinate all work for year-end-close. She stated the financials would be a month behind but was open to the direction of the Board.

ACTION TAKEN

Motion was made by Director Erdman and seconded by Director Miller to ratify the October 2019 disbursements for the period of October 1, 2019 through October 31, 2019, totaling \$2,417,679, and to receive and file the October 2019 Financial Reports; and to ratify the November 2019 disbursements for the period of November 1, 2019, through November 30, 2019, totaling \$2,154,482, and to receive and file the November 2019 Financial Reports as submitted.

Motion carried: Aye 9, Nay 0, Abstained 0, Absent 1
Director Ferons Aye
Director Iseman Aye
Director Erdman Aye
Director Miller Aye
Director Dunbar Aye
Director Collings Aye
Director Paludi Aye
Director Freshley Aye
Director Reinhart Aye
Director Rebensdorf Absent

5. GENERAL MANAGER’S REPORT

- A. Resolution No. 2020-01 Approving A Revised Employee Manual; and
- B. Resolution No. 2020-02 Approving A Memorandum of Understanding with the SOCWA Employee Association for the period July 1, 2020 to June 30, 2023

Ms. Burnett stated the Board had already taken action to approve items 5a and 5b and that bringing forth Resolution 2020-01 and Resolution 2020-02 was for the purpose of having documentation when communicating with CalPERS regarding pay and benefits.

Director Ferons noted that Resolution 2020-01 for Revised Employee Manual included a new section for lactation accommodation in the policy as attachment F that was not in the initial policy when approved in November 2019, however, it aligns with state law.

ACTION TAKEN

Motion was made by Director Dunbar and seconded by Director Erdman to approve “Resolution No. 2020-01 of the Board of Directors of the South Orange County Wastewater Authority Documenting Approval of the Revised Employee Manual for all SOCWA Employees”, and “Resolution 2020-02 of the Board of Directors of the South Orange County Wastewater Authority Approving a Memorandum of Understanding with the SOCWA Employee Association for the Period July 1, 2020 to June 30, 2023”.

Motion carried: Aye 9, Nay 0, Abstained 0, Absent 1
Director Ferons Aye
Director Iseman Aye
Director Erdman Aye
Director Miller Aye
Director Dunbar Aye
Director Collings Aye
Director Dopudja Aye
Director Freshley Aye
Director Reinhart Aye
Director Rebensdorf Absent

C. Alternate Board Secretary

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Miller to appoint Danita Hirsh as the Alternate Board Secretary.

Motion carried:	Aye 9, Nay 0, Abstained 0, Absent 1
Director Ferons	Aye
Director Iseman	Aye
Director Erdman	Aye
Director Miller	Aye
Director Dunbar	Aye
Director Collings	Aye
Director Dopudja	Aye
Director Freshley	Aye
Director Reinhart	Aye
Director Rebensdorf	Absent

D. General Manager's Status Report

Ms. Burnett requested Ms. Amber Baylor, Director of Environmental Compliance to bring the Board up to date on the work that has been ongoing with the State Board on the lab accreditation.

Ms. Baylor updated the Board on her presentation to the State Water Resources Quality Control Board on the proposed alternative quality management system (the California Quality Management System). An open discussion ensued.

Mr. Manning introduced David Baranowski as SOCWA's new Senior Engineer stating that Mr. Baranowski came from Carollo Engineers and is a graduate from UC-Berkely with a degree in Mechanical Engineer and holds a California Civil P.E.

Director Erdman noted on page 188 regarding the impact of the storms that is was notable to have on the agenda. He stated the importance of addressing the issues because they were the types of incidents the Regional Board sometimes look at down the road and questions how they are being handled.

Director Collings noted his concerns with how the language was presented stating that the report only told part of the story. He noted there was a substantial amount of work done by Moulton Niguel addressing the issues and MNWD has been in continued communication with the Regional Board. An open discussion ensued.

This was an information item; no action taken.

The Board took a ten-minute recess before convening to Closed Session at 9:30 a.m.

6. CLOSED SESSION

A Closed Session was conducted Pursuant to Government Code Section 54957.

- Public Employee Performance Evaluation
 - Title: General Manager

The meeting reconvened to Open Session at 11:22 a.m.

REPORT OUT OF CLOSED SESSION

There were no reportable actions.

7. OTHER MATTERS

None

8. ADJOURNMENT

There being no further business, Director Ferons adjourned the meeting at 11:22 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Regular Meeting of the South Orange County Wastewater Authority Board of Directors on January 9, 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
Executive Committee
April 16, 2019**

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors Executive Meeting Meeting was held on April 16, 2019, at 4:00 p.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Executive Committee were present:

MICHAEL DUNBAR	El Toro Water District
JOONE LOPEZ	Moulton Niguel Water District
DAN FERONS	Santa Margarita Water District
STEPHEN DOPUDJA	Trabuco Canyon Water District

Staff Present:

BETTY BURNETT	General Manager
TERI NOSON	Clerk of the Board [exit: 4:01 p.m.]

Also Present:

BRAD NEUFELD	Labor Counsel, Varner&Brandt
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1. Call Meeting to Order

Chairman Ferons called the meeting to order at 4:00 p.m. and welcomed everyone present.

2. Public Comments

There were no public comments.

3. Approval of Minutes

ACTION TAKEN

Motion was made by Director Dunbar and seconded by Director Dopudja to approve the December 6, 2018, Executive Committee Minutes as submitted.

Motion carried:	Aye 3, Nay 0, Abstained 1, Absent 0
	Chairman Ferons Aye
	Vice Chairman Dopudja Aye
	Director Dunbar Aye
	Director Lopez Abstain

The Executive Committee entered into Closed Session at 4:01 p.m.

4. Closed Session

A. A Closed Session was conducted pursuant to Government Code Section 54957

- Public Employee Performance Evaluation – General Manager

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B. A Closed Session was conducted in accordance with Government Code Section 54957.6

- Conference with SOCWA Negotiators RE: Employee MOU – Betty Burnett, General Manager & Brad Neufeld, Labor Counsel.

The Board ended Closed Session at 5:19 p.m.

Report out of Closed Session

There was no reportable action from Closed Session.

Adjournment

There being no further business, Chairman Ferons adjourned the meeting at 5:20 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Executive Committee of the South Orange County Wastewater Authority Special Meeting of April 16, 2019, and approved by the Executive Committee and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

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

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

September 12, 2019

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee Meeting was held on September 12, 2019, at 8:30 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Engineering Committee were present:

MARC SERNA	South Coast Water District
DON BUNTS	Santa Margarita Water District [exit 9:38 a.m.]
MIKE MARQUIS	City of San Juan Capistrano
LORRIE LAUSTEN	Trabuco Canyon Water District [exit 9:40 a.m.]
ROD WOODS	Moulton Niguel Water District
BOBBY YOUNG	El Toro Water District [exit 9:40 a.m.]
MIKE DUNBAR	Emerald Bay Service District

Absent:

KEVIN BURTON	Irvine Ranch Water District
DAVE REBENS DORF	City of San Clemente
DAVE SHISSLER	City of Laguna Beach

Staff Present:

JASON MANNING	Director of Engineering
RONI YOUNG	Associate Engineer
AMBER BAYLOR	Director of Environmental Compliance
JIM BURROR	Director of Operations
JEANETTE COTINOLA	Contracts/Procurement Administrator
BETTY BURNETT	General Manager
DANITA HIRSH	Administrative Assistant

Also Present:

DENNIS ERDMAN	South Coast Water District
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1. Call Meeting to Order

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

2. Public Comments

Mr. Erdman commented that he would like to see the SOCWA Board of Directors develop tangible goals for the three treatment plants. Perhaps the decision will be made to re-rate the plant flows, to have an alternative to manage storm-related flows, or to adopt new forms of treatment technology above activated sludge treatment. As an example of a goal to reach toward, Director Erdman commented that perhaps Project Committee 2 (PC 2) should set a

goal to be at 50% water reuse by 2025. He noted that other SOCWA member agencies set goals and take actions toward achieving those goals, and SOCWA should have specific goals.

3. Approval of Minutes

- Engineering Committee Meeting Minutes of July 18, 2019; and

ACTION TAKEN

Motion was made by Mr. Bunts and seconded by Mr. Woods to approve Engineering Committee Meeting Minutes for July 18, 2019, as submitted.

Motion carried:	Aye 7, Nay 0, Abstained 0, Absent 3
	Marc Serna (SCWD) Aye
	Don Bunts (SMWD) Aye
	Mike Marquis (CSJC) Aye
	Lorrie Lausten (TCWD) Aye
	Rod Woods (MNWD) Aye
	Bobby Young (ETWD) Aye
	Kevin Burton (IRWD) Absent
	Dave Rebensdorf (CSC) Absent
	Dave Shissler (CLB) Absent

- Engineering Committee Meeting Minutes of August 15, 2019

ACTION TAKEN

Motion was made by Mr. Bunts and seconded by Mr. Woods to approve Engineering Committee Meeting Minutes for August 15, 2019 Minutes as corrected on page 1, El Toro Water Districts representative to Bobby Young, page 2, agenda item 5 of the “Discussion” to Ms. Young, and change the Minute Certification in the last paragraph of the Minutes meeting reference to “Special Meeting” and date to August 15.

Motion carried:	Aye 7, Nay 0, Abstained 0, Absent 3
	Marc Serna (SCWD) Aye
	Don Bunts (SMWD) Aye
	Mike Marquis (CSJC) Aye
	Lorrie Lausten (TCWD) Aye
	Rod Woods (MNWD) Aye
	Bobby Young (ETWD) Aye
	Kevin Burton (IRWD) Absent
	Dave Rebensdorf (CSC) Absent
	Dave Shissler (CLB) Absent

4. Operations Report – None

5. Regional Treatment Plant Cogeneration System Update (Project Committee 17)

Mr. Manning gave an update on the status of the operation of the Cogen system at the Regional Treatment Plant. He commented on some of the challenges that have been occurring and informed the committee of potential options for resolution. Mr. Manning stated more information would be available at the next meeting. An open discussion ensued.

This was an information item; no action was taken.

6. SOCWA Engineering Staff Augmentation (Project Committees 5, 17, and 24)

Mr. Manning briefed the Committee on the status of filling the vacancy for the Senior Engineer position stating there were delays in completing the process. He informed the Committee that in order to provide some assistance to SOCWA Engineering staff with managing offsite projects, an RFP went out soliciting proposals for inspection services, construction management services, coordination, and program services. He stated the bulk of the services would primarily be applied to the Regional Treatment Plant. Mr. Manning also stated that to save time, the proposals would be brought directly to the Board for approval. However, he would be circulating the proposals to the Engineering Committee for review and input as soon as they're received. An open discussion ensued.

This was an information item; no action was taken.

7. Discussion on the Addition of the Doheny Desal to the SJCOO NPDES Permit (Project Committee 5)

Ms. Baylor reported on the status of the NPDES Permits for the Aliso Creek and San Juan Creek Ocean Outfalls. She also reported on the water quantity impact for determining cost allocations impacting PC5 members. An open discussion ensued.

ACTION TAKEN

There was a consensus amongst the Project Committee 5 (PC5) members to forward to the Board of Directors at its October 3, 2019 meeting, to approve the inclusion and update of the Report of Waste Discharge (ROWD) to include the Doheny Desal Project with the condition that updated modeling and monthly monitoring is conducted as described in the report.

8. J.B. Latham Treatment Plant Electrical System Evaluation (Project Committee 2) Proposal Review

Mr. Manning reported on the status of responses that were received as a result of an RFP for obtaining updated single-line drawings for the purpose of doing a condition assessment and developing a replacement plan on the majority of the electrical system that was not improved during the cogeneration upgrade project. An open discussion ensued.

ACTION TAKEN

There was a consensus amongst the PC2 members (South Coast Water District, City of San Juan Capistrano, and Moulton Niguel Water District; however, Santa Margarita Water District was absent) to forward the proposal from Hazen & Sawyer to the Board for consideration and approval.

9. J.B. Latham Treatment Plant Hydraulic Modeling and Flow Management Study (Project Committee 2) Proposal Review

Mr. Manning reported on the status of responses that were received as a result of an RFP for developing the Hydraulic Modeling and Flow Management Study. The model would be an Excel spreadsheet that would calculate energy grade line and water surface elevations at each component of the plant. Additionally, it would allow the capability to adjust the inputs for influent flows, recycle flows, and number of basins or units in service. Mr. Manning also reported that the only consultant to respond to the RFP was Carollo Engineers. An open discussion ensued.

ACTION TAKEN

There was a consensus amongst the PC2 members (South Coast Water District, City of San Juan Capistrano, and Moulton Niguel Water District; however, Santa Margarita Water District was absent) to forward the proposal from Carollo Engineers to the Board for consideration and approval.

**10. J.B. Latham Treatment Plant Centrate System Final Design Project Committee 2
Proposal Review**

Ms. Roni Young gave an updated report on the status of re-negotiating with Kleinfelder on the design costs for the Centrate System based on the direction given by the PC2 members at the August 2019 Engineering Committee Meeting. Ms. Young informed the members that Kleinfelder was able to modify their costs by proposing a package pump station instead of a conventional station, which lowered their cost from \$152,360 to 112,268. She noted that the original amount of \$152,360 was recommended, and during the preliminary design, Kleinfelder would explore both the conventional and packaged pump stations to determine the more suitable option for the project, and if the packaged pump station was selected, the design fee would be the lower negotiated amount of \$112,228. Ms. Young stated it was staff's recommendation to select Kleinfelder for the work. An open discussion ensued.

ACTION TAKEN

There was a consensus amongst the PC2 members (South Coast Water District, City of San Juan Capistrano, and Moulton Niguel Water District; Santa Margarita Water District was absent) to forward the proposal from Kleinfelder to the Board for consideration and approval.

11. Adjournment

There being no further business, Mr. Manning adjourned the meeting at 10:44 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Regular Meeting of the South Orange County Wastewater Authority Engineering Committee of September 12, 2019, and approved by the Engineering Committee and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

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

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

October 10, 2019

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee Meeting was held on October 10, 2019, at 8:30 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Engineering Committee were present:

DENNIS ERDMAN	South Coast Water District
DAVE SHISSLER	City of Laguna Beach
ROD WOODS	Moulton Niguel Water District
MIKE MARQUIS	City of San Juan Capistrano
LORRIE LAUSTEN	Trabuco Canyon Water District
DON BUNTS	Santa Margarita Water District
BOBBY YOUNG	El Toro Water District

Absent:

KEVIN BURTON	Irvine Ranch Water District
DAVE REBENDORF	City of San Clemente
MIKE DUNBAR	Emerald Bay Service District

Staff Present:

JASON MANNING	Director of Engineering
RONI YOUNG	Associate Engineer
JIM BURROR	Director of Operations
AMBER BAYLOR	Director of Environmental Compliance
JEANETTE COTINOLA	Contracts/Procurement Administrator
BETTY BURNETT	General Manager
DANITA HIRSH	Administrative Assistant

Also Present:

DENNIS ERDMAN	South Coast Water District
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1. Call Meeting to Order

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

2. Public Comments

None.

3. SOCWA Innovative Biosolids Technical Advisory Committee Review (Project Committees 2 and 17)

Mr. Manning gave an update to the Committee on the Biosolids proposals. He gave a quick review of the process and stated the meeting would be primarily focused on the discussion of biosolids based on the proposals that were received from five different vendors and had previously been shared with the group. He also noted the focus would cover the project

objectives, updates from a few of the vendors and reviewing the goals, score cards, and next steps. An opens discussion ensued.

ACTION

The Committee conceded to dropping Gate 5 and Anaergia from the list of potential vendors and directed Mr. Manning to:

- a. Proceed with generating a list of questions taken from the meeting discussions that addressed the members concerns;
- b. Forwarding said list of questions to the Committee members for review and comments before sending to remaining vendors;
- c. Upon receipt, share vendor responses with the Committee; and
- d. Finally, set meeting(s) to share gathered information with the Project Committees.

4. Adjournment

There being no further business, Mr. Manning adjourned the meeting at 10:44 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Regular Meeting of the South Orange County Wastewater Authority Engineering Committee of October 10, 2019, 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 MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY**

Project Committee No. 15

November 14, 2019

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee No. 15 was held on November 14, 2019, at 10:00 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of Project Committee No. 15 were present:

MIKE DUNBAR	Emerald Bay Service District
DENNIS ERDMAN	South Coast Water District
MATT COLLINGS	Moulton Niguel Water District
DAVID SHISSLER	City of Laguna Beach

Staff present:

BETTY BURNETT	General Manager
JASON MANNING	Director of Engineering
JIM BURROR	Director of Operations
AMBER BAYLOR	Director of Environmental Compliance
RONI YOUNG	Associate Engineer
JEANETTE COTINOLA	Procurement/Contracts Administrator
DANITA HIRSH	Administrative Assistant

Also Present:

RICK SHINTAKU	South Coast Water District
JOE MCDIVITT	South Coast Water District
GREG PENNINGTON	South Coast Water District
ROD WOODS	Moulton Niguel Water District

1. Call Meeting to Order

Chairperson Dunbar called the meeting to order at 10:06 a.m.

2. Public Comments

None

3. Discussion of Facility Alternatives for Future Treatment

Ms. Burnett noted there were items needed to be addressed regarding the Aeration System and whether the Committee would like to move forward with the Force Main Project. She stated the Mr. Mason would be providing information that came out of the Engineering Committee meeting discussions on the Innovative Biosolids responses that required direction from the PC-15 Members.

Mr. Manning provided a presentation on the PC-15 Capital Improvements Program refreshing the Committee on the 10-year plan that included the current fiscal year. Mr. Mannings presentation covered SOCWA's 10-year plan, Aeration and MBR Project, and the Innovative Biosolids Project. An open discussion ensued.

ACTION

The PC-15 Committee conceded to inviting Hazen Sawyer to the next PC-15 Committee meeting to discuss the scope of work on providing a facility feasibility report on the Coastal Treatment Plant.

4. Aliso Creek Watershed Group Meeting Update

Ms. Burnett briefed the Committee on the discussions that had been ongoing at the Aliso Creek Watershed Meetings. She noted SOCWA's level of participation had been to have someone from senior staff attend the meetings and inform the group that SOCWA's interests are to maintain and take care of the facilities infrastructure. An open discussion ensued.

This was an information item; no action was taken.

5. Update on Coastal Treatment Plant Existing Construction

Mr. Manning stated there were no major updates on the construction projects at the Coastal Treatment Plant. He noted the contractor had begun mobilization, potholing and setting up the site. He stated the next steps would be setting up temporary power and working in the basins. However, nothing major to report to date.

This was an information item; no action was taken

6. Adjournment

There being no further business, Chairperson Dunbar adjourned the meeting at 12:04 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. 15 of November 14, 2019 and approved by the Project Committee No. 15 and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

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

Agenda Item

4e

Board of Directors Meeting

Meeting Date: February 6, 2020

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Mary Carey, Finance Controller

SUBJECT: Financial Reports for the Month of December 2019

Summary/Discussion

The following selected financial reports will be provided for the review of the Finance Committee at the February 20, 2020 meeting and returned to the Board for action at the March 2020 Board meeting.

For the purpose of presenting timely information to the Board of Directors, the reports are provided with this Agenda Item as Information items only at this time.

The reports included are as follows:

1. Summary of Disbursements for December 2019 (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)

Fiscal impact

December 2019 cash disbursements were: \$1,999,492.

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

Recommended Action

Information Item.

Exhibit A

**South Orange County Wastewater Authority
Summary of Disbursements for December 2019
Staff Recommendation of Fiscal Matters**

	<u>Actual</u>
General Fund	(485,211)
PC 2 - Jay B. Latham Plant	(658,912)
PC 3 - SOCWA Plant/PCA AWT	-
PC 5 - San Juan Creek Ocean Outfall	(18,386)
PC 8 - Pretreatment Program	(6,989)
PC 12 SO - Water Reclamation Permits	(3,894)
PC 15 - Coastal Treatment Plant/AWT	(232,823)
PC 17 - Joint Regional Wastewater Reclamation	(567,963)
PC 21 - Effluent Transmission Main	(137)
PC 24 - Aliso Creek Ocean Outfall	(25,178)
Total	<u><u>(\$1,999,492)</u></u>

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
SCHEDULE OF FUNDS AVAILABLE FOR REINVESTMENT
as of December 31, 2019**

CASH IN BANK: (BEGINNING BAL.)	1,023,831
L.A.I.F. FUNDS: (BEGINNING BAL.)	30,309,550
DEPOSITS, TRANSFERS & ADJUSTMENTS:	630,070
FUND REQUIREMENTS:	
BILLS FOR CONSIDERATION	(1,999,492)
	\$ 29,963,959

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

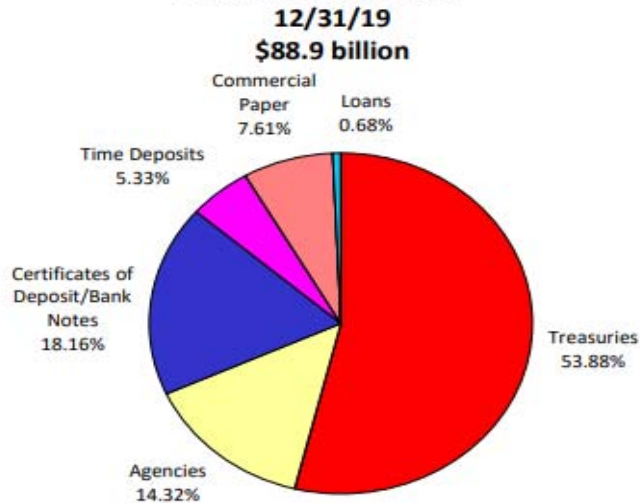
Note: Operational funds are collected on a quarterly basis at the beginning of the quarter. Capital funds are collected on a quarterly basis in connection with projected needs. Member agencies have pledged to have funds available to meet all obligations.



PMIA/LAIF Performance Report as of 01/15/2020



Pooled Money Investment Account Portfolio Composition ⁽¹⁾



Percentages may not total 100% due to rounding

PMIA Average Monthly Effective Yields⁽¹⁾

Dec 2019	2.043
Nov 2019	2.103
Oct 2019	2.190

LAIF Quarterly Performance Quarter Ended 12/31/19

Apportionment Rate ⁽²⁾ :	2.29
Earnings Ratio ⁽²⁾ :	0.0000625008577897
Fair Value Factor ⁽¹⁾ :	1.001770298
Daily ⁽¹⁾ :	2.02%
Quarter to Date ⁽¹⁾ :	2.11%
Average Life ⁽¹⁾ :	226

PMIA Daily Rates⁽¹⁾

Date	Daily Yield*	Quarter to Date Yield	Average Maturity (in days)
12/16/19	2.04	2.13	226
12/17/19	2.04	2.13	226
12/18/19	2.04	2.13	227
12/19/19	2.04	2.13	226
12/20/19	2.03	2.12	224
12/21/19	2.03	2.12	224
12/22/19	2.03	2.12	224
12/23/19	2.03	2.12	222
12/24/19	2.03	2.12	225
12/25/19	2.03	2.12	225
12/26/19	2.03	2.12	224
12/27/19	2.03	2.12	227
12/28/19	2.03	2.12	227
12/29/19	2.03	2.12	227
12/30/19	2.03	2.11	224
12/31/19	2.02	2.11	226
01/01/20	2.03	2.03	224
01/02/20	2.00	2.02	231
01/03/20	2.00	2.01	229
01/04/20	2.00	2.01	229
01/05/20	2.00	2.01	229
01/06/20	2.00	2.00	226
01/07/20	1.99	2.00	224
01/08/20	1.99	2.00	224
01/09/20	1.99	2.00	224
01/10/20	1.98	2.00	223
01/11/20	1.98	2.00	223
01/12/20	1.98	2.00	223
01/13/20	1.98	1.99	220
01/14/20	1.97	1.99	221
01/15/20	1.96	1.99	228

*Daily yield does not reflect capital gains or losses

[View Prior Month 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, 2019**

MVA	\$ 5,501	(A)
A/P Checking	457,153	(B)
Payroll Checking	101,755	(C)
State LAIF	29,399,550	(D)
Total Cash in Bank	\$ 29,963,959	
Petty Cash	1,600	(E)
Total Operating Cash	\$ 29,965,559	
OPEB Trust	5,431,436	(F)
Total Cash and Investments	\$ 35,396,995	

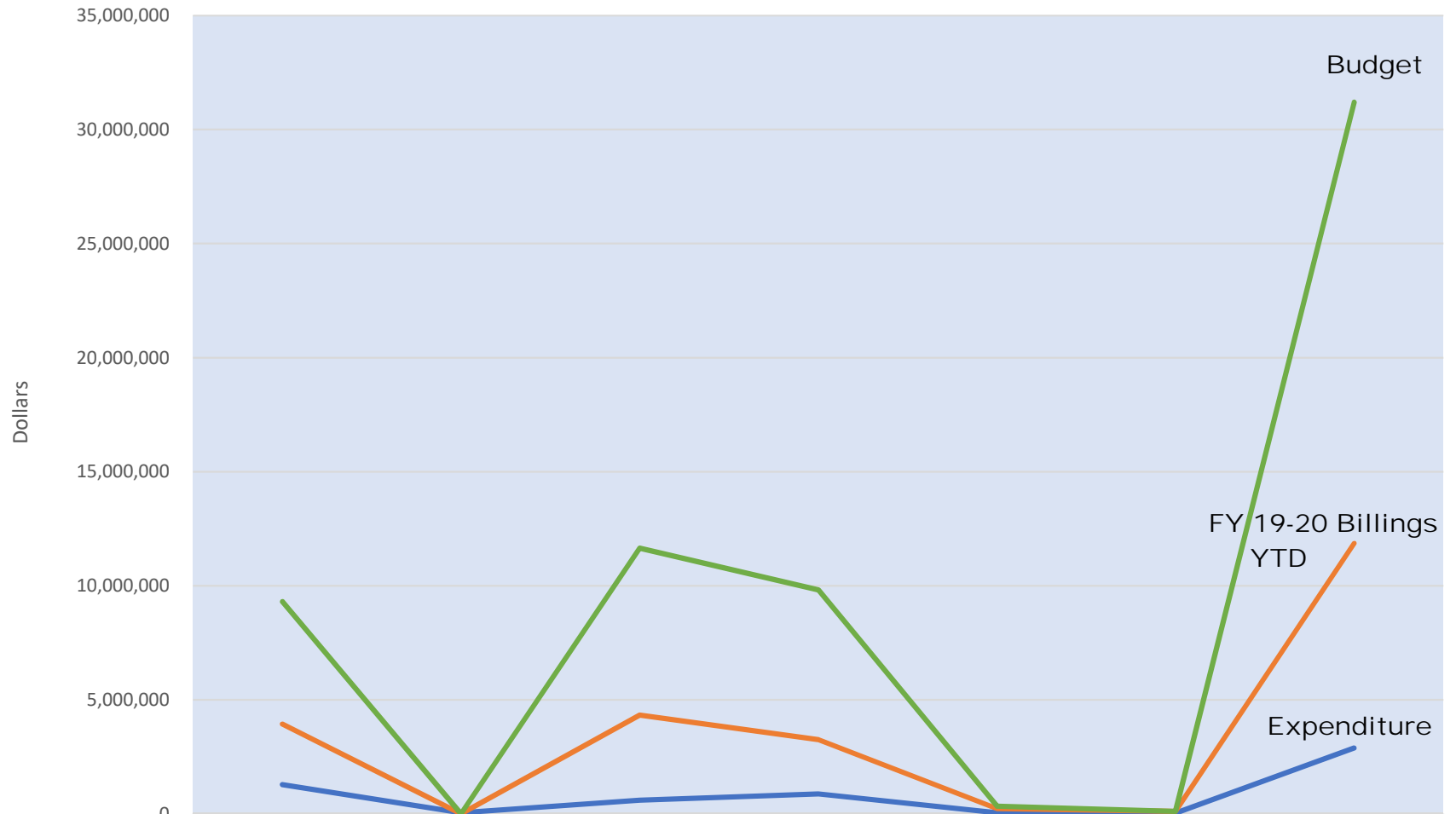
Notes:

- (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) 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, 2019**

FY 2019-20 Budget vs. Actual Spending								
<u>Description</u>	Capital Budget	Fiscal Year Spending	(Over)/ Under Budget	% Expended	Member Agency Billed	Member Agency Collections	Current Receivables	% Expended vs. Billed
PC 2-JB Latham	9,301,575	1,281,820	8,019,755	13.8%	3,929,601	3,929,601		32.6%
* PC 5-San Juan Creek Outfall	-	50,143	(50,143)		-	-		
PC 15-Coastal	11,644,171	597,261	11,046,909	5.1%	4,332,696	4,332,696		13.8%
PC 17-Regional	9,817,108	877,423	8,939,686	8.9%	3,257,786	3,257,786		26.9%
PC 21 Effluent Transmission	329,666	48,991	280,674	14.9%	227,941	227,941		21.5%
PC 24 Aliso Creek Outfall	106,253	30,007	76,246	28.2%	106,253	106,253		28.2%
Total Large Capital	31,198,772	2,885,645	28,313,127	9.2%	11,854,277	11,854,277	-	24.3%
Non-Capital Engineering	838,687	27,227	811,460	3.2%	556,024	556,024		4.9%
Non-Capital Misc Engineering	425,000	36,455	388,545	8.6%	212,508	212,508		17.2%
Small Internal Capital	2,047,504	344,745	1,702,759	16.8%	1,023,752	1,023,752		33.7%
Total Capital	34,509,964	3,294,072	31,215,892	9.5%	13,646,561	13,646,561	-	24.1%

Large Capital Projects Fiscal Year '19-20 Budget vs. Exhibit D-1 Year-to-Date (Q1) Expenditures & Billings as of 12/31/2019



	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 12/31/19	1,281,820	50,143	597,261	877,423	48,991	30,007	2,885,645
FY 19-20 Billings	3,929,601	0	4,332,696	3,257,786	227,941	106,253	11,854,277
Capital Budget 19-20	9,301,575	-	11,644,171	9,817,108	329,666	106,253	31,198,772

**South Orange County Wastewater Authority
O & M & Environmental Safety Costs Summary**
For the Period Ended December 31, 2019

	FY 2019-20 Budget	Board Approved Expenditures	Adjusted Budget	Actual	(Over)/Under Budget	% Expended	
Salary and Fringe							
5000..*.*.*	Regular Salaries-O&M	4,620,132	10,289	4,630,421	2,239,806	48.4%	
5001..*.*.*	Overtime Salaries-O&M	109,504		109,504	44,166	40.3% (1)	
5306..*.*.*	Scheduled Holiday Work	28,692		28,692	16,048	55.9%	
5315..*.*.*	Comp Time - O&M	7,796		7,796	5,805	74.5% (1)	
5401..*.*.*	Fringe Benefits IN to PC's & Depts.	3,323,840		3,323,840	1,590,262	47.8%	
5700..*.*.*	Standby Pay	67,600		67,600	34,728	51.4%	
	Total Payroll Costs	8,157,564	10,289	8,167,853	3,930,816	48.1%	
Other Expenses							
5002..*.*.*	Electricity	1,022,564		1,022,564	585,957	57.3% (2)	
5003..*.*.*	Natural Gas	266,504		266,504	121,868	45.7%	
5004..*.*.*	Potable & Reclaimed Water	84,992		84,992	35,334	41.6%	
5005..*.*.*	Co-generation Power Credit	(325,004)		(325,004)	(326,388)	100.4%	
5006..*.*.*	Chlorine/Sodium Hypochlorite	506,000		506,000	267,953	53.0% (11)	
5007..*.*.*	Polymer Products	805,004		805,004	302,495	37.6%	
5008..*.*.*	Ferric Chloride	304,992		304,992	221,340	72.6% (3)	
5009..*.*.*	Odor Control Chemicals	130,000		130,000	53,016	40.8%	
5010..*.*.*	Other Chemicals - Misc.	2,996		2,996	-	0.0%	
5011..*.*.*	Laboratory Services	44,412		44,412	33,262	74.9%	
5012..*.*.*	Grit Hauling	128,252		128,252	66,353	51.7%	
5013..*.*.*	Landscaping	159,996		159,996	62,941	39.3%	
5014..*.*.*	Engineering - Misc.	1,000		1,000	-	0.0%	
5015..*.*.*	Management Support Services	360,212		360,212	104,907	29.1%	
5016..*.*.*	Audit - Environmental	600		600	-	0.0%	
5017..*.*.*	Legal Fees	28,352		28,352	11,584	40.9%	
5018..*.*.*	Public Notices/ Public Relations	5,004		5,004	107	2.1%	
5019..*.*.*	Contract Services Misc.	199,996		199,996	126,649	63.3%	
5021..*.*.*	Small Vehicle Expense	24,064		24,064	10,570	43.9%	
5022..*.*.*	Miscellaneous Expense	18,004		18,004	3,617	20.1%	
5023..*.*.*	Office Supplies - All	43,004		43,004	21,357	49.7%	
5024..*.*.*	Petroleum Products	49,004		49,004	12,400	25.3%	
5025..*.*.*	Uniforms	54,004		54,004	35,786	66.3%	
5026..*.*.*	Small Vehicle Fuel	31,500		31,500	9,709	30.8%	
5027..*.*.*	Insurance - Property/Liability	210,096	55,929	266,025	173,021	65.0%	
5028..*.*.*	Small Tools & Supplies	74,872		74,872	40,403	54.0%	
5030..*.*.*	Trash Disposal	6,992		6,992	2,800	40.1%	
5031..*.*.*	Safety Program & Supplies	117,356		117,356	74,468	63.5% (4)	
5032..*.*.*	Equipment Rental	7,004		7,004	-	0.0%	
5033..*.*.*	Recruitment	3,004		3,004	1,904	63.4%	
5034..*.*.*	Travel Expense/Tech. Conferences	61,932		61,932	34,804	56.2% (5)	
5035..*.*.*	Training Expense	55,168		55,168	18,018	32.7%	
5036..*.*.*	Laboratory Supplies	93,256		93,256	39,217	42.1%	
5037..*.*.*	Office Equipment	25,000		25,000	3,276	13.1%	
5038..*.*.*	Permits	500,128		500,128	404,377	80.9% (6)	
5039..*.*.*	Membership Dues/Fees	22,892		22,892	18,821	82.2% (7)	
5044..*.*.*	Offshore Monitoring	36,000		36,000	29,931	83.1% (8)	
5046..*.*.*	Effluent Chemistry	28,004		28,004	18,618	66.5%	
5047..*.*.*	Access Road Expenses	49,000		49,000	21,506	43.9%	
5048..*.*.*	Storm Damage	20,008		20,008	549	2.7%	
5049..*.*.*	Biosolids Disposal	1,355,004		1,355,004	720,473	53.2%	
5050..*.*.*	Contract Services Generators - 29A	22,008		22,008	-	0.0%	
5052..*.*.*	Janitorial Services	102,008		102,008	39,012	38.2%	
5053..*.*.*	Contract Serv - Digester Cleaning - 29E	59,996		59,996	-	0.0%	
5054..*.*.*	Diesel Truck Maint	41,000		41,000	26,043	63.5% (9)	
5055..*.*.*	Diesel Truck Fuel - 37B	14,996		14,996	4,591	30.6%	
5056..*.*.*	Maintenance Equip. & Facilities (Solids)	356,004		356,004	141,284	39.7%	
5057..*.*.*	Maintenance Equip. & Facilities (Liquids)	663,000		663,000	256,702	38.7%	
5058..*.*.*	Maintenance Equip. & Facilities (Common)	87,008		87,008	48,200	55.4% (12)	
5059..*.*.*	Maintenance Equip. & Facilities (Co-Gen)	957,996		957,996	346,708	36.2%	
5060..*.*.*	Maintenance Equip. & Facilities (AWT)	74,000		74,000	36,993	50.0%	
5061..*.*.*	Mileage	2,508		2,508	1,343	53.5%	
5068..*.*.*	MNWD Potable Water Supplies & Svcs.	24,972		24,972	9,522	38.1%	
5069..*.*.*	Outfall Inspection/Port Cleaning	60,004		60,004	15,750	26.2%	
5076..*.*.*	SCADA Infrastructure	20,992		20,992	698	3.3%	
5077..*.*.*	IT Direct	16,080		16,080	12,771	79.4% (10)	
5105..*.*.*	Co-Generation Power Credit - Offset	325,000		325,000	326,388	(1,388)	100.4%
5303..*.*.*	Group Insurance Waiver	14,396		14,396	7,398	51.4%	
5305..*.*.*	Medicare Tax Payments for Employees	2,784		2,784	2,610	93.8%	
5309..*.*.*	Operating Leases	21,800		21,800	11,409	52.3%	
5705..*.*.*	Monthly Car Allowance	28,184		28,184	14,852	52.7%	
5706..*.*.*	Effluent Pond Cleaning	90,000		90,000	-	0.0%	
02-5799-01-00-00	Zephyr Wall Costs Share - O&M	-		-	(14,079)	0.0%	
6500..*.*.*	IT Allocations in to PC's & Depts.	592,694		592,694	309,554	52.2%	
	Total Other Expenses	10,188,598	55,929	10,244,527	4,960,862	48.4%	
	Total O&M Expenses	18,346,162	66,218	18,412,380	8,891,678	48.5%	

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

For the Period Ended December 31, 2019

- (1) Staff is utilizing Comp Time more than Overtime and considering both line items together, the overall Overtime Budget is 42.6% in the first quarter of the FY.
- (2) Power costs are elevated, and the line item Budget may need to be adjusted due to high energy demand charges as discussed with the Board in May during the approval of the FY 2019-20 Budget.
Ferric chloride usage continues to be elevated due to sulfur type filamentous bacteria entering the plants from the collection system. O&M staff has increased Ferric dosing to trying to settle the bacteria in the primary clarifiers prior to biological treatment because these bacteria do not settle well and impact effluent quality. These bacteria are becoming more prevalent in the collection system to the plants with lower and lower sewer flows.
- (3) The first quarter included the purchase of new boots per the Employee Manual; expenses are planned to level off.
- (5) Two of the three planned major conferences were attended by staff in the first quarter of the Fiscal Year including, WEFTEC and HACHWIMS; expenses are planned to level off.
- (6) Costs to date include SOCWA's annual renewal of its NPDES and SCAQMD permits; expenses are planned to level off.
- (7) Membership renewals are primarily paid in July; expenses are planned to level off.
- (8) Additional costs due to replacement of moors in the ocean for sample location identification.
- (9) Sludge hauling truck emissions control system repairs. Truck rented for several Biosolids hauling.
- (10) PC specific SCADA laptops and software were purchased in the first quarter; expenses are planned to level off.
- (11) Bleach usage is elevated in the summer and drops with lower recycled water demand in the winter; expenses are planned to level off.
- (12) The RTP Operations Building required a large plumbing project to replace leaking cast iron plumbing that was corroded and cracked; expenses are planned to level off.

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
 For the Period Ended December 31, 2019

		FY 2019-20 Budget	Board Approved Expenditures	Adjusted Budget	Actual	(Over)/Under Budget	%Expended
02 - Jay B. Latham Plant							
Salary and Fringe							
02-5000.**.**	Regular Salaries-O&M	1,539,152	5,045	1,544,197	805,669	738,528	52.2%
02-5001.**.**	Overtime Salaries-O&M	35,144		35,144	16,004	19,140	45.5% (1)
02-5306.**.**	Scheduled Holiday Work	13,324		13,324	6,450	6,874	48.4%
02-5315.**.**	Comp Time - O&M	3,508		3,508	4,173	(665)	119.0% (1)
02-5401.**.**	Fringe Benefits IN to PC's & Depts.	1,107,296		1,107,296	572,025	535,271	51.7%
02-5700.**.**	Standby Pay	13,520		13,520	13,135	385	97.1% (2)
	Total Payroll Costs	2,711,944	5,045	2,716,989	1,417,455	1,299,534	52.2%
Other Expenses							
02-5002.**.**	Electricity	399,688		399,688	247,251	152,437	61.9% (3)
02-5003.**.**	Natural Gas	168,004		168,004	56,524	111,480	33.6%
02-5004.**.**	Potable & Reclaimed Water	24,000		24,000	10,982	13,018	45.8%
02-5006.**.**	Chlorine/Sodium Hypochlorite	5,000		5,000	3,657	1,343	73.1% (4)
02-5007.**.**	Polymer Products	322,000		322,000	100,994	221,006	31.4%
02-5008.**.**	Ferric Chloride	103,736		103,736	66,572	37,164	64.2% (5)
02-5009.**.**	Odor Control Chemicals	28,988		28,988	11,027	17,961	38.0%
02-5010.**.**	Other Chemicals - Misc.	1,000		1,000	-	1,000	0.0%
02-5011.**.**	Laboratory Services	10,916		10,916	4,874	6,042	44.7%
02-5012.**.**	Grit Hauling	51,252		51,252	25,145	26,107	49.1%
02-5013.**.**	Landscaping	41,780		41,780	30,429	11,351	72.8% (6)
02-5014.**.**	Engineering - Misc.	-		-	-	-	0.0%
02-5015.**.**	Management Support Services	33,004		33,004	10,085	22,919	30.6%
02-5017.**.**	Legal Fees	3,328		3,328	1,077	2,251	32.4%
02-5019.**.**	Contract Services Misc.	60,240		60,240	33,371	26,869	55.4%
02-5021.**.**	Small Vehicle Expense	10,004		10,004	3,062	6,942	30.6%
02-5022.**.**	Miscellaneous Expense	8,000		8,000	2,907	5,093	36.3%
02-5023.**.**	Office Supplies - All	28,000		28,000	10,583	17,417	37.8%
02-5024.**.**	Petroleum Products	14,124		14,124	3,423	10,701	24.2%
02-5025.**.**	Uniforms	20,000		20,000	14,445	5,555	72.2% (7)
02-5026.**.**	Small Vehicle Fuel	15,004		15,004	5,523	9,481	36.8%
02-5027.**.**	Insurance - Property/Liability	68,556	18,250	86,806	57,973	28,833	66.8%
02-5028.**.**	Small Tools & Supplies	35,496		35,496	10,061	25,435	28.3%
02-5030.**.**	Trash Disposal	2,000		2,000	710	1,290	35.5%
02-5031.**.**	Safety Program & Supplies	39,652		39,652	23,497	16,155	59.3% (8)
02-5032.**.**	Equipment Rental	3,000		3,000	-	3,000	0.0%
02-5033.**.**	Recruitment	1,000		1,000	698	302	69.8%
02-5034.**.**	Travel Expense/Tech. Conferences	15,964		15,964	9,623	6,341	60.3% (9)
02-5035.**.**	Training Expense	13,168		13,168	6,334	6,834	48.1%
02-5036.**.**	Laboratory Supplies	14,520		14,520	6,473	8,047	44.6%
02-5037.**.**	Office Equipment	13,000		13,000	1,143	11,857	8.8%
02-5038.**.**	Permits	22,500		22,500	17,626	4,874	78.3%
02-5039.**.**	Membership Dues/Fees	4,200		4,200	7,477	(3,277)	178.0% (10)
02-5049.**.**	Biosolids Disposal	450,000		450,000	230,814	219,186	51.3%
02-5050.**.**	Contract Services Generators - 29A	10,004		10,004	-	10,004	0.0%
02-5052.**.**	Janitorial Services	41,000		41,000	19,332	21,668	47.2%
02-5053.**.**	Contract Serv - Digester Cleaning - 29E	59,996		59,996	-	59,996	0.0%
02-5054.**.**	Diesel Truck Maint	21,000		21,000	11,545	9,455	55.0%
02-5055.**.**	Diesel Truck Fuel - 37B	6,000		6,000	1,504	4,496	25.1%
02-5056.**.**	Maintenance Equip. & Facilities (Solids)	155,004		155,004	65,349	89,655	42.2%
02-5057.**.**	Maintenance Equip. & Facilities (Liquids)	254,000		254,000	107,734	146,266	42.4%
02-5058.**.**	Maintenance Equip. & Facilities (Common)	28,000		28,000	25,277	2,723	90.3% (11)
02-5059.**.**	Maintenance Equip. & Facilities (Co-Gen)	369,996		369,996	126,914	243,082	34.3%
02-5061.**.**	Mileage	1,504		1,504	494	1,010	32.8%
02-5076.**.**	SCADA Infrastructure	6,996		6,996	698	6,298	10.0%
02-5077.**.**	IT Direct	8,040		8,040	6,294	1,746	78.3% (12)
02-5303.**.**	Group Insurance Waiver	3,600		3,600	1,849	1,751	51.4%
02-5305.**.**	Medicare Tax Payments for Employees	1,116		1,116	1,607	(491)	144.0%
02-5309.**.**	Operating Leases	21,800		21,800	11,409	10,391	52.3%
02-5705.**.**	Monthly Car Allowance	12,592		12,592	8,379	4,213	66.5%
02-5799-01-00-00	Zephyr Wall Costs Share - O&M	-		-	(14,079)	14,079	0.0%
02-6500.**.**	IT Allocations in to PC's & Depts.	197,448		197,448	103,124	94,324	52.2%
	Total Other Expenses	3,229,220	18,250	3,247,470	1,491,790	1,755,680	45.9%
	Total Expenses	5,941,164	23,295	5,964,459	2,909,245	3,055,214	48.8%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended December 31, 2019

		FY 2019-20 Budget	Board Approved Expenditures	Adjusted Budget	Actual	(Over)/Under Budget	%Expended
05 - San Juan Creek Ocean Outfall							
Salary and Fringe							
05-5000.**.**	Regular Salaries-O&M	102,104		102,104	49,714	52,390	48.7%
05-5001.**.**	Overtime Salaries-O&M	900		900	403	497	44.8%
05-5401.**.**	Fringe Benefits IN to PC's & Depts.	73,456		73,456	35,297	38,159	48.1%
	Total Payroll Costs	176,460	-	176,460	85,415	91,045	48.4%
Other Expenses							
05-5003.**.**	Natural Gas	500		500	-	500	0.0%
05-5014-02-00-00	Engineering - Misc.	-		-	-	-	0.0%
05-5015.**.**	Management Support Services	15,004		15,004	723	14,281	4.8%
05-5017.**.**	Legal Fees	3,012		3,012	1,220	1,792	40.5%
05-5027.**.**	Insurance - Property/Liability	6,248	1,663	7,911	5,062	2,850	64.0%
05-5031.**.**	Safety Supplies	1,004		1,004	140	864	13.9%
05-5034.**.**	Travel Expense/Tech. Conferences	3,712		3,712	1,925	1,787	51.8%
05-5035.**.**	Training Expense	5,988		5,988	110	5,878	1.8%
05-5036.**.**	Laboratory Supplies	19,468		19,468	6,555	12,913	33.7%
05-5038.**.**	Permits	196,000		196,000	194,825	1,175	99.4% (13)
05-5039.**.**	Membership Dues/Fees	5,496		5,496	-	5,496	0.0%
05-5044.**.**	Offshore Monitoring	18,000		18,000	14,126	3,874	78.5% (14)
05-5046.**.**	Effluent Chemistry	14,000		14,000	9,152	4,849	65.4% (15)
05-5058.**.**	Maintenance Equip. & Facilities (Common)	1,004		1,004	-	1,004	0.0%
05-5069.**.**	Misc-Capital-Dilution & Metering Study	30,000		30,000	9,155	20,845	30.5%
05-6500.**.**	IT Allocations in to PC's & Depts.	13,100		13,100	6,841	6,259	52.2%
	Total Other Expenses	332,536	1,663	334,199	249,833	84,366	74.8%
	Total Expenses	508,996	1,663	510,659	335,248	175,412	65.6%
08 - Pre Treatment							
Salary and Fringe							
08-5000.**.**	Regular Salaries-O&M	92,352		92,352	41,198	51,154	44.6%
08-5315.**.**	Comp Time - Environment	-		-	363	(363)	0.0%
08-5401.**.**	Fringe Benefits IN to PC's & Depts.	66,436		66,436	29,250	37,186	44.0%
	Total Payroll Costs	158,788	-	158,788	70,811	87,977	44.6%
Other Expenses							
08-5011.**.**	Laboratory Services	2,996		2,996	1,565	1,431	52.2%
08-5015.**.**	Management Support Services	2,004		2,004	-	2,004	0.0%
08-5016.**.**	Audit - Environmental	600		600	-	600	0.0%
08-5017.**.**	Legal Fees	2,504		2,504	-	2,504	0.0%
08-5018.**.**	Public Notices/ Public Relations	5,004		5,004	107	4,897	2.1%
08-5021.**.**	Small Vehicle Expense - 31A	1,056		1,056	43	1,013	4.1%
08-5022.**.**	Miscellaneous Expense	2,004		2,004	-	2,004	0.0%
08-5026.**.**	Small Vehicle Fuel - 37A	1,500		1,500	288	1,212	19.2%
08-5027.**.**	Insurance - Property/Liability	2,160	575	2,735	1,771	964	64.8%
08-5028.**.**	Small Tools & Supplies	3,876		3,876	1,215	2,661	31.4%
08-5031-02-00-00	Safety Program & Supplies	-		-	197	(197)	0.0%
08-5034.**.**	Travel Expense/Tech. Conferences	4,348		4,348	-	4,348	0.0%
08-5035.**.**	Training Expense	1,564		1,564	1,035	529	66.2%
08-5038.**.**	Permits and Fines	10,012		10,012	-	10,012	0.0%
08-5039.**.**	Membership Dues/Fees	1,016		1,016	409	607	40.3% (10)
08-6500.**.**	IT Allocations in to PC's & Depts.	11,840		11,840	6,187	5,653	52.3%
	Total Other Expenses	52,484	575	53,059	12,817	40,242	24.2%
	Total Expenses	211,272	575	211,847	83,628	128,219	39.5%
12 - Water Reclamation Permits							
Salary and Fringe							
12-5000.**.**	Regular Salaries-O&M	35,084		35,084	36,973	(1,889)	105.4% (16)
12-5401.**.**	Fringe Benefits IN to PC's & Depts.	25,248		25,248	26,251	(1,003)	104.0% (16)
	Total Payroll Costs	60,332	-	60,332	63,223	(2,891)	104.8%
Other Expenses							
12-5015.**.**	Management Support Services	270,000		270,000	71,947	198,053	26.6%
12-5017.**.**	Legal Fees	2,004		2,004	-	2,004	0.0% (1)
12-5027.**.**	Insurance - Property/Liability	2,364	629	2,993	2,002	992	66.9%
12-5034.**.**	Travel Expense/Tech. Conferences	2,280		2,280	-	2,280	0.0%
12-5038.**.**	Permits	20,000		20,000	882	19,118	4.4% (1)
12-6500.**.**	IT Allocations in to PC's & Depts.	4,508		4,508	2,352	2,157	52.2%
	Total Other Expenses	301,156	629	301,785	77,183	224,602	25.6%
	Total Expenses	361,488	629	362,117	140,406	221,711	38.8%

South Orange County Wastewater Authority
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For the Period Ended December 31, 2019

		FY 2019-20 Budget	Board Approved Expenditures	Adjusted Budget	Actual	(Over)/Under Budget	%Expended
15 - Coastal Treatment Plant							
Salary and Fringe							
15-5000.**.**	Regular Salaries-O&M	954,416	1,115	955,531	429,885	525,646	45.0%
15-5001.**.**	Overtime Salaries-O&M	18,928		18,928	11,951	6,977	63.1%
15-5306.**.**	Scheduled Holiday Work	2,596		2,596	2,455	141	94.6%
15-5315.**.**	Comp Time - O&M	4,288		4,288	780	3,508	18.2%
15-5401.**.**	Fringe Benefits IN to PC's & Depts.	686,636		686,636	305,219	381,417	44.5%
15-5700.**.**	Standby Pay	27,040		27,040	4,620	22,420	17.1%
	Total Payroll Costs	1,693,904	1,115	1,695,019	754,910	940,109	44.5%
Other Expenses							
15-5002.**.**	Electricity	270,960		270,960	125,068	145,892	46.2%
15-5003.**.**	Natural Gas	3,000		3,000	277	2,723	9.2%
15-5004.**.**	Potable & Reclaimed Water	30,996		30,996	11,808	19,188	38.1%
15-5006.**.**	Chlorine/Sodium Hypochlorite	99,000		99,000	46,216	52,784	46.7%
15-5007.**.**	Polymer Products	1,004		1,004	-	1,004	0.0%
15-5008.**.**	Ferric Chloride	28,368		28,368	23,057	5,311	81.3% (5)
15-5009.**.**	Odor Control Chemicals	56,216		56,216	20,638	35,578	36.7%
15-5011.**.**	Laboratory Services	14,000		14,000	7,353	6,648	52.5%
15-5012.**.**	Grit Hauling	30,000		30,000	10,942	19,058	36.5%
15-5013.**.**	Landscaping	50,548		50,548	11,965	38,583	23.7%
15-5014.**.**	Engineering - Misc.	1,000		1,000	-	1,000	0.0%
15-5015.**.**	Management Support Services	4,500		4,500	2,134	2,366	47.4%
15-5017.**.**	Legal Fees	15,000		15,000	1,056	13,944	7.0%
15-5019.**.**	Contract Services Misc.	59,036		59,036	44,657	14,379	75.6%
15-5021.**.**	Small Vehicle Expense - 31A	6,004		6,004	148	5,856	2.5%
15-5022.**.**	Miscellaneous Expense	2,996		2,996	324	2,672	10.8%
15-5023.**.**	Office Supplies - All	4,004		4,004	4,226	(222)	105.5% (17)
15-5024.**.**	Petroleum Products	1,660		1,660	1,624	36	97.8%
15-5025.**.**	Uniforms	9,000		9,000	5,696	3,304	63.3%
15-5026.**.**	Small Vehicle Fuel - 37A	5,000		5,000	596	4,404	11.9%
15-5027.**.**	Insurance - Property/Liability	35,372	9,416	44,788	28,706	16,082	64.1%
15-5028.**.**	Small Tools & Supplies	9,524		9,524	8,506	1,018	89.3% (18)
15-5030.**.**	Trash Disposal	2,996		2,996	896	2,100	29.9%
15-5031.**.**	Safety Program & Supplies	36,048		36,048	13,855	22,193	38.4% (8)
15-5032.**.**	Equipment Rental	1,000		1,000	-	1,000	0.0%
15-5033.**.**	Recruitment	1,000		1,000	247	753	24.7%
15-5034.**.**	Travel Expense/Tech. Conferences	15,968		15,968	5,356	10,612	33.5%
15-5035.**.**	Training Expense	13,268		13,268	6,034	7,234	45.5%
15-5036.**.**	Laboratory Supplies	16,500		16,500	9,500	7,000	57.6%
15-5037.**.**	Office Equipment	2,000		2,000	682	1,318	34.1%
15-5038.**.**	Permits	23,236		23,236	2,038	21,198	8.8%
15-5039.**.**	Membership Dues/Fees	2,368		2,368	5,071	(2,703)	214.2% (10)
15-5047.**.**	Access Road Expenses	49,000		49,000	21,506	27,494	43.9%
15-5048.**.**	Storm Damage	20,008		20,008	549	19,459	2.7%
15-5050.**.**	Contract Services Generators - 29A	4,004		4,004	-	4,004	0.0%
15-5052.**.**	Janitorial Services	20,008		20,008	5,598	14,410	28.0%
15-5054.**.**	Diesel Truck Maint - 31B	996		996	-	996	0.0%
15-5055.**.**	Diesel Truck Fuel - 37B	996		996	-	996	0.0%
15-5057.**.**	Maintenance Equip. & Facilities (Liquids)	179,000		179,000	52,774	126,226	29.5%
15-5058.**.**	Maintenance Equip. & Facilities (Common)	22,000		22,000	5,578	16,422	25.4%
15-5060.**.**	Maintenance Equip. & Facilities (AWT) 41-E	37,000		37,000	9,121	27,879	24.7%
15-5061-01-00-00	Mileage	-		-	338	(338)	0.0%
15-5076.**.**	SCADA Infrastructure	6,996		6,996	-	6,996	0.0%
15-5077-01-00-00	IT Direct	-		-	3,239	(3,239)	0.0% (19)
15-5303.**.**	Group Insurance Waiver	3,604		3,604	1,849	1,755	51.3%
15-5305.**.**	Medicare Tax Payments for Employees	1,668		1,668	1,003	665	60.1%
15-5705.**.**	Monthly Car Allowance	4,200		4,200	2,158	2,042	51.4%
15-6500.**.**	IT Allocations in to PC's & Depts.	122,436		122,436	63,947	58,489	52.2%
	Total Other Expenses	1,323,488	9,416	1,332,904	566,336	766,568	42.5%
	Total Expenses	3,017,392	10,532	3,027,924	1,321,246	1,706,678	43.6%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
 For the Period Ended December 31, 2019

		FY 2019-20 Budget	Board Approved Expenditures	Adjusted Budget	Actual	(Over)/Under Budget	%Expended
17 - Joint Regional Wastewater Reclamation and Sludge Handling							
Salary and Fringe							
17-5000.**.**	Regular Salaries-O&M	1,797,416	4,129	1,801,545	824,582	976,963	45.8%
17-5001.**.**	Overtime Salaries-O&M	54,072		54,072	15,275	38,797	28.2% (1)
17-5306.**.**	Scheduled Holiday Work	12,772		12,772	6,807	5,965	53.3%
17-5315-02-01-00	Comp Time - O&M	-		-	421	(421)	0.0% (1)
17-5401.**.**	Fringe Benefits IN to PC's & Depts.	1,293,120		1,293,120	585,453	707,667	45.3%
17-5700.**.**	Standby Pay	27,040		27,040	16,974	10,066	62.8%
	Total Payroll Costs	3,184,420	4,129	3,188,549	1,449,512	1,739,037	45.5%
Other Expenses							
17-5002.**.**	Electricity	351,916		351,916	213,637	138,279	60.7% (20)
17-5003.**.**	Natural Gas	95,000		95,000	65,067	29,933	68.5% (21)
17-5004.**.**	Potable & Reclaimed Water	29,996		29,996	12,544	17,452	41.8%
17-5005.**.**	Co-generation Power Credit	(325,004)		(325,004)	(326,388)	1,384	100.4% (20)
17-5006.**.**	Chlorine/Sodium Hypochlorite	402,000		402,000	218,081	183,919	54.2% (22)
17-5007.**.**	Polymer Products	482,000		482,000	201,501	280,499	41.8%
17-5008.**.**	Ferric Chloride	172,888		172,888	131,711	41,177	76.2% (5)
17-5009.**.**	Odor Control Chemicals	44,796		44,796	21,351	23,445	47.7%
17-5010.**.**	Other Chemicals - Misc.	1,996		1,996	-	1,996	0.0%
17-5011.**.**	Laboratory Services	16,500		16,500	8,270	8,230	50.1%
17-5012.**.**	Grit Hauling - 21A	47,000		47,000	30,267	16,733	64.4% (23)
17-5013.**.**	Landscaping	67,668		67,668	20,548	47,120	30.4%
17-5014.**.**	Engineering - Misc.	-		-	-	-	0.0%
17-5015.**.**	Management Support Services	13,204		13,204	15,099	(1,895)	114.4% (24)
17-5017.**.**	Legal Fees	1,500		1,500	7,695	(6,195)	513.0% (25)
17-5019.**.**	Contract Services Misc.	80,720		80,720	48,464	32,256	60.0%
17-5021.**.**	Small Vehicle Expense	7,000		7,000	7,316	(316)	104.5% (26)
17-5022.**.**	Miscellaneous Expense	5,004		5,004	387	4,617	7.7%
17-5023.**.**	Office Supplies - All	11,000		11,000	6,548	4,452	59.5%
17-5024.**.**	Petroleum Products	33,220		33,220	7,354	25,866	22.1%
17-5025.**.**	Uniforms	25,004		25,004	15,645	9,359	62.6%
17-5026.**.**	Small Vehicle Fuel	9,996		9,996	3,301	6,695	33.0%
17-5027.**.**	Insurance - Property/Liability	88,132	23,461	111,593	71,674	39,919	64.2%
17-5028.**.**	Small Tools & Supplies	25,976		25,976	20,620	5,356	79.4% (18)
17-5030.**.**	Trash Disposal	1,996		1,996	1,195	801	59.9%
17-5031.**.**	Safety Program & Supplies	39,648		39,648	36,779	2,869	92.8% (8)
17-5032.**.**	Equipment Rental	3,004		3,004	-	3,004	0.0%
17-5033.**.**	Recruitment	1,004		1,004	959	45	95.5%
17-5034.**.**	Travel Expense/Tech. Conferences	15,956		15,956	15,976	(20)	100.1% (9)
17-5035.**.**	Training Expense	15,172		15,172	4,506	10,666	29.7%
17-5036.**.**	Laboratory Supplies	23,208		23,208	10,564	12,644	45.5%
17-5037.**.**	Office Equipment	10,000		10,000	1,451	8,549	14.5%
17-5038.**.**	Permits	41,624		41,624	4,236	37,388	10.2%
17-5039.**.**	Membership Dues/Fees	4,312		4,312	5,864	(1,552)	136.0% (10)
17-5049.**.**	Biosolids Disposal	905,004		905,004	489,659	415,345	54.1%
17-5050.**.**	Contract Services Generators - 29A	8,000		8,000	-	8,000	0.0%
17-5052.**.**	Janitorial Services	41,000		41,000	14,082	26,918	34.3%
17-5054.**.**	Diesel Truck Maint	19,004		19,004	14,498	4,506	76.3% (27)
17-5055.**.**	Diesel Truck Fuel - 37B	8,000		8,000	3,086	4,914	38.6%
17-5056.**.**	Maintenance Equip. & Facilities (Solids)	201,000		201,000	75,935	125,065	37.8%
17-5057.**.**	Maintenance Equip. & Facilities (Liquids)	230,000		230,000	96,193	133,807	41.8%
17-5058.**.**	Maintenance Equip. & Facilities (Common)	35,000		35,000	17,345	17,655	49.6% (29)
17-5059.**.**	Maintenance Equip. & Facilities (Co-Gen)	588,000		588,000	219,794	368,206	37.4%
17-5060.**.**	Maintenance Equip. & Facilities (AWT)	37,000		37,000	27,873	9,127	75.3% (28)
17-5061.**.**	Mileage	1,004		1,004	511	493	50.9%
17-5068.**.**	MNWD Potable Water Supplies & Svcs.	24,972		24,972	9,522	15,450	38.1%
17-5076.**.**	SCADA Infrastructure	7,000		7,000	-	7,000	0.0%
17-5077.**.**	IT Direct	8,040		8,040	3,239	4,801	40.3% (30)
17-5105.**.**	Co-Generation Power Credit - Offset	325,000		325,000	326,388	(1,388)	100.4% (20)
17-5303.**.**	Group Insurance Waiver	7,192		7,192	3,699	3,493	51.4%
17-5705.**.**	Monthly Car Allowance	11,392		11,392	4,315	7,077	37.9%
17-5706.**.**	Effluent Pond Cleaning	90,000		90,000	-	90,000	0.0%
17-6500.**.**	IT Allocations in to PC's & Depts.	230,586		230,586	120,429	110,157	52.2%
	Total Other Expenses	4,620,630	23,461	4,644,091	2,308,898	2,335,193	49.7%
	Total Expenses	7,805,050	27,590	7,832,640	3,758,410	4,074,230	48.0%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended December 31, 2019

		FY 2019-20 Budget	Board Approved Expenditures	Adjusted Budget	Actual	(Over)/Under Budget	%Expended
21 - Effluent Transmission Main							
Salary and Fringe							
21-5000-01-14-00	Regular Salaries-O&M	-	-	-	503	(503)	0.0%
21-5401-01-00-00	Fringe Benefits IN to PC's & Depts.	-	-	-	357	(357)	0.0%
	Total Payroll Costs	-	-	-	859	(859)	0.0%
Other Expenses							
21-5014-02-00-00	Engineering - Misc.	-	-	-	-	-	0.0%
21-5019-02-00-00	Contract Services Misc. - 29	-	-	-	157	(157)	0.0%
21-5027-**-**-**	Insurance - Property/Liability	740	197	937	569	368	60.7%
	Total Other Expenses	740	197	937	726	211	77.5%
	Total Expenses	740	197	937	1,585	(648)	169.2%
23 - North Coast Interceptor							
Other Expenses							
23-5011-02-00-00	Laboratory Services	-	-	-	11,200	(11,200)	0.0%
23-5015-01-00-00	Management Support Services	-	-	-	4,195	(4,195)	0.0%
23-5017-01-00-00	Legal Fees	-	-	-	536	(536)	0.0%
	Total Other Expenses	-	-	-	15,931	(15,931)	0.0%
		-	-	-	15,931	(15,931)	0.0%
24 - Aliso Creek Ocean Outfall							
Salary and Fringe							
24-5000-**-**-**	Regular Salaries-O&M	99,608	-	99,608	51,282	48,326	51.5%
24-5001-**-**-**	Overtime Salaries-O&M	460	-	460	533	(73)	115.9%
24-5306-01-11-00	Scheduled Holiday Work	-	-	-	337	(337)	0.0%
24-5315-02-11-00	Comp Time - O&M	-	-	-	68	(68)	0.0%
24-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	71,648	-	71,648	36,411	35,237	50.8%
	Total Payroll Costs	171,716	-	171,716	88,631	83,085	51.6%
Other Expenses							
24-5015-**-**-**	Management Support Services	22,496	-	22,496	723	21,773	3.2%
24-5017-**-**-**	Legal Fees	1,004	-	1,004	-	1,004	0.0%
24-5027-**-**-**	Insurance - Property/Liability	6,524	1,737	8,261	5,265	2,996	63.7%
24-5031-**-**-**	Safety Supplies	1,004	-	1,004	-	1,004	0.0%
24-5034-**-**-**	Travel Expense/Tech. Conferences	3,704	-	3,704	1,925	1,779	52.0%
24-5035-**-**-**	Training Expense	6,008	-	6,008	-	6,008	0.0%
24-5036-**-**-**	Laboratory Supplies	19,560	-	19,560	6,126	13,435	31.3%
24-5038-**-**-**	Permits	186,756	-	186,756	184,769	1,987	98.9% (13)
24-5039-**-**-**	Membership Dues/Fees	5,500	-	5,500	-	5,500	0.0%
24-5044-**-**-**	Offshore Monitoring	18,000	-	18,000	15,806	2,194	87.8% (14)
24-5046-**-**-**	Effluent Chemistry	14,004	-	14,004	9,467	4,538	67.6% (15)
24-5058-**-**-**	Maintenance Equip. & Facilities (Common) 41-C	1,004	-	1,004	-	1,004	0.0%
24-5069-**-**-**	Outfall Inspection/Port Cleaning	30,004	-	30,004	6,595	23,409	22.0%
24-6500-**-**-**	IT Allocations in to PC's & Depts.	12,776	-	12,776	6,673	6,103	52.2%
	Total Other Expenses	328,344	1,737	330,081	237,348	92,733	71.9%
	Total Expenses	500,060	1,737	501,797	325,979	175,818	65.0%
	Total O&M Expenses	18,346,162	66,218	18,412,380	8,891,678	9,520,703	48.3%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
 For the Period Ended December 31, 2019

- (1) Comp Time utilization above Overtime and considering both line items together, JBL and CTP are slightly over budget and RTP is under budget.
- (2) Standby Pay is elevated due to the rotation schedule of the staff. The overall Standby Pay for O&M is on Budget and is anticipated to level out over the FY.
- (3) Power costs are elevated, and the line item Budget may need to be adjusted due to high energy demand charges as discussed with the Board in May 2019.
- (4) A leak in the fiberglass tank required staff to drain the bleach tank a refill it. The bleach drained from the leaking tank is being stored in temporary totes and will be used over the next few months.

 Ferric chloride usage continues to be elevated due to sulfur type filamentous bacteria entering the plants from the collection system. O&M staff has increased Ferric dosing to trying to settle the bacteria in the primary clarifiers prior to biological treatment because these bacteria do not settle well and impact effluent quality. These bacteria are becoming more prevalent in the collection system to the plants with lower and lower sewer flows. Ferric chloride usage is elevated in the summer at CTP and lowers in the winter; expenses are planned to level off.
- (5) Annual trees maintenance was completed at the beginning of the FY; expenses are planned to level off.
- (6) Staff completed the restocking of PPE for the upcoming Winter; expenses are planned to level off.
- (7) The first quarter included the purchase of new boots per the Employee Manual; expenses are planned to level off.
- (8) Two of the three planned major conferences were attended by staff in the first quarter of the Fiscal Year including, WEFTEC and HACHWIMS; expenses are planned to level off.
- (9) Membership renewals are primarily paid in July; expenses are planned to level off.
- (10) The access gates and parking lot lighting poles were removed and recoated due to deterioration and corrosion from the ocean air.
- (11) Software license for JBL's Lockout-Tagout procedures was purchased. Also, a JBL SCADA laptop was replaced. Since both items are directly attributed to JBL, they are charged to PC-2; expenses are planned to level off.
- (12) Costs to date include SOCWA's annual renewal of its NPDES and SCAQMD permits; expenses are planned to level off.
- (13) Additional costs due to replacement of moors in the ocean for sample location identification.
- (14) Monitoring costs on track with budgeted costs for annual monitoring requirements. Additional costs due to accelerated monitoring at the outfall due to chronic toxicity exceedance.
- (15) Intern time included in this budget line item.
- (16) CTP staff is overhauling the documents storage systems for the treatment plant; expenses are planned to level off.
- (17) O&M staff procured a number of tools at the beginning of the FY; expenses are planned to level off.
- (18) A CTP SCADA laptop was replaced and is directly attributed to CTP; expenses are planned to level off.

 Additional power is being purchased due to warranty work on the new engine. Power costs are elevated, and the line item Budget may need to be adjusted due to high energy demand charges as discussed with the Board in May during the approval of the FY 2019-20 Budget.
- (19) Budget may need to be adjusted due to high energy demand charges as discussed with the Board in May during the approval of the FY 2019-20 Budget.

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended December 31, 2019

- (21) Additional gas is being purchased due to warranty work on the new engine gas cleaning system.
- (22) Bleach usage is elevated in the summer at RTP and drops with lower recycled water demand in the winter; expenses are planned to level off.
- (23) Grit deliveries are higher than expected due to heavy rains pushing collections systems debris down the sewer and into the Treatment Plant.
- (24) RTP and CTP required additional stormwater assessments due to elevated levels of ammonia and bacteria under the industrial stormwater program; expenses are planned to level off.
- (25) Several O&M contracts are being reviewed and updated for the new engine at RTP.
- (26) O&M staff overhauled the tow motor used to move the grit bins around. The project was planned for next year but the unit failed quicker than expected.
- (27) Sludge hauling truck emissions control system and truck rental for Biosolids hauling to landfill.
- (28) O&M staff completed the annual overhaul of the AWT to prepare for summer. The project includes a complete shutdown, equipment inspection, and performing needed repairs.
- (29) The RTP Operations Building required a large plumbing project to replace leaking cast iron plumbing that was corroded and cracked; expenses are planned to level off.
- (30) An RTP SCADA laptop was replaced and is directly attributed to RTP; expenses are planned to level off.

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

For the Period Ended December 31, 2019

		FY 2019-20 Budget	Board Approved Expenditures	Adjusted Budget	Actual	(Over)/Under Budget	% Expended	
Salary and Fringe								
01-5000-03-00-00	Regular Salaries-O&M	207,349	714	208,063	113,667	94,396	54.6%	(1)
01-5302-03-01-00	Performance Based Merit Pay	-		-	-	-	0.0%	
01-5401-03-00-00	Fringe Benefits IN to PC's & Depts.	149,173		149,173	80,703	68,470	54.1%	(1)
	Total Payroll Costs	356,522	714	357,236	194,370	162,865	54.4%	
Other Expenses								
01-5015-03-00-00	Management Support Services	9,600		9,600	-	9,600	0.0%	
-5022--**-00	Miscellaneous Expense	3,121		3,121	69	3,052	2.2%	
01-5023-03-00-00	Office Supplies - All	204		204	-	204	0.0%	
01-5031-03-00-00	Safety Supplies	300		300	-	300	0.0%	
01-5033-03-00-00	Recruitment	-		-	14,539	(14,539)	0.0%	(2)
01-5034-03-00-00	Travel Expense/Tech. Conferences	12,625		12,625	3,153	9,472	25.0%	
01-5035-03-00-00	Training Expense	4,400		4,400	-	4,400	0.0%	
01-5037-03-00-00	Office Equipment	400		400	-	400	0.0%	
01-5039-03-00-00	Membership Dues/Fees	1,350		1,350	210	1,140	15.6%	
01-5061-03-00-00	Mileage	500		500	165	335	33.1%	
01-5309-03-00-00	Operating Leases	6,695		6,695	3,793	2,902	56.7%	
01-5705-03-00-00	Monthly Car Allowance	5,250		5,250	2,820	2,430	53.7%	(1)
01-5802-03-00-00	Shipping/Freight	306		306	-	306	0.0%	
01-6500-03-00-00	IT Allocations in to PC's & Depts.	55,588		55,588	29,033	26,555	52.2%	
	Total Other Expenses	100,339	-	100,339	53,782	46,557	53.6%	
	Total Engineering Expenses	456,862	714	457,575	248,153	209,422	54.2%	

(1) The 2nd quarter will have a significantly lower percentage expended due to reduced staff effective on 10/1.

(2) Staffing costs; Director Engineering and Sr. Engineer.

**South Orange County Wastewater Authority
Budget vs. Actual Comparison- Administration**
For the Period Ended December 31, 2019

	FY 2019-20 Budget	Board Approved Expenditures	Adjusted Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe						
01-6000-04-00-00 Regular Salaries-Admin or IT	1,030,445	3,092	1,033,537	488,948	544,590	47.3%
01-6001-04-00-00 Overtime Salaries-Admin or IT	6,000		6,000	10,186	(4,186)	169.8%
01-6315-04-00-00 Comp Time - Admin	5,000		5,000	5,671	(671)	113.4%
01-6401-04-00-00 Fringe Benefits IN to ADMIN or IT	741,332		741,332	347,153	394,179	46.8%
Total Payroll Costs	1,782,777	3,092	1,785,869	851,958	933,911	47.7%
Other Expenses						
01-6101-04-00-00 HR Recruitment & Employee Relations	34,200		34,200	11,827	22,373	34.6%
01-6102-04-00-00 Subscriptions	2,000		2,000	557	1,443	27.9%
01-6200-04-00-00 Management Support Services	100,000		100,000	47,338	52,662	47.3%
01-6201-04-00-00 Audit	45,000		45,000	30,000	15,000	66.7%
01-6202-04-00-00 Legal	250,000		250,000	112,067	137,934	44.8%
01-6204-04-00-00 Postage	2,400		2,400	2,939	(539)	122.5%
01-6223-04-00-00 Office Supplies - Admin	6,000		6,000	3,706	2,294	61.8%
01-6224-04-00-00 Office Equipment Admin or IT	400		400	543	(143)	135.9%
01-6234-04-00-00 Memberships & Trainings	90,000		90,000	67,911	22,089	75.5%
01-6239-04-00-00 Travel & Conference	21,500		21,500	7,732	13,768	36.0%
01-6310-04-00-00 Miscellaneous	23,000		23,000	20,709	2,291	90.0%
01-6311-04-00-00 Mileage	1,188		1,188	298	890	25.1%
01-6317-04-00-00 Contract Services Misc	5,500		5,500	2,743	2,757	49.9%
01-6500-04-00-00 IT Allocations in to PC's & Depts.	132,191		132,191	69,041	63,150	52.2%
01-6601-04-00-00 Shipping/Freight	3,667		3,667	2,864	803	78.1%
01-6705-04-00-00 Monthly Car Allowance	12,000		12,000	6,165	5,835	51.4%
Total Other Expenses	729,046	-	729,046	386,442	342,604	53.0%
Total Admin Expenses	2,511,823	3,092	2,514,915	1,238,400	1,276,516	49.2%

South Orange County Wastewater Authority
Budget vs. Actual Comparison-IT
 For the Period Ended December 31, 2019

		FY 2019-20 Budget	Board Approved Expenditures	Adjusted Budget	Actual	(Over)/Under Budget	% Expended
Salary & Fringe							
01-6000-05-00-00	Regular Salaries-Admin or IT	98,482	518	99,000	45,573	53,428	46.3%
01-6001-05-00-00	Overtime Salaries-Admin or IT	-		-	4,053	(4,053)	0.0%
01-6315-05-00-00	Comp Time - IT	-			-	-	0.0%
01-6401-05-00-00	Fringe Benefits IN to ADMIN or IT	70,851		70,851	32,374	38,477	45.7%
	Total Salary & Fringe	169,333	518	169,851	82,000	87,851	48.4%
Other Expenses							
01-5028-05-00-00	Small Tools & Supplies	1,000		1,000	-	1,000	0.0%
01-5037-05-00-00	Office Equipment	600		600	-	600	0.0%
01-6102-05-00-00	Subscriptions	700		700	-	700	0.0%
01-6234-05-00-00	Memberships & Trainings	1,000		1,000	-	1,000	0.0%
01-6239-05-00-00	Travel & Conference	3,500		3,500	2,745	755	78.4%
01-6300-05-00-00	Software Maintenance Agreements	51,967		51,967	83,054	(31,087)	159.8% (1)
01-6301-05-00-00	Hardware Maintenance Agreements	7,126		7,126	4,443	2,683	62.3%
01-6302-05-00-00	Cloud Subscriptions (Internet)	75,124		75,124	39,034	36,090	52.0%
01-6303-05-00-00	Telecommunications	127,036		127,036	70,147	56,889	55.2%
01-6305-05-00-00	IT Professional Services	236,919		236,919	65,908	171,011	27.8%
01-6306-05-00-00	Small Hardware Purchases (< \$5k)	20,900		20,900	19,926	974	95.3%
01-6307-05-00-00	Small Software Purchases & Licenses (<\$5k)	24,908		24,908	8,904	16,004	35.7%
01-6308-05-00-00	IT Memberships	160		160	704	(544)	440.0%
01-6309-05-00-00	Operating Leases	55,200		55,200	29,179	26,021	52.9%
01-6310-05-00-00	Miscellaneous	5,000		5,000	865	4,135	17.3%
	Total Other Expenses	611,140	-	611,140	325,226	285,914	53.2%
	Total Expenses before Allocation	780,473	518	780,991	407,226	373,766	52.1%
IT Allocations (Out) to PC's & Depts							
01-6400-05-00-00	IT Allocations (OUT) to PC's & Depts.	(780,473)	(518)	(780,991)	(407,226)	(373,766)	52.2%
	Total IT Allocations (Out) to PC's & Depts	(780,473)	(518)	(780,991)	(407,226)	(373,766)	52.2%

(1) SCADA license agreement billed at the beginning of the fiscal year.

Agenda Item

4f

Board of Directors Meeting

Meeting Date: February 6, 2020

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Mary Carey, Finance Controller
SUBJECT: Fiscal Year 2018-19 Additional Cash Distribution to Member Agencies

Summary/Discussion

The Supplemental Financial Statements (including additional cash from other sources) were distributed and presented to the Finance Committee at the November 12, 2019 Finance Committee Meeting. Members requested additional time for review of all items including the Supplemental Financial Statements (FY 2018-19) and an additional Finance Committee meeting was held on December 10, 2019.

At the December 10, 2019 meeting staff reviewed with the Finance Committee the Additional Cash along with the FY 2018-19 Supplemental Financial Statements. On December 10, 2019, the Finance Committee recommended to the Board of Directors to receive and file the Fiscal Year 2018-19 Supplemental Financial Statements and the related Management Discussion and Analysis of the Statements.

The detailed report by Member Agency, Project Committee and Source of Cash is attached; a summary is below:

Fiscal Year 2018-19 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 District	Total
\$40,364	1,712	59,270	10,677	3,072	3,208	138,159	52,010	82,472	-	\$390,945

Recommended Action

Staff recommends to the Board of Directors to authorize staff to proceed with distribution of the Additional Cash from Other Sources to the Member Agencies as presented.

**South Orange County Wastewater Authority
Fiscal Year 2018-19 & Q4 FY 2017-18 Additional Cash Payout**

PC 2 Cost Sharing between SOCWA and Condominium Development for Divider Wall						
	CSJC	MNWD	SMWD	SCWD	Total	
38,159.00	11,741.52	8,807.10	6,605.32	11,005.06	38,159.00	
38,159.00	11,447.70	8,249.98	10,829.52	7,631.80	38,159.00	
<u>76,318.00</u>	<u>23,189.22</u>	<u>17,057.07</u>	<u>17,434.85</u>	<u>18,636.86</u>	<u>76,318.00</u>	

Cash from Other Sources											
Interest Income FY 2018-19											
	CLB	CSC	CSJC	ETWD	EBS	IRWD	MNWD	SMWD	SCWD	TCWD	Total
PC 2	0.00	0.00	31,832.29	0.00	0.00	0.00	23,373.33	24,780.14	25,029.19	0.00	105,014.94
PC 5	0.00	1,026.05	684.06	0.00	0.00	0.00	957.51	2,728.08	769.84	0.00	6,165.53
PC 15	17,447.06	0.00	0.00	0.00	1,376.13	0.00	13,450.84	0.00	16,813.63	0.00	49,087.66
PC 17	3,674.25	0.00	0.00	6,604.59	193.37	0.00	68,358.35	0.00	2,934.51	0.00	81,765.07
PC 21	0.00	0.00	0.00	2,412.22	0.00	2,412.19	0.00	0.00	0.00	0.00	4,824.41
PC 24	288.73	0.00	0.00	427.85	20.47	413.67	1,150.99	0.00	323.12	0.00	2,624.83
Total	21,410.04	1,026.05	32,516.34	9,444.65	1,589.98	2,825.86	107,291.02	27,508.22	45,870.30	0.00	249,482.45

Interest Income Q4 FY 2017-18											
	CLB	CSC	CSJC	ETWD	EBS	IRWD	MNWD	SMWD	SCWD	TCWD	Total
PC 2	0.00	0.00	3,022.41	0.00	0.00	0.00	2,178.02	2,255.23	2,442.46	0.00	9,898.13
PC 3	0.00	0.00	0.00	0.00	0.00	0.00	7,476.90	2,925.02	0.00	0.00	10,401.91
PC 5	0.00	685.55	457.05	0.00	0.00	0.00	639.76	1,822.76	514.37	0.00	4,119.48
PC 15	14,625.31	0.00	0.00	0.00	1,153.84	0.00	(3,791.87)	0.00	11,503.83	0.00	23,491.11
PC 17	313.73	0.00	0.00	584.05	16.46	0.00	2,061.57	0.00	250.50	0.00	3,226.31
PC 21	0.00	0.00	0.00	290.49	0.00	290.48	0.00	0.00	0.00	0.00	580.97
PC 24	64.24	0.00	0.00	95.20	4.56	92.04	256.09	0.00	71.89	0.00	584.02
Total	15,003.28	685.55	3,479.46	969.73	1,174.85	382.53	8,820.47	7,003.00	14,783.06	0.00	52,301.94

Fixed Assets Sale											
	CLB	CSC	CSJC	ETWD	EBS	IRWD	MNWD	SMWD	SCWD	TCWD	Total
PC 15	3,683.85				290.07		2,842.66		2,900.67		9,717.25
PC 17	94.57			154.75	4.98		1,178.38		75.58		1,508.25
Total	3,778.42	0.00	0.00	154.75	295.04	0.00	4,021.04	0.00	2,976.25	0.00	11,225.50

Recycling Income											
	CLB	CSC	CSJC	ETWD	EBS	IRWD	MNWD	SMWD	SCWD	TCWD	Total
PC 2			85.39				62.81	64.20	68.64		281.04
PC 15	106.54				8.39		82.21		83.89		281.04
PC 17	66.18			108.30	3.48		824.67		52.89		1,055.52
Total	172.72	0.00	85.39	108.30	11.87	0.00	969.69	64.20	205.42	0.00	1,617.60

Total Other Sources	40,364.47	1,711.60	36,081.20	10,677.43	3,071.74	3,208.39	121,102.23	34,575.42	63,835.02	0.00	314,627.49
Grand Total	40,364.47	1,711.60	59,270.42	10,677.43	3,071.74	3,208.39	138,159.30	52,010.27	82,471.88	0.00	390,945.49

Agenda Item

4g

Board of Directors Meeting

Meeting Date: February 6, 2020

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Jim Burror, Director of Operations
SUBJECT: December 2019 Operations Report

Summary/Discussion

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

1. Monthly Operational Report

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, 2019

Excursion, Complaint, and Violation Event

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

(1) Both treatment violations were caused by high inflow during the 12/23 storm.

(2) Both noise complaints were from pumps trucks cleaning out a grit chamber after the 12/4 storm.

Plant Wastewater Billing Characteristics

Key Parameters	CTP	RTP	JBL TP1	JBL TP2	Totals
Influent (mgd) (1)	2.10	8.20	6.17	1.01	17.48
Effluent (mgd)	2.79	6.44	6.17	2.25	17.65
Peak Flow (mgd)	10.81	17.61	20.00	8.97	57.39
Influent BOD (mg/l)	298	244	449	280	
Influent TSS (mg/l)	367	294	1,193	517	
Effluent BOD (mg/l)	7.5	5.7	6.5	7.2	
Effluent TSS (mg/l)	10.0	13.7	9.4	10.4	
Effluent Turbidity (NTU)	3.3	5.3	4.2	3.6	

(1) Uncorrected flow for SCWD at CTP - The SCWD meter had errors that are being assessed by O&M staff. CTP Influent value does not include AWT backwash in this table.

Recycled Water (AWT) Operations

Key Parameters	CTP	RTP	JBL	Totals
Average Flow (mgd)	0.00	1.77		1.77
Days of Operation (days)	0	31		
Total Flow (million gallons)	0.0	54.8		54.8
Plant Irrigation (million gallons)	0.00	0.28	0.28	
AWT Time Online (%)	0.0	81.0		

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, 2019 (cont'd)

Biosolids Management

Biosolids Management Site	CTP	RTP	JBL	Totals
Synagro Compost (tons)		762.0	0.0	762.0
Nursery Products (tons)		371.5	769.8	1,141.3
Prima Deshecha (tons)		16.5	88.0	104.5
Other: (tons)		0.0	0.0	0.0
Total Processed (tons)		1,150.1	857.8	2,007.8

Summary of Maintenance Activities

Task Type	CTP	RTP	JBL	Totals
Preventative Maintenance	361	708	266	1,335
Corrective Maintenance	37	124	64	225

Site Visitors

Visitor Types	CTP	RTP	JBL	Totals
Regulatory	0	0	0	0
Member Agency	0	1	3	4
Residents	0	0	0	0
Others	12	16	38	66
Tours #/Visitors	0	0	0	0

Grit Disposal Management

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

Chemical and Energy Utilization

Chemical/Utility	CTP	RTP	JBL	Totals
Ferric Chloride (tons)	NA	43.6	NA	43.6
Utility Power Purchase (kWh)	191,211	-19,696	127,239	298,754
Cogen Power (kWh)		619,442	459,622	1,079,064
Natural Gas (Dth)	52	1,427	1,220	2,698
Digester Gas to Engine (scfm)		9,151,978	7,649,415	16,801,393
Digester Gas to Boiler (scfm)		0		0
Digester Gas to Flares (scfm)		25,173	332,583	357,756
Digester Gas Power Savings		\$50,650.72		

(1) The bills to calculate these values are received after this report is prepared for the Board meeting, but will be available upon request at the Board meeting.
 NA = Not Available at the time this report was generated.

Wastewater Unit Definitions

kWh = kilowatt hours

Dth = Dekatherms

scfm = standard cubic feet per minute

SOCWA Operational Report December, 2019 (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	1.615	76.65%				1.62
EBSB	0.045	2.12%				0.04
SCWD	0.447	21.23%		1.741	24.25%	2.19
MNWD	0.000	0.00%	8.20	1.400	19.50%	9.60
CSJC				2.182	30.39%	2.18
SMWD				1.856	25.86%	1.86
Total	2.107	100.00%	8.20	7.179	100.00%	17.49

Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	SJCOO Meter (mgd)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB				1.62	9.43%	1.62	
EBSB				0.04	0.26%	0.04	
SCWD	1.94	12.25%		1.13	6.58%	3.07	Includes Desalters
MNWD	2.92	18.40%		6.44	37.56%	9.35	
ETWD				3.65	21.32%	3.65	Direct Outfall Only
CSJC	2.43	15.31%				2.43	Includes Desalter
SMWD	4.98	31.42%				4.98	Includes Chiquita
CSC	3.58	22.62%				3.58	Direct Outfall Only
IRWD				4.26	24.85%	4.26	Direct Outfall Only
Total	15.85	100.00%	12.88	17.13	100.00%	32.98	

SOCWA Operational Report December, 2019 (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%	2.12	31.98%	2.182	30.39%	2.07	33.53%
MNWD	3.00	23.08%	1.40	21.12%	1.400	19.50%	1.40	22.72%
SCWD	3.75	28.85%	1.70	25.64%	1.741	24.25%	1.61	26.06%
SMWD	2.25	17.31%	1.41	21.27%	1.856	25.86%	1.09	17.69%
Total	13.00	100.00%	6.63	100.00%	7.179	100.00%	6.16	100.00%

Project Committee No. 2 Solids (JBL)

Agency	Own (lbs/d)	Own (%)	Budget (lbs/d)	Budget (%)	Month (lbs/d)	Month (%)	36 Month Rol. Avg. (lbs/d) (2)	36 Month Rol. Avg. (%)
CSJC	11,572	30.00%	5,767	24.54%	5,764	22.85%	5,958	29.18%
MNWD	8,340	21.62%	4,396	18.70%	5,532	21.93%	5,578	27.32%
SCWD	7,715	20.00%	5,391	22.94%	6,590	26.13%	5,250	25.71%
SMWD	10,946	28.38%	7,949	33.82%	7,335	29.08%	3,632	17.79%
Total	38,573	100.00%	23,503	100.00%	25,220	100.00%	20,418	100.00%

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

Agency	Own (%)	Variable Budget (mgd)	Variable Budget (%)	Month Outfall Flow (mgd)	Month Outfall Flow (%)	Month EPS Outfall Flow (mgd)	Month EPS Outfall Flow (%)
CSC	16.62%	2.531	21.57%	3.58	22.62%		
CSJC	11.08%	2.348	20.01%	2.43	15.31%	2.18	30.39%
MNWD(3)	15.51%	2.013	17.16%	2.92	18.40%	1.40	19.50%
SCWD	12.47%	1.740	14.83%	1.94	12.25%	1.74	24.25%
SMWD	44.32%	3.101	26.43%	4.98	31.42%	1.86	25.86%
Total	100.00%	11.733	3.10%	15.85	100.00%	7.18	100.00%

(1) Influent billing meter summary:

- CSJC is metered daily in the collection system. The area-velocity meter has an accuracy of +/- 20%.
- MNWD is assumed to be 1.4 mgd unless Treatment Plant 3A is discharging to the sewer. If other discharges occur, they are estimated.
- SCWD flows are the summation of the DPSD and Victoria PS meters. The two metering systems have an accuracy of +/- 10%.
- 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, 2019 (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	2.512	22.87%		
CSJC	2.683	24.42%	2.07	33.53%
MNWD	1.996	18.16%	1.40	22.72%
SCWD	1.797	16.35%	1.61	26.06%
SMWD	2.000	18.20%	1.09	17.69%
Total	10.988	100.00%	6.16	100.00%

Project Committee No. 15 (CTP)

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CLB	2.54	37.91%	1.770	59.00%	1.615	76.65%	1.646	68.06%
EBS	0.20	2.99%	0.050	1.67%	0.045	2.12%	0.047	1.95%
SCWD(1)	2.00	29.85%	1.180	39.33%	0.447	21.23%	0.725	29.99%
MNWD	1.96	29.25%	0.000	0.00%	0.000	0.00%	0.000	0.00%
Total	6.70	100.00%	3.000	100.00%	2.107	100.00%	2.419	100.00%

(1) Uncorrected flow for SCWD - The SCWD meter had errors that are being assessed by O&M staff.

Project Committee No. 17 Liquids (RTP)

Agency	Budget Liquids (mgd)	Budget Liquids (%)	Month Plant Influent (mgd)	Month Centrate (mgd)	Month Total (mgd)(1)	Month Total (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CLB	0.01220	0.157%	0.0000	0.0166	0.0166	0.20%	0.0137	0.18%
EBS	0.00040	0.005%	0.0000	0.0005	0.0005	0.01%	0.0004	0.01%
SCWD	0.00810	0.104%	0.0000	0.0046	0.0046	0.06%	0.0059	0.08%
ETWD	0.01410	0.181%	0.0000	0.0148	0.0148	0.18%	0.0147	0.19%
MNWD	7.75000	99.553%	8.2045	0.0569	8.2615	99.56%	7.6001	99.54%
Total	7.78480	100.000%	8.2045	0.0934	8.2979	100.00%	7.6349	100.00%

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

SOCWA Operational Report December, 2019 (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%	5,133	12.48%	214,887	17.80%	160,992	14.75%
EBSD	295	0.59%	158	0.38%	5,943	0.49%	4,626	0.42%
SCWD	4,480	8.96%	3,546	8.62%	59,510	4.93%	69,113	6.33%
ETWD	10,200	20.41%	5,755	13.99%	191,311	15.85%	171,665	15.73%
MNWD	29,395	58.82%	26,532	64.52%	735,703	60.94%	684,987	62.76%
Total	49,975	100.00%	41,124	100.00%	1,207,354	100.00%	1,091,383	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%	1.615	9.43%	1.646	19.71%
EBSD	0.780%	0.05	0.47%	0.045	0.26%	0.047	0.57%
ETWD	16.302%	2.46	23.08%	3.653	21.32%	2.170	25.98%
IRWD	15.760%	2.48	23.26%	4.257	24.85%	1.852	22.18%
MNWD	43.848%	3.08	28.89%	6.435	37.56%	2.290	27.42%
SCWD	12.310%	0.70	6.57%	1.126	6.58%	0.347	4.15%
Total	100.000%	10.66	100.00%	17.133	0.00%	8.352	100.00%

SOCWA Operational Report December, 2019 (cont'd)

Select Critical Equipment Repairs

JBL - PC2

Removed, rebuilt and reinstalled secondary 4/5 gear box which needed a full gasket overhaul.
Realigned sheaves and replaced belts on Grit Pump #1 which had failed.
Inspected and exercised stuck surge outfall vent valves.
Removed and replaces Digester 2 mix pump which had failed.
Jetted centrate lines at the centrifuge due to blockage.
Replaced and installed new supply air fan motor in Building 11.
Front parking lot security gates removed and reinstalled for powder coating.
Vacuum pumped Grit Hopper #2 in order to clear grit pump obstruction.
Replaced emergency power ATS for 9-side generator in conjunction with electrical department.
Collected and removed several pallets of e-waste from around the facility.
Assembled and installed new lockers in the maintenance shop for use.
Installed green screen wind barricade at the Flood Control Station.
Removed waste pump and diagnosed broken shaft in the 4-side basement.

CTP - PC15

Removed battery and troubleshot Solar Gate. Ensured that the gate closes properly while under maintenance and added concrete to gate posts.
Cleared headworks drain which had become clogged.
Replaced broken sandbags and prepared for December storms/flooding.
Flushed the Drain Pump Station drain line to troubleshoot failure.
Removed and replaced Drain Pump Station drain line due to struvite buildup.
Removed and replaced 2/3 caustic pump due to leaking packing gland.
Replaced compressor belt for the aeration blower discharge valve.
Assisted operations with access road maintenance and creek work.
Removed and repaired DAFT compressor relief valve which had failed.

RTP - PC17

Re-piped all centrifuge conveyor automatic grease lines and added additional zerker fittings.
Flushed and removed foliage from the front entrance drain which had become clogged.
Installed temporary bleach tanks for service while the new bulk storage tank is being built.
Prepared for wet weather conditions, including sand bag replacement and drain clean and inspections.
Replaced and re-piped sump pump in Non-Potable Water Bleach containment.
Replaced and re-piped sump pump in AWT Bleach containment.
Replaced and re-piped sump pump in electrical vault #2.
Installed new piping for 3W low pressure strainer waste lines.
Replaced all hardware for leaking AWT pulse air line which was leaking.
Installed 4" vent valves on all caustic bulk storage tanks.
Replaced packing gland and pillow block bearing on centrifuge elevating conveyor #2.
Fabricated new 3" steel discharge lines for SET sump pump 1 and 2.

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

SOCWA Operational Report December, 2019 (cont'd)

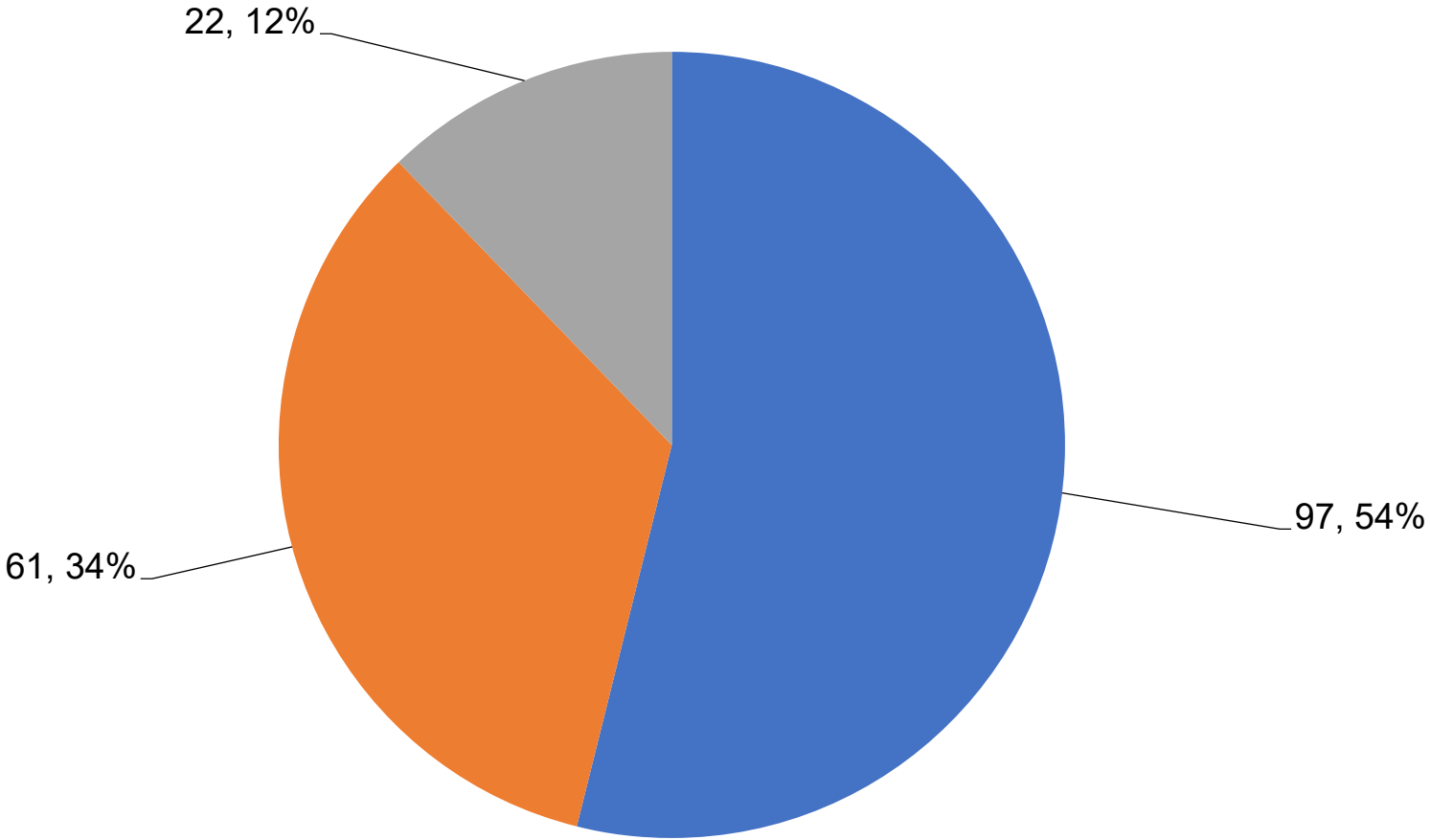
Select Critical Equipment Repairs (cont'd)

Support Services - ALL PC'S

Performed SCADA screen upgrades at RTP.
Programmed SLC-500 series processor with Rockwell automation at RTP.
Replaced bleach system PLC, which had failed at JBL.
Performed RAS programming and SCADA screen modifications at JBL.
Replaced failed Gas Scrubber PLC at JBL.
Performed troubleshooting for Gas Scrubber blower failure at JBL.
Upgraded EQ Basin low flow alarm specifications at JBL.
Performed troubleshooting and repair for the AWT flow meter at CTP.
Repaired SET level sensor at RTP.
Installed reversing starter for DAFT secondary drive 5&6 at JBL.
Installed explosion proof motor and disconnect for 9-side headworks supply air fan at JBL.
Upgraded outside lighting for buildings 3 and 6 at CTP.
Replaced motors for secondary flight drive 4&5 at JBL.
Replaced TWAS pressure switch for #2 bubbler control panel at RTP.
Replaced AWT control valve at RTP.
Pumped down rainwater from oil storage secondary containment at RTP.
Performed 750-hour emissions test at JBL for Cogen.
Coordinated 18k JBL engine service.

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

2nd Quarter (10/19 thru 12/19) Critical Equipment Corrective Maintenance Repairs (180)



- Beyond Expected Life Equipment Repairs
- Within Expected Useful Life Equipment Repairs
- No Installation Data or Utility Line Work

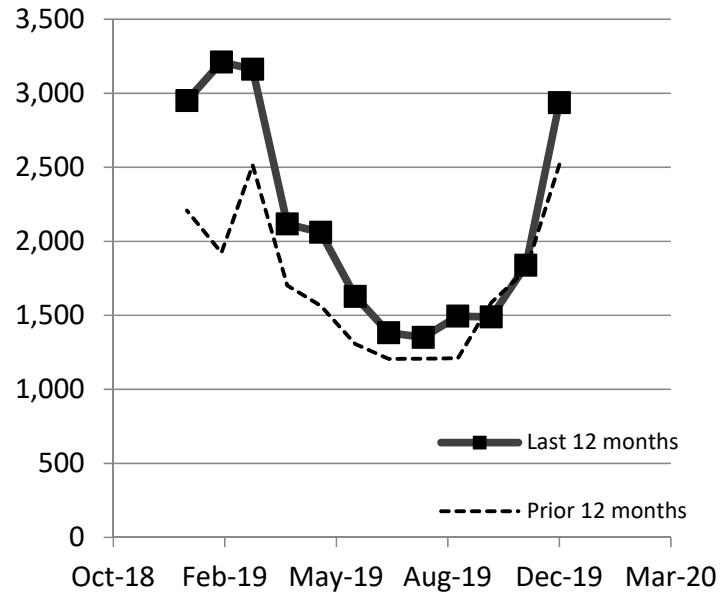
SOCWA Ocean Outfall Discharges by Agency

SOCWA Outfall Discharge Report December, 2019

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.62	9.43%	1.62
EBSD			0.04	0.26%	0.04
SCWD	1.94	12.25%	1.13	6.58%	3.07
MNWD	2.92	18.40%	6.44	37.56%	9.35
ETWD			3.65	21.32%	3.65
CSJC	2.43	15.31%			2.43
SMWD	4.98	31.42%			4.98
CSC	3.58	22.62%			3.58
IRWD			4.26	24.85%	4.26
Total	15.85	100.00%	17.13	100.00%	32.98
or Acre-Feet per year equivalent					36,937

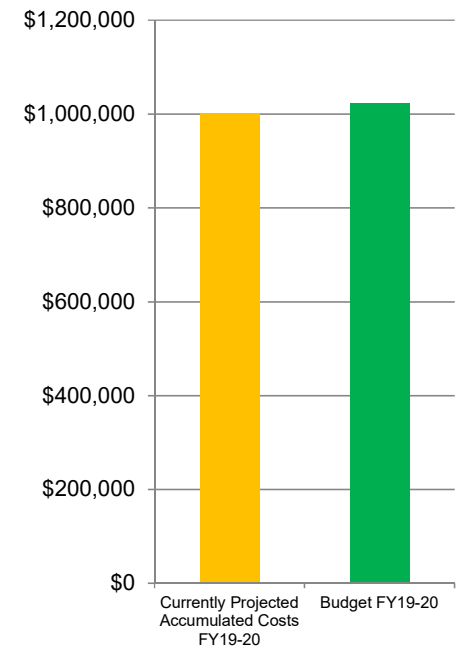
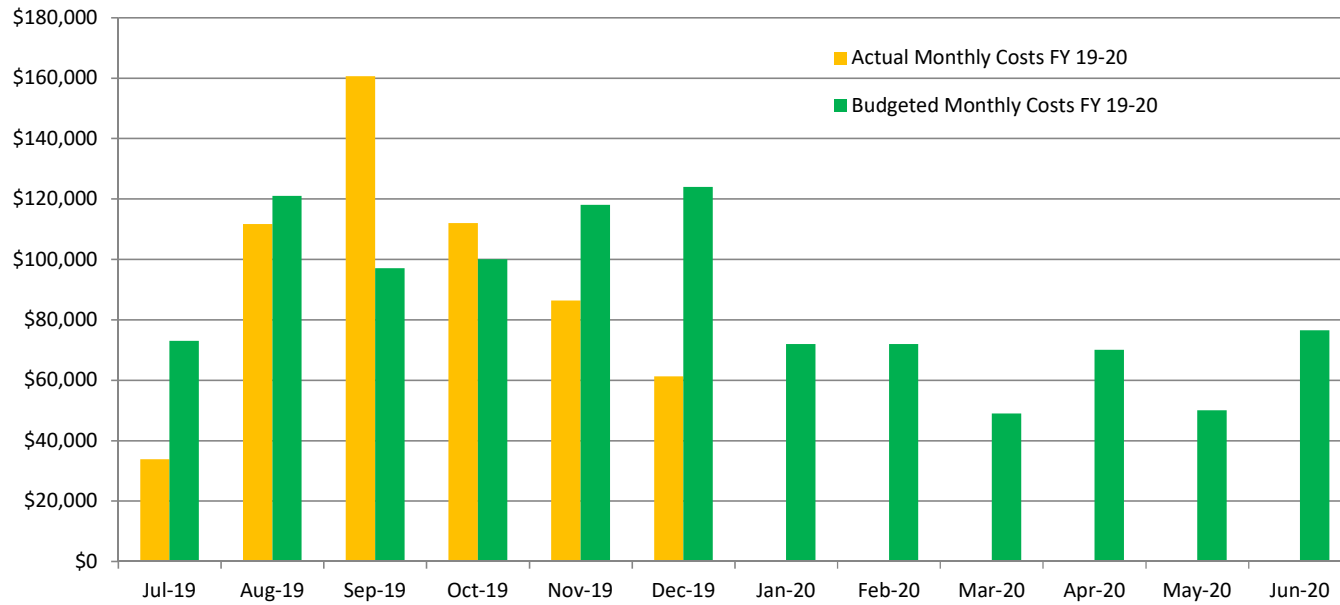
12-Month Running Total Discharge to Ocean Outfalls (AF)

Dec-19	2,937
Nov-19	1,839
Oct-19	1,489
Sep-19	1,495
Aug-19	1,351
Jul-19	1,382
Jun-19	1,628
May-19	2,061
Apr-19	2,117
Mar-19	3,163
Feb-19	3,211
Jan-19	2,950
Total	25,623



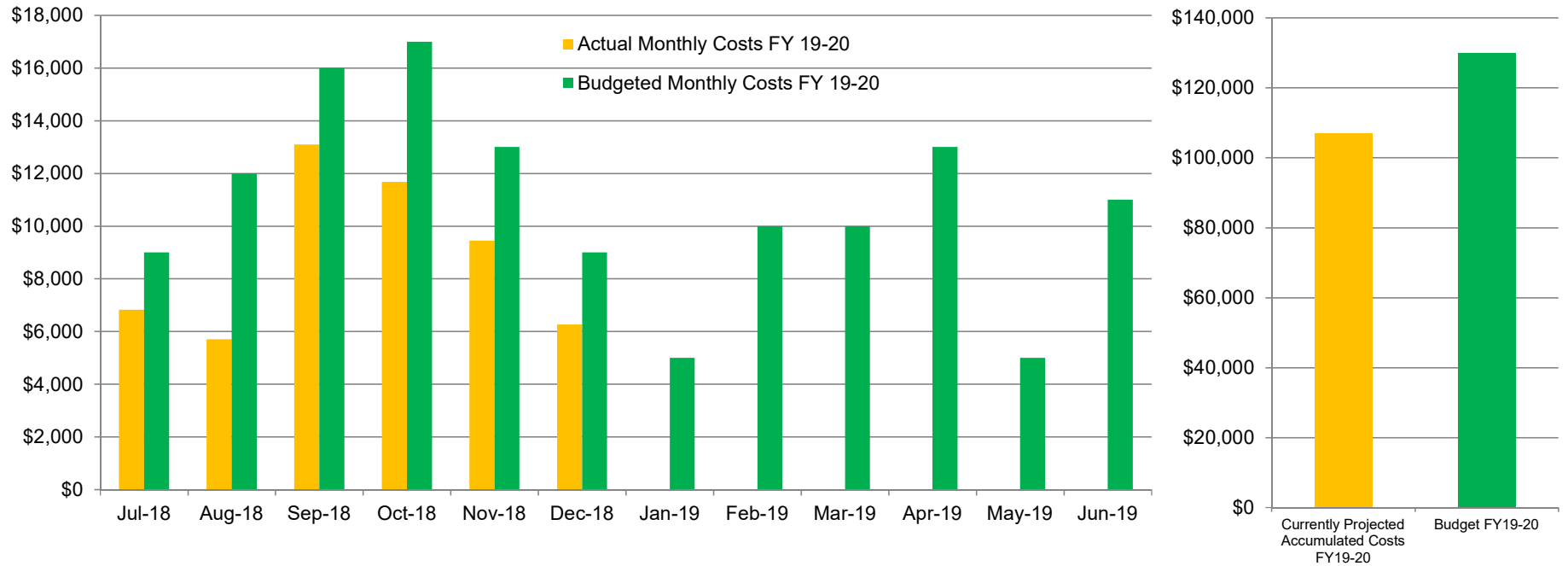
Quarterly Report on Key Operational Expenses

Electricity (5002) Costs



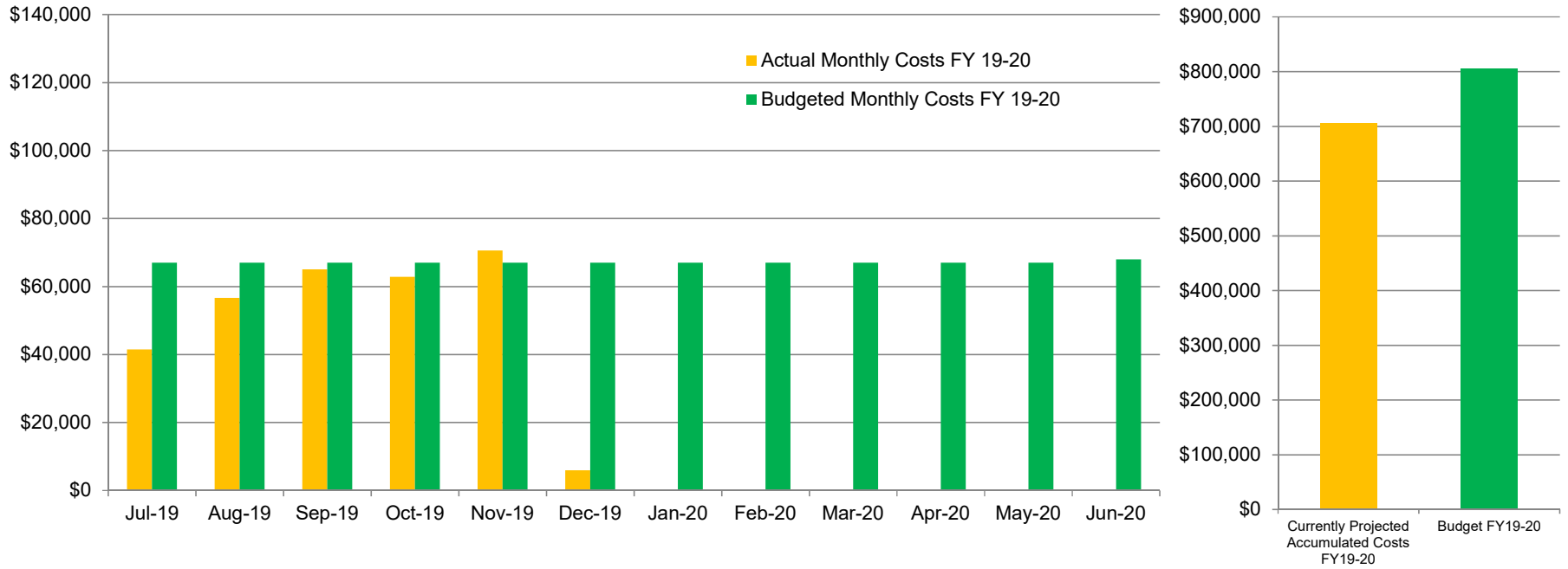
	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Currently Projected Accumulated Costs FY19-20	\$1,002,713
Actual Monthly Costs FY 19-20	\$33,806	\$111,663	\$160,639	\$111,957	\$86,370	\$61,278							Budget FY19-20	\$1,022,500
Budgeted Monthly Costs FY 19-20	\$73,000	\$121,000	\$97,000	\$100,000	\$118,000	\$124,000	\$72,000	\$72,000	\$49,000	\$70,000	\$50,000	\$76,500	Currently Projected Under(+)/Over (-) Budget	\$19,787

Odor Control (5009) Costs



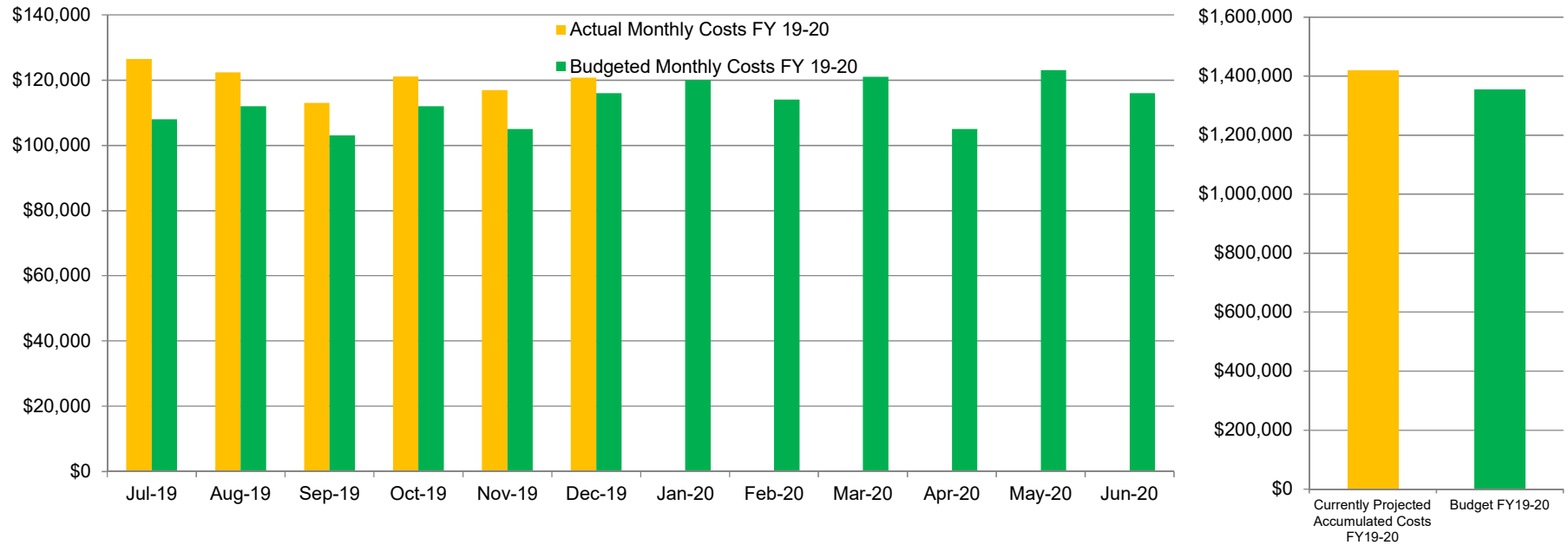
	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Currently Projected Accumulated Costs FY19-20	\$107,016
Actual Monthly Costs FY 19-20	\$6,827	\$5,707	\$13,094	\$11,675	\$9,451	\$6,263							Budget FY19-20	\$130,000
Budgeted Monthly Costs FY 19-20	\$9,000	\$12,000	\$16,000	\$17,000	\$13,000	\$9,000	\$5,000	\$10,000	\$10,000	\$13,000	\$5,000	\$11,000	Currently Projected Under(+)/Over (-) Budget	\$22,984

Polymer (5007) Costs



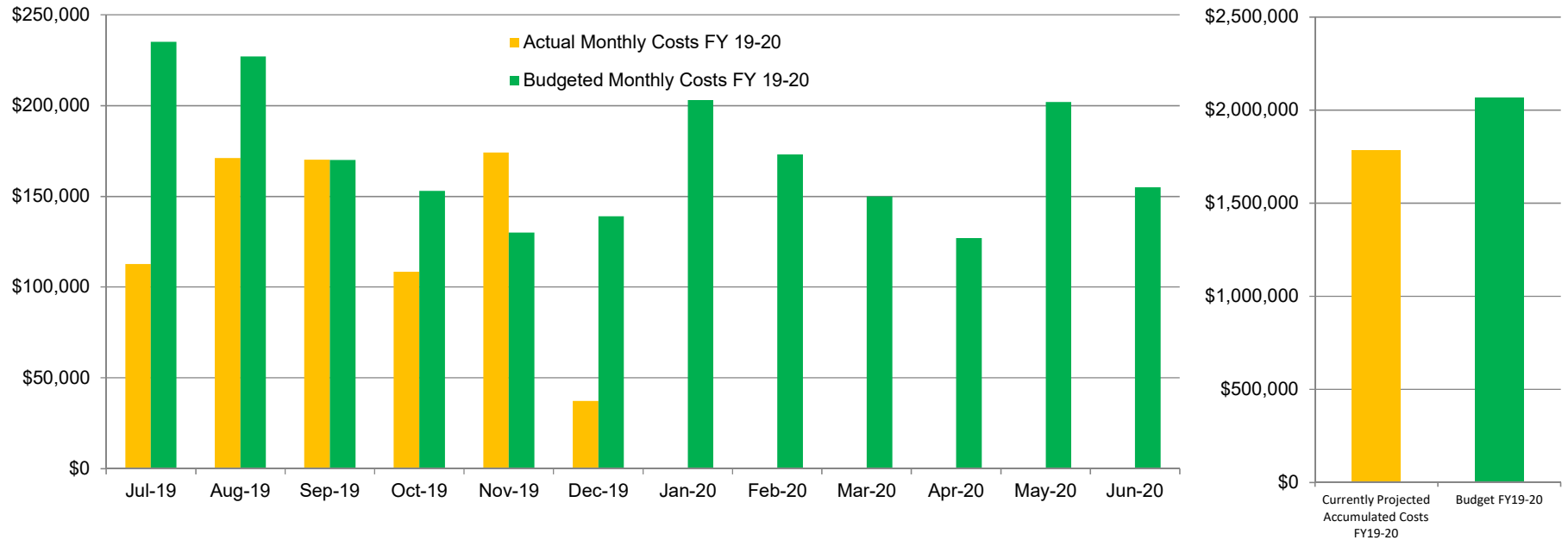
	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Currently Projected Accumulated Costs FY19-20	\$705,495
Actual Monthly Costs FY 19-20	\$41,501	\$56,668	\$65,027	\$62,831	\$70,573	\$5,895							Budget FY19-20	\$805,000
Budgeted Monthly Costs FY 19-20	\$67,000	\$67,000	\$67,000	\$67,000	\$67,000	\$67,000	\$67,000	\$67,000	\$67,000	\$67,000	\$67,000	\$68,000	Currently Projected Under(+)/Over (-) Budget	\$99,505

Biosolids (5049) Costs



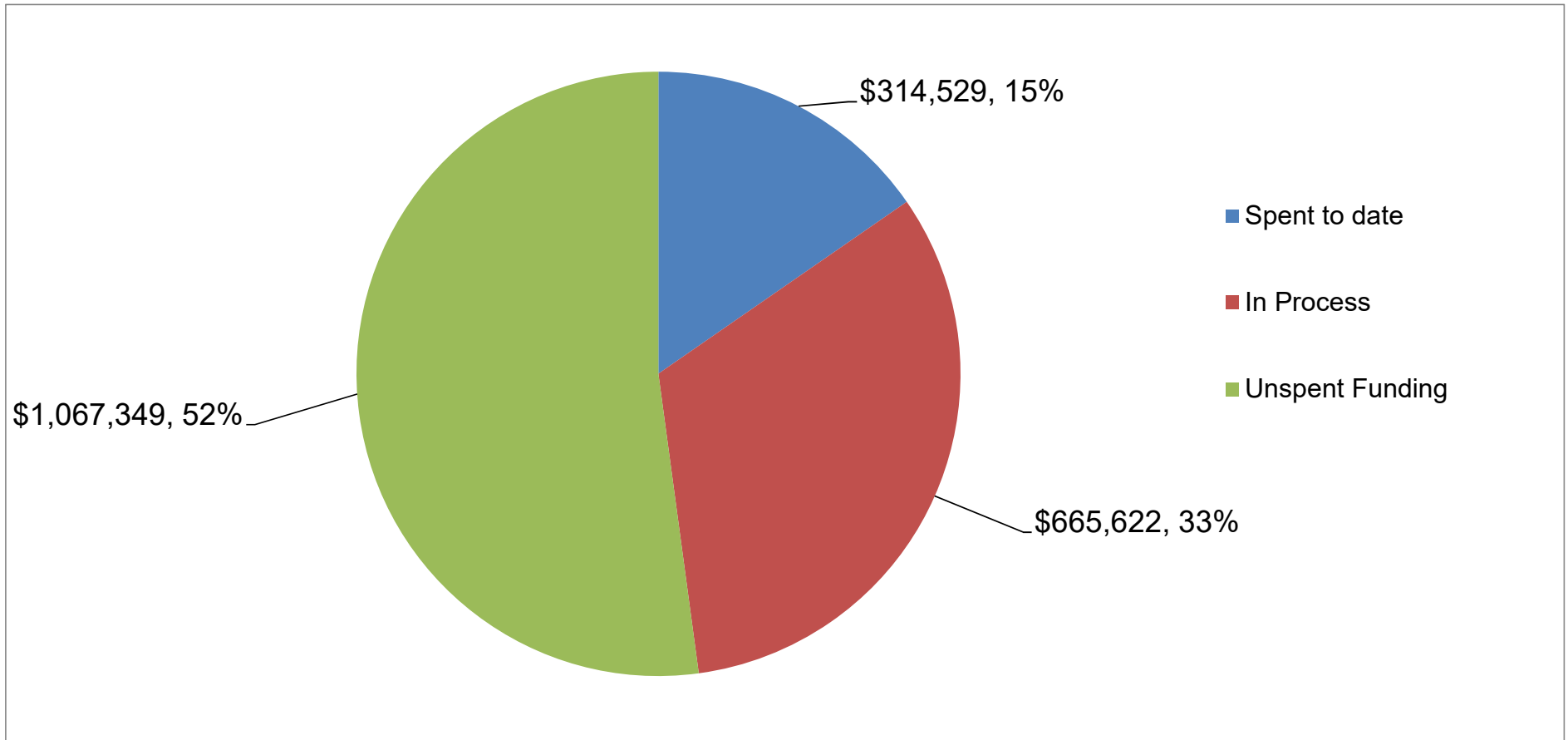
	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Currently Projected Accumulated Costs FY19-20	\$1,419,471
Actual Monthly Costs FY 19-20	\$126,429	\$122,317	\$112,990	\$121,053	\$116,951	\$120,731							Budget FY19-20	\$1,355,000
Budgeted Monthly Costs FY 19-20	\$108,000	\$112,000	\$103,000	\$112,000	\$105,000	\$116,000	\$120,000	\$114,000	\$121,000	\$105,000	\$123,000	\$116,000	Currently Projected Under(+)/Over (-) Budget	-\$64,471

Maintenance Repair (5056 to 5060) Costs



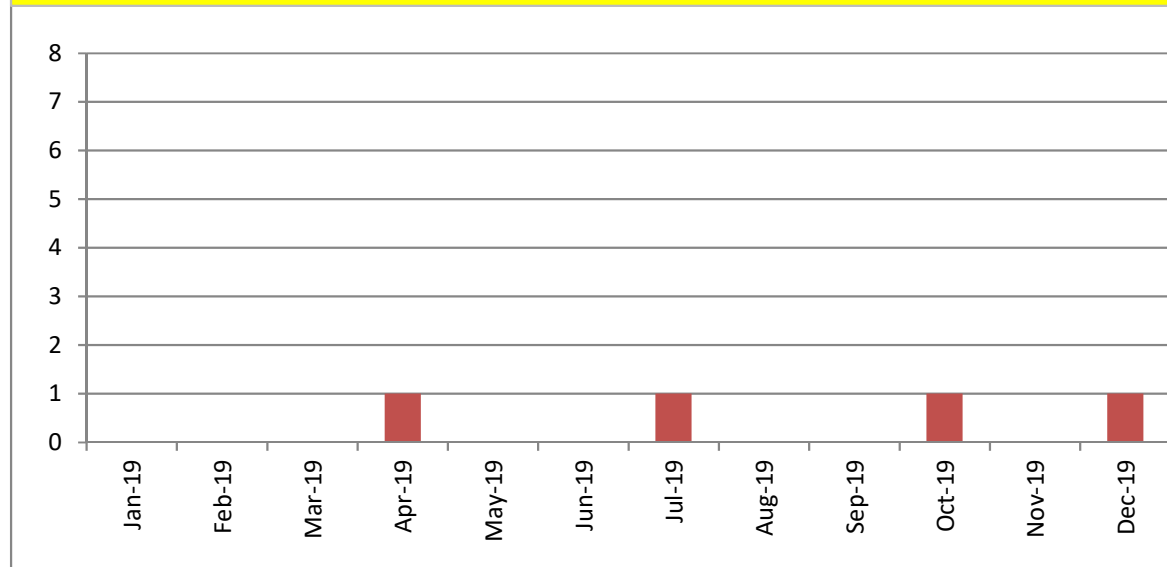
	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Currently Projected Accumulated Costs FY19-20	\$1,783,775
Actual Monthly Costs FY 19-20	\$112,656	\$171,074	\$170,157	\$108,376	\$174,173	\$37,339							Budget FY19-20	\$2,064,000
Budgeted Monthly Costs FY 19-20	\$235,000	\$227,000	\$170,000	\$153,000	\$130,000	\$139,000	\$203,000	\$173,000	\$150,000	\$127,000	\$202,000	\$155,000	Currently Projected Under(+)/Over (-) Budget	\$280,225

FY19-20 Small Internal Capital Costs



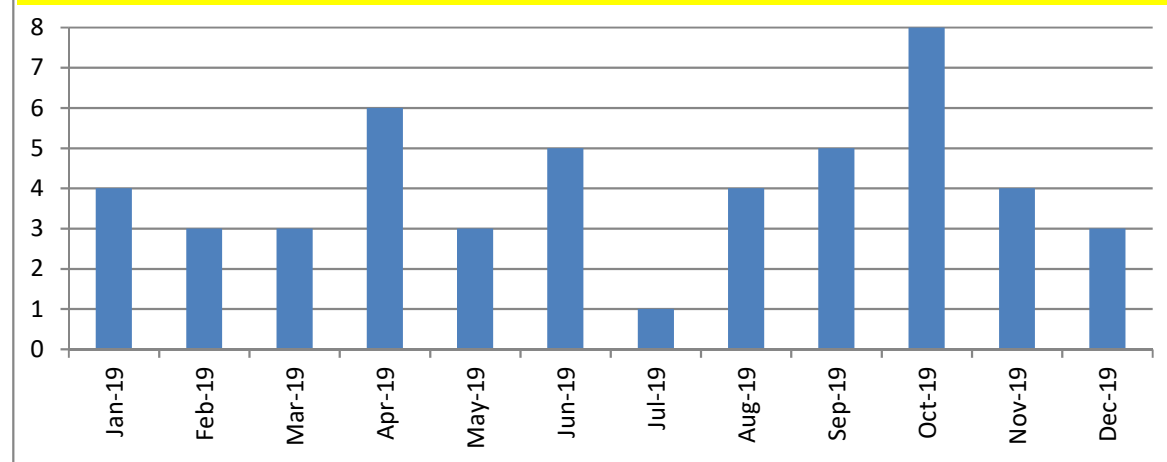
SAFETY UPDATE - JANUARY 2, 2020

OSHA RECORDABLE INJURIES



	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
OSHA RECORDABLE INJURIES	0	0	0	1	0	0	1	0	0	1	0	1

NEAR MISS REPORTS



	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19
NEAR MISS REPORTS	4	3	3	6	3	5	1	4	5	8	4	3

SAFETY TRAINING

TRAINING TOPIC	ATTENDANCE
November '19 - Annual Audiometric Hearing Testing	90%
October '19 - Fall Protection Training and Additional ICS Training	90%
September '19 - Wildland Fire Training and Additional CPR/First Aid/AED Training	90%
August '19 - Confined Space Entry Rescue Training (for recently hired employees)	95%
August '19 - Additional Active Shooter and Workplace Violence Training	95%
July '19 - Annual Fire Extinguisher Training	95%
June '19 - Annual Confined Space Entry Rescue Refresher Training	95%
May '19 - Annual Heat Illness Training	90%
April '19 - Annual HAZWOPER Refresher Training (8-Hour)	95%
March '19 - Annual Respirator Fit Testing and PPE Use Training	90%
Feb '19 - Annual Bloodborne Pathogens Training and Additional Arc Flash Training	90%
December '18 - Annual Defensive Driving/Distracted Driving/DUIs Training (w/ CHP)	100%
November '18 - Annual Audiometric Hearing Testing	100%
October '18 - Crane Safety	100%
September '18 - Silica Safety Training	100%
August '18 - Fire Awareness Safety for Field Personnel	100%
August '18 - Lockout/Tagout Training	100%
March '18 - CPR/First Aid/AED Training	100% (all SOCWA employees)
January '18 - Additional ICS Training	100%
January '18 - Respiratory PPE Training/Fit Testing	90%
October '17 - Forklift Training / Certification	100%
September '17 - Active Shooter and 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	100%
March '17 - CPR, First Aid, and AED Training	100%
January '17 - Lockout/Tagout Training	100%
January '17 - 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 2019

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	FLOW MGD	inches
12/01/19	0.002				2.509	18.0		0.1	5.730	8.6	4.0	0.3	2.859	3.0	6.0		0.763	0.578	0.003	12.444	0.00
12/02/19	0.002	8.5	5.6	<0.3	3.936	17.0	12.6	<0.1	6.11	10.1	5.0	0.2	2.746	9.5	10.0	0.1	0.762	0.574	0.005	14.135	0.00
12/03/19	3.395	9.6	5.1	<0.3	3.684	19.0	11.1	<0.1	5.100	8.1	4.0	0.3	2.627	6.4	8.0	0.1	0.763	0.571	0.002	16.142	0.00
12/04/19	0.909	8.6	5.0	<0.3	3.894	20.5	11.7	<0.1	6.800	6.4	2.0	0.3	2.609	17.2	6.0	<0.1	0.518	0.569	0.004	15.303	0.69
12/05/19	3.925	8.4	6.2	<0.3	4.023	18.0	9.4	<0.1	6.530	7.3	2.0	0.3	2.950	8.2	3.0	0.1	0.614	0.566	0.002	18.610	0.00
12/06/19	3.262	10.0	6.3	<0.3	3.853	19.5	11.3	0.1	6.100	7.5	3.0	0.1	2.753	5.7	5.0	<0.1	0.753	0.564	0.004	17.289	0.13
12/07/19	3.181	9.8		<0.3	3.533	16.7		<0.1	5.920				2.705				0.762	0.579	0.003	16.683	0.15
12/08/19	3.181	8.5	5.8	<0.3	3.678	16.0		<0.1	4.530	10.4	5.0	0.2	2.792	14.4	11.0		0.763	0.582	0.001	15.527	1.13
12/09/19	3.182	11.0	7.3	<0.3	2.356	16.7	11.2	<0.1	5.010	10.8	3.0	0.1	2.730	5.3	4.0	<0.1	0.762	0.566	0.003	14.609	0.00
12/10/19	3.318	10.0	5.4	<0.3	3.536	20.3	12.1	<0.1	4.830	8.6	4.0	0.2	2.725	6.7	7.0	0.1	0.504	0.571	0.006	15.490	0.00
12/11/19	3.301	9.8	5.7	<0.3	3.520	17.8	11.0	0.1	4.480	8.1	4.0	0.2	2.647	7.9	6.0	0.1	0.499	0.572	0.008	15.027	0.00
12/12/19	3.340	10.0	5.4	<0.3	3.522	13.7	8.5	<0.1	5.500	7.1	4.0	0.2	2.564	11.2	8.0	<0.1	0.493	0.571	0.004	15.994	0.00
12/13/19	3.200	12.0	6.5	<0.3	3.636	9.8	7.3	<0.1	5.750	7.7	3.0	0.2	2.341	4.6	3.0	<0.1	0.493	0.570	0.006	15.996	0.00
12/14/19	3.204	12.0		<0.3	3.259	11.3		<0.1	5.640				2.626				0.494	0.569	0.003	15.795	0.00
12/15/19	3.200	13.0	6.2	<0.3	3.737	11.8		<0.1	5.790	7.4	3.0	0.2	2.651	3.6	4.0		0.493	0.568	0.002	16.441	0.00
12/16/19	3.091	11.0	5.5	<0.3	3.768	15.2	8.7	<0.1	6.310	7.7	5.0	0.2	2.666	13.8	14.0	<0.1	0.493	0.566	0.006	16.900	0.00
12/17/19	3.129	19.0	6.3	<0.3	2.481	15.5	8.5	<0.1	5.860	7.5	3.0	<0.1	2.559	8.8	6.0	0.1	0.494	0.566	0.003	15.092	0.00
12/18/19	3.428	19.0	6.9	<0.3	3.959	15.8	8.5	0.1	5.820	11.2	6.0	0.1	2.563	8.4	6.0	<0.1	0.493	0.579	0.002	16.844	0.00
12/19/19	4.105	19.0	7.4	<0.3	4.028	18.0	10.2	0.1	5.690	7.4	3.0	0.3	2.546	2.7	2.0	<0.1	0.481	0.582	0.006	17.438	0.00
12/20/19	3.177	18.0	7.0	<0.3	3.527	16.4	9.9	<0.1	6.680	5.5	4.0	0.1	2.640	5.2	5.0	<0.1	0.328	0.578	0.031	16.961	0.00
12/21/19	2.969	16.0		<0.3	3.284	16.3		<0.1	4.910				2.591				0.545	0.571	0.003	14.873	0.00
12/22/19	4.327	16.0	5.2	<0.3	3.468	10.0		<0.1	5.620	9.4	4.0	0.3	2.639	33.0	17.0		0.245	0.565	0.005	16.869	0.00
12/23/19	3.475	16.0	6.3	<0.3	4.573	16.3	11.4	<0.1	6.650	11.8	6.0	0.1	2.667	6.6	6.0	0.1	0.290	0.563	0.005	18.223	2.34
12/24/19	3.754	14.0	7.0	<0.3	2.747	15.5	9.4	<0.1	7.570	13.0	5.0	0.3	3.590	7.8	6.0	<0.1	0.550	0.563	0.002	18.776	0.00
12/25/19	4.753	15.0	8.8	<0.3	3.926	17.0	10.8	<0.1	7.790	17.8	8.0	0.2	2.846	8.0	8.0	<0.1	0.548	0.561	0.005	20.429	0.75
12/26/19	4.006	18.0	7.9	<0.3	4.764	16.0	9.8	<0.1	9.150	41.6	13.0	2.4	2.804	23.0	15.0	<0.1	0.549	0.493	0.003	21.769	1.43
12/27/19	3.824	12.0	8.4	<0.3	4.905	18.5	12.7	<0.1	11.100	49.0	17.0	5.7	4.349	16.7	8.0	0.1	0.547	0.107	0.004	24.836	0.00
12/28/19	4.776	15.0		<0.3	4.136	14.0		<0.1	8.270				2.969				0.548	0.106	0.002	20.807	0.00
12/29/19	3.121	17.0	7.7	<0.3	3.937	10.6		<0.1	8.070	31.0	13.0	1.5	2.922	4.4	6.0		0.548	0.106	0.003	18.707	0.00
12/30/19	3.762	9.0	6.8	<0.3	3.460	10.0	6.4	<0.1	8.240	23.6	11.0	0.2	2.867	13.9	12.0	<0.1	0.547	0.107	0.003	18.986	0.00
12/31/19	3.198	15.0	8.1	<0.3	3.618	7.8	6.2	<0.1	7.950	24.1	10.0	0.2	2.838	13.7	11.0	0.2	0.547	0.110	0.004	18.265	0.00
AVG	3.210	13.0	6.5	<0.3	3.653	15.5	9.9	<0.1	6.435	13.7	5.7	<0.5	2.786	10.0	7.5	<0.1	0.554	0.493	0.005	17.137	
TOTAL	99.50				113.26				199.50				86.38				17.19	15.29	0.143	531.26	6.62

Unified Beach Monitoring

#1

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: December 2019
 REPORT DUE: February 1 2020
 SAMPLE SOURCE: Surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: Low Tide 1008

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							
S3	12/03/19	1010	10	10	4	None	None	None	None	Green	62	Slightly Turbid	Flowing	
S4	12/03/19	0940	<10	<10	2	None	None	None	None	Green		Slightly Turbid		
S5	12/03/19	0925	<10	<10	2	None	None	None	None	Green		Slightly Turbid		
S6	12/03/19	0910	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
WEST	12/03/19	0905	<10	<10	6	None	None	None	None	Green		Slightly Turbid		
S7	12/03/19	0900	<10	<10	6	None	None	None	None	Green		Slightly Turbid		
S8	12/03/19	0855	<10	<10	10	None	None	None	None	Green		Slightly Turbid		
S9	12/03/19	0828	30	140	48	None	None	None	None	Green		Turbid		
ACM1	12/03/19	0829	100	120	110	None	None	None	None	Green		Turbid		
S10	12/03/19	0820	10	10	10	None	None	None	None	Green		Turbid		
S11	12/03/19	0815	<10	<10	10	None	None	None	None	Green		Slightly Turbid		
S12	12/03/19	0810	<10	<10	<2	None	None	None	None	Green		Slightly 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.

Unified Beach Monitoring

#2

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: December 2019
 REPORT DUE: February 1, 2020
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: High Tide 0706

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	12/10/19	1025	<10	<10	2	None	None	None	None	Green		Clear		
S4	12/10/19	0940	40	30	10	None	None	None	None	Green	61	Slightly Turbid		
S5	12/10/19	0920	<10	<10	4	None	None	None	None	Green		Slightly Turbid		
S6	12/10/19	0900	<10	<10	<2	None	None	None	None	Green		Slightly Turbid		
WEST	12/10/19	0855	<10	<10	10	None	None	None	None	Green		Slightly Turbid		
S7	12/10/19	0850	10	<10	<2	None	None	None	None	Green		Slightly Turbid		
S8	12/10/19	0845	<10	<10	2	None	None	None	None	Green		Slightly Turbid		
S9	12/10/19	0830	40	10	10	None	None	None	None	Green		Turbid		
ACM1	12/10/19	0825	30	<10	4	None	None	None	None	Green		Turbid		
S10	12/10/19	0815	10	10	2	None	None	None	None	Green	62	Slightly Turbid		
S11	12/10/19	0810	30	10	10	None	None	None	None	Green		Slightly Turbid		
S12	12/10/19	0805	10	10	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 2019
 REPORT DUE: February 1, 2020
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: Low Tide 620

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	12/17/19	755	<10	<10	<2	None	None	None	None	Green	63	Clear		
S4	12/17/19	1045	20	<10	<2	None	None	None	None	Green		Clear		
S5	12/17/19	1030	10	<10	8	None	None	None	None	Green		Clear		
S6	12/17/19	1010	<10	<10	<2	None	None	None	None	Green		Clear		
WEST	12/17/19	1005	<10	<10	<2	None	None	None	None	Green		Clear		
S7	12/17/19	1000	<10	<10	<2	None	None	None	None	Green		Clear		
S8	12/17/19	955	<10	<10	<2	None	None	None	None	Blue		Clear		
S9	12/17/19	935	<10	10	<2	None	None	None	None	Green		Clear		
ACM1	12/17/19	925	70	10	2	None	None	None	None	Green		Slightly Turbid	Flowing	
S10	12/17/19	850	<10	<10	2	None	None	None	None	Green		Clear		
S11	12/17/19	840	<10	<10	<2	None	None	None	None	Green		Clear		
S12	12/17/19	830	<10	<10	<2	None	None	None	None	Green		Clear		

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

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: December 2019
 REPORT DUE: February 1, 2020
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: High Tide 703

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	12/24/19	740	20	40	200	None	None	None	None	Green	60	Clear		
S4	12/24/19	1030	20	20	30	None	None	None	None	Green		Clear		
S5	12/24/19	1015	40	40	40	None	None	None	None	Green		Clear		
S6	12/24/19	1000	60	20	60	None	None	None	None	Green		Clear		
WEST	12/24/19	955	80	40	80	None	None	None	None	Green		Clear		
S7	12/24/19	945	160	100	80	None	None	None	None	Green		Clear		
S8	12/24/19	935	120	60	50	None	None	None	None	Blue		Clear		
S9	12/24/19	920	260	200	210	None	None	None	None	Green		Slightly Turbid		
ACM1	12/24/19	910	>=4,800	800	4,800	None	None	None	None	Brown		Slightly Turbid	Flowing	
S10	12/24/19	835	160	80	90	None	None	None	None	Green		Clear		
S11	12/24/19	825	60	20	50	None	None	None	None	Green		Clear		
S12	12/24/19	815	80	20	60	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: December 2019
 REPORT DUE: February 1, 2020
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: Low Tide 0550

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	12/31/19	1036	10	<10	<2	None	None	None	None	Blue	54	Clear		
S4	12/31/19	1025	<10	<10	<2	None	None	None	None	Blue		Clear		
S5	12/31/19	1020	<10	<10	<2	None	None	None	None	Blue		Clear		
S6	12/31/19	1008	<10	<10	<2	None	None	None	None	Blue		Clear		
WEST	12/31/19	1200	10	<10	<2	None	None	None	None	Blue		Clear		
S7	12/31/19	1005	<10	<10	<2	None	None	None	None	Blue		Clear		
S8	12/31/19	0946	10	40	<2	None	None	None	None	Blue		Clear		
S9	12/31/19	0940	50	<10	30	None	None	None	None	Blue		Clear		
ACM1	12/31/19	0932	1,000	240	250	None	None	None	None	Blue		Clear	Flowing	
S10	12/31/19	0915	20	<10	<2	None	None	None	None	Green		Clear		
S11	12/31/19	0906	40	<10	<2	None	None	None	None	Green		Clear		
S12	12/31/19	0907	10	10	2	None	None	None	None	Green	50	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.

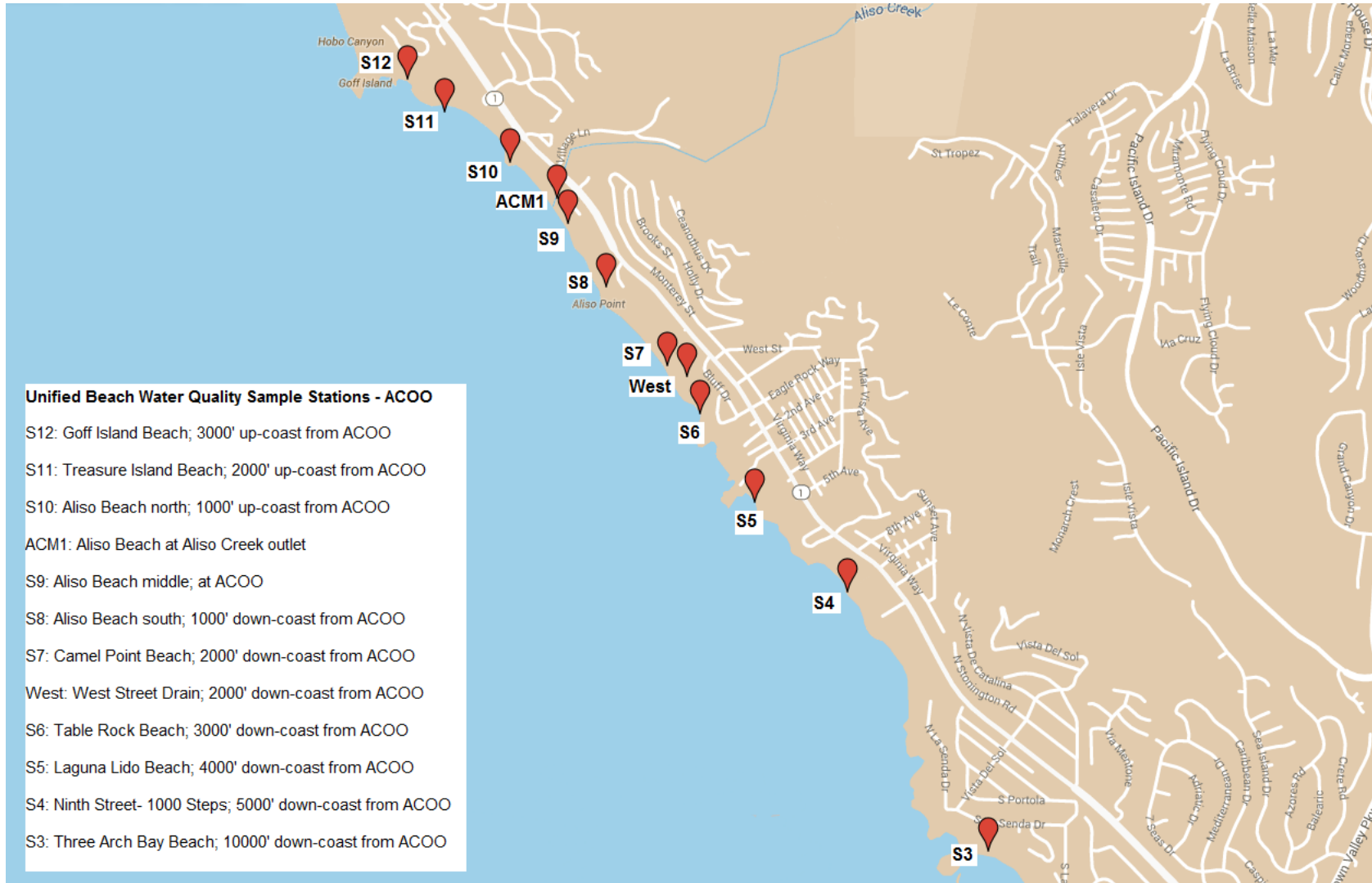
Aliso Creek Ocean Outfall

Unified Beach Water Quality Monitoring Stations

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

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

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



MONITORING REPORT

Off Shore Stations

South Orange County Wastewater Authority

DISCHARGE: Aliso Creek Ocean Outfall

REPORT FOR: December 2019

REPORT DUE: February 1, 2020

SAMPLE SOURCE: Receiving water, nearshore and offshore

EXACT SAMPLE POINTS: As specified in permit

SAMPLES COLLECTED BY: Seaventures/SOCWA staff

SAMPLES ANALYZED BY: SOCWA Lab

REPORT FREQUENCY: Monthly

SAMPLING FREQUENCY: Monthly

TYPE OF SAMPLE: Grab

Comments: High Tide 706

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	12/10/19	<2	<2	<2	800	0	0	
A-1	Mid depth	12/10/19	<10	<10	<10				
A-2	Surface	12/10/19	<2	<2	<2	748	0	0	
A-2	Mid depth	12/10/19	<10	<10	<10				
A-3	Surface	12/10/19	<2	<2	<2	752	0	0	
A-3	Mid depth	12/10/19	<10	<10	<10				
A-4	Surface	12/10/19	<2	<2	<2	804	0	0	
A-4	Mid depth	12/10/19	<10	<10	<10				
A-5	Surface	12/10/19	<2	<2	<2	756	0	0	
A-5	Mid depth	12/10/19	<10	<10	<10				
B-1	Surface	12/10/19	<2	<2	<2	740	0	0	
B-1	Mid depth	12/10/19	<10	<10	<10				
B-2	Surface	12/10/19	<2	<2	<2	811	0	0	
B-2	Mid depth	12/10/19	<10	<10	<10				
N1	Surface	12/10/19	2	<2	2	826	0	0	
N2	Surface	12/10/19	<2	<2	<2	825	0	0	
N3	Surface	12/10/19	2	<2	<2	824	0	0	
N4	Surface	12/10/19	<2	2	<2	823	0	0	
N5	Surface	12/10/19	2	<2	2	822	0	0	
N6	Surface	12/10/19	<2	2	<2	820	0	0	
N7	Surface	12/10/19	4	2	2	818	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
Aliso Creek Ocean Outfall 2019**

ACOO Permit Order No. R9-2012-0013							
Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
ACOO - SOCWA Outfall	5/14/2019	Chronic Toxicity	Monthly	Tuc	238	500	\$3000
South Coast Water District - CTP	5/1/2019	Dissolved Oxygen	Weekly	mg/L	Weekly	Not Reported	\$3000
South Coast Water District - CTP	5/1/2019	Temperature	Weekly	C	Weekly	Not Reported	\$3000
IRWD	10/7/2019	Biochemical Oxygen Demand Removal	Weekly	%	Weekly	Not Reported	\$3000
IRWD	10/7/2019	Carbonaceous Biochemical Oxygen Demand Removal	Weekly	%	Weekly	Not Reported	\$3000
SOCWA - Regional Treatment Plant	12/27/2019	Settleable Solids	Instaneous Exceedance	mg/L	3.00	5.7 mL/L	\$3,000

SOCWA and MEMBER AGENCY FACILITIES ACOO Spill / Overflow Report Log - 2019 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	SOCWA - Coastal Treatment Plant	10,800	Raw Sewage	The spill was completely recovered recirculated back into the treatment plant. There was no raw sewage that left the facility.	None	02-09-19	02-09-19
SOCWA	SOCWA - Coastal Treatment Plant	500	Secondary Effluent - did not leave the site	The AWT was backwashing more then usual due to treatment issues. The sequencing of the backwashes is very precise and completed automatically through a sequential process via the AWT controls. During a backwash cycle, the influent valve is shut along with the filtrate valve. The spent backwash water exits the cell through the trough valve and gravity flows to the mudwell holding tank and then makes its way to the plant drainage pump station. Sunday 9-29-2019, the trough valve failed on cells 1 and 7 causing the cells to overflow into the adjacent concrete pad and planter. The backwash flow from cell 7 made its way to the storm water sump pump where it was captured and returned to the mudwell. The overflow from cell 1 was contained to the planter and was not captured however, did not leave the plant site.	None	09-29-19	09-29-19

SAN JUAN CREEK OCEAN OUTFALL MONITORING REPORT

December 2019

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
12/01/19	8.190	4.3	5.5		4.076				3.470				1.678	15.0	12.2	0.1	0.000	0.203	16.120	0.00
12/02/19	8.620	17.5		0.1	3.419	6.6	7.0	<0.1	0.960	6.5	6.6	0.1	1.639	13.8	11.5	<0.1	0.155	0.205	16.920	0.00
12/03/19	4.840	9.2	8.3	0.1	3.729	3.7	8.0	<0.1	2.460	5.5	6.8	0.3	1.570	12.0	10.8	0.1	0.157	0.202	13.570	0.00
12/04/19	6.550	7.3	3.4	<0.1	3.586	4.0	6.0	<0.1	2.580	8.7	9.0	0.1	1.798	13.4	12.2	<0.1	0.000	0.165	15.120	0.69
12/05/19	7.710	13.4	6.2	<0.1	3.267	2.8	5.0	<0.1	2.370	5.7	3.4	<0.1	1.627	17.6	13.5	ND	0.000	0.201	16.400	0.00
12/06/19	7.360	14.0	9.3	0.1	3.560	2.5	4.0	<0.1	2.800	4.4	3.3	0.1	1.557				0.231	0.202	15.030	0.13
12/07/19	7.530				3.666				3.870				1.565				0.353	0.202	16.200	0.15
12/08/19	7.500	7.2	8.3		2.943				4.040				1.662	9.6	8.6	<0.1	0.352	0.202	17.010	1.13
12/09/19	7.750	7.6	4.6	<0.1	3.559	3.2	6.0	<0.1	3.380	6.4	7.0	0.1	1.678	8.2	7.8	ND	0.345	0.202	17.760	0.00
12/10/19	8.810	12.8	9.2	0.1	3.577	3.0	7.0	<0.1	2.840	5.7	7.2	0.2	1.655	10.0	8.5	ND	0.350	0.203	16.830	0.00
12/11/19	7.340	9.4	8.0	0.1	3.458	3.6	3.0	<0.1	2.840	5.5	2.9	0.1	1.585	13.2	11.8	ND	0.421	0.202	16.410	0.00
12/12/19	8.750	10.3	6.6	0.1	3.430	2.5	2.0	<0.1	1.920	5.9	3.4	0.5	1.596	13.2	10.8	ND	0.317	0.202	15.960	0.00
12/13/19	8.590	8.5	4.0	0.1	3.381	4.0	4.0	<0.1	2.420	5.5	3.6	<0.1	1.667				0.000	0.203	14.370	0.00
12/14/19	8.600				3.118				3.310				1.596				0.000	0.203	14.950	0.00
12/15/19	8.550	11.8	8.7		3.508				2.600				1.667	6.0	6.7	ND	0.000	0.202	15.660	0.00
12/16/19	8.850	11.1	9.9	0.1	3.530	4.4	7.0	<0.1	2.990	7.6	7.4	0.1	1.667	6.6	6.4	<0.1	0.000	0.202	0.530	0.00
12/17/19	8.460	7.3	5.0	<0.1	3.663	4.2	8.0	<0.1	2.700	6.0	7.3	<0.1	1.613	6.6	6.4	<0.1	0.284	0.202	15.930	0.00
12/18/19	8.500	3.9	3.5	<0.1	2.985	3.1	2.0	<0.1	1.560	4.8	4.8	0.3	1.583	12.0	10.8	ND	0.436	0.204	15.050	0.00
12/19/19	8.290	11.1	7.3	0.1	3.006	3.2	3.0	<0.1	2.530	5.4	3.3	0.1	0.107	4.2	6.2	ND	0.434	0.200	13.530	0.00
12/20/19	7.300	8.3	6.5	0.1	3.205	2.6	2.0	<0.1	2.680	5.0	3.0	0.3	0.849				0.434	0.201	14.140	0.00
12/21/19	7.620				3.126				2.970				1.701				0.434	0.201	15.310	0.00
12/22/19	7.250	10.8	6.7		3.247				3.000				1.774	11.2	10.2	<0.1	0.432	0.201	16.120	0.00
12/23/19	7.900	7.5	6.0	<0.1	3.829	7.2	8.0	<0.1	3.970	6.9	7.1	0.2	2.009	8.6	7.5	<0.1	0.430	0.205	17.010	2.34
12/24/19	9.010	9.0	6.0	0.1	3.999	4.2	6.0	<0.1	3.370	4.8	7.6	0.2	1.816	8.4	7.4	<0.1	0.433	0.201	20.470	0.00
12/25/19	7.970	7.8	6.8	<0.1	4.007	5.2	7.0	<0.1	2.930	4.6	2.8	0.3	2.066	12.4	11.2	ND	0.433	0.205	18.370	0.75
12/26/19	9.220	8.4	4.7	0.1	4.394	4.2	5.0	<0.1	4.820	5.0	3.0	0.3	2.054	8.6	7.8	<0.1	0.432	0.200	20.370	1.43
12/27/19	9.210	13.1	6.0	<0.1	4.467	8.7	6.0	<0.1	4.270	4.6	3.0	0.1	1.778				0.210	0.201	21.360	0.00
12/28/19	7.450				3.747				4.610				0.935				0.000	0.204	18.880	0.00
12/29/19	7.420	11.3	7.6		4.027				4.580				0.753	13.2	11.2	<0.1	0.000	0.201	17.600	0.00
12/30/19	6.770	10.1	8.1	<0.1	3.562	4.5	7.0	<0.1	3.060	6.0	6.9	0.2	1.128	6.8	6.5	<0.1	0.217	0.196	16.560	0.00
12/31/19	6.960	9.4	7.4	<0.1	4.046	3.9	4.0	<0.1	4.900	5.7	7.0	<0.1	0.594	15.0	12.4	<0.1	0.297	0.205	16.020	0.00
AVG	7.899	9.7	6.7	<0.1	3.584	4.2	5.3	<0.1	3.123	5.7	5.3	<0.2	1.515	10.7	9.5	<0.1	0.245	0.201	15.986	
TOTAL	244.870				111.117				96.800				46.967				7.587	6.228	495.560	6.62

REPORT FOR: December 2019
 REPORT DUE: February 1, 2020
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: Low Tide 1107
 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							
S0	12/05/19	8:53	1,200	840	1,200	None	None	None	None	Brown	60	Turbid		100
S1	12/05/19	9:01	600	420	440	None	None	None	None	Brown		Turbid		
S2	12/05/19	8:21	1,200	920	650	None	None	None	None	Brown		Turbid		
DSB5	12/05/19	8:03	160	140	100	None	None	None	None	Brown	60	Turbid	Flowing	
S3	12/05/19	9:10	1,000	700	400	None	None	None	None	Brown		Turbid		
DSB4	12/05/19	9:12	1,200	540	600	None	None	None	None	Brown		Turbid		
S5	12/05/19	9:18	3,400	4,200	3,600	None	None	None	None	Brown		Turbid		
DSB1	12/05/19	9:28	>=4,400	3,600	3,500	None	None	None	None	Brown		Turbid		
SJC1	12/05/19	8:50	100	100	1,200	None	None	None	None	Brown	60	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: December 2019
 REPORT DUE: February 1, 2020
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: High Tide 821

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							
S0	12/12/19	930	100	200	110	None	None	None	None	Green	62	Turbid		
S1	12/12/19	910	<20	40	10	None	None	None	None	Green		Turbid		
S2	12/12/19	840	420	280	360	None	None	None	None	Green		Slightly Turbid		500
DSB5	12/12/19	830	>=7,200	4,800	2,100	None	None	None	None	Green		Turbid		
S3	12/12/19	915	40	40	10	None	None	None	None	Green	62	Turbid		
DSB4	12/12/19	916	20	<20	20	None	None	None	None	Green		Turbid		
S5	12/12/19	905	20	<20	26	None	None	None	None	Green		Turbid		
DSB1	12/12/19	900	40	<20	10	None	None	None	None	Green		Turbid		
C1	12/12/19	940	3,000	1,500	1,400	None	None	None	None	Green		Turbid		

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

REPORT FOR: December 2019
 REPORT DUE: February 1, 2020
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: Low Tide 0758

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							
S0	12/18/19	8:41	40	20	12	None	None	None	None	Brown	50	Slightly Turbid		
S1	12/18/19	8:48	40	20	4	None	None	None	None	Brown		Slightly Turbid		
S2	12/18/19	8:04	100	100	38	None	None	None	None	Brown		Slightly Turbid		
DSB5	12/18/19	7:57	280	40	120	None	None	None	None	Brown	50	Slightly Turbid		2
S3	12/18/19	8:58	60	40	32	None	None	None	None	Green		Slightly Turbid		
DSB4	12/18/19	9:01	60	20	24	None	None	None	None	Green	50	Slightly Turbid		
S5	12/18/19	9:08	<20	20	28	None	None	None	None	Green		Slightly Turbid		
DSB1	12/18/19	9:14	20	20	6	None	None	None	None	Green	50	Slightly Turbid		
C1	12/18/19	8:36	>20000	18000	4000	None	None	None	None	Brown		Slightly Turbid	Flowing	50

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 2019
 REPORT DUE: February 1, 2020
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: High Tide 0730

Weather: Rain

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	12/23/19	0930	40	20	230	None	None	None	None	Green		Turbid		
S1	12/23/19	0945	60	80	130	None	None	None	None	Green		Turbid		
S2	12/23/19	015	1,600	200	>=2,000	None	None	None	None	Green		Turbid		
DSB5	12/23/19	0857	4,200	2,200	8,450	None	None	None	None	Brown	57	Turbid		
S3	12/23/19	0935	120	20	280	None	None	None	None	Green		Turbid		
DSB4	12/23/19	0945	100	80	140	None	None	None	None	Brown		Turbid		
S5	12/23/19	0955	80	20	260	None	None	None	None	Brown		Turbid		
DSB1	12/23/19	1020	220	20	270	None	None	None	None	Brown		Turbid		
C1	12/23/19	0920	8,000	2,000	5,000	None	None	None	None	Brown		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 2019
 REPORT DUE: February 1, 2020
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: Low Tide 0550

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	12/31/19	0840	40	40	18	None	None	None	None	Green		Turbid		
S1	12/31/19	0850	60	<20	16	None	None	None	None	Green		Turbid		
S2	12/31/19	0830	240	140	140	None	None	None	None	Green		Turbid		
DSB5	12/31/19	0810	1,200	240	680	None	None	None	None	Green		Turbid		
S3	12/31/19	0855	<20	<20	<2	None	None	None	None	Green		Turbid		
DSB4	12/31/19	0855	20	<20	14	None	None	None	None	Green		Turbid		
S5	12/31/19	0905	20	<20	26	None	None	None	None	Green		Turbid		
DSB1	12/31/19	0910	20	20	22	None	None	None	None	Green	56	Turbid		
C1	12/31/19	0840	<100	<100	70	None	None	None	None	Blue		Turbid		

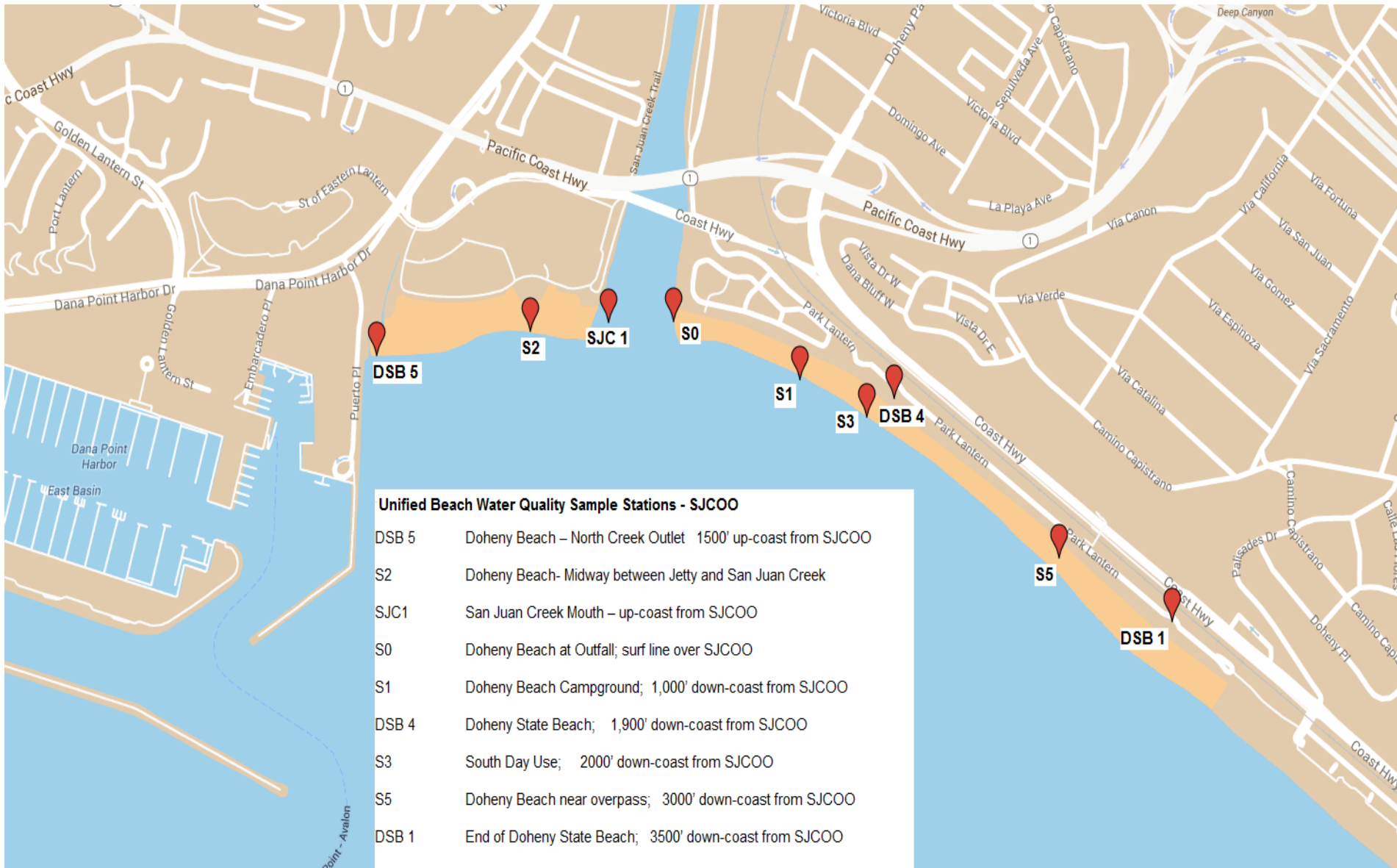
RECEIVING WATER LIMITATIONS: Single Sample Maximum - Total coliform density shall not exceed 10,000 per 100ml; Fecal coliform density shall not exceed 400 per 100ml; Enterococcus density shall not exceed 104 per 100ml.

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: December 2019

REPORT FREQUENCY: Monthly

REPORT DUE: February 1, 2020

SAMPLE SOURCE: Receiving water, nearshore and offshore

SAMPLING FREQUENCY: Monthly

EXACT SAMPLE POINTS: As specified in permit

TYPE OF SAMPLE: Grab

SAMPLES COLLECTED BY: Seaventures/SOCWA staff

SAMPLES ANALYZED BY: SOCWA Lab

Comments: High Tide 740

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	12/10/19	<2	<2	<2	923	0	0	0 - None
A-1	Mid depth	12/10/19	<10	<10	<10				1 - Mild
A-2	Surface	12/10/19	<2	<2	<2	926	0	0	2 - Moderate
A-2	Mid depth	12/10/19	<10	<10	<10				3 - Severe
A-3	Surface	12/10/19	<2	<2	<2	929	0	0	
A-3	Mid depth	12/10/19	<10	<10	<10				
A-4	Surface	12/10/19	<2	<2	<2	936	0	0	
A-4	Mid depth	12/10/19	10	<10	<10				
A-5	Surface	12/10/19	72	44	14	933	0	0	
A-5	Mid depth	12/10/19	130	90	40				
B-1	Surface	12/10/19	26	10	4	916	0	0	
B-1	Mid depth	12/10/19	40	10	<10				
B-2	Surface	12/10/19	<2	<2	<2	945	0	0	
B-2	Mid depth	12/10/19	<10	<10	<10				
N1	Surface	12/10/19	12	14	4	909	0	0	
N2	Surface	12/10/19	2	<2	<2	907	0	0	
N3	Surface	12/10/19	2	<2	<2	905	0	0	
N4	Surface	12/10/19	<2	4	2	900	0	0	
N5	Surface	12/10/19	4	<2	2	855	0	0	
N6	Surface	12/10/19	4	2	<2	851	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 2019**

SJCOO Permit Order No. R9-2012-0012							
Agency	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
City of San Clemente	6/26/2019	cBOD	Monitoring Failure	mg/L	Daily	Not Reported	\$3,000
Moulton Niguel Water District - 3A	6/18/2019	cBOD	Monitoring Failure	mg/L	Daily	Not Reported	\$3,000
Moulton Niguel Water District - 3A	6/18/2019	Total Suspended Solids	Monitoring Failure	mg/L	Daily	Not Reported	\$3,000
Moulton Niguel Water District - 3A	06/21/2019	cBOD	Monitoring Failure	mg/L	Daily	Not Reported	\$3,000
Moulton Niguel Water District - 3A	06/21/2019	Total Suspended Solids	Monitoring Failure	mg/L	Daily	Not Reported	\$3,000
Moulton Niguel Water District - 3A	06/21/2019	Settleable Solids	Monitoring Failure	mg/L	Daily	Not Reported	\$3,000
SOCWA - J.B. Latham Facility	11/21/2019	Settleable Solids	Instaneous Exceedance	mL/L	Daily	5.1 mL/L	\$3,000
City of San Juan Capistrano	11/26/2019	Oil and Grease	Monitoring Failure	mg/L	Daily	Not Reported	\$3,000
City of San Juan Capistrano	11/26/2019	Total Suspended Solids	Monitoring Failure	mg/L	Daily	Not Reported	\$3,000
City of San Juan Capistrano	11/26/2019	Turbidity	Monitoring Failure	mg/L	Daily	Not Reported	\$3,000
City of San Juan Capistrano	11/26/2019	pH	Monitoring Failure	mg/L	Daily	Not Reported	\$3,000
City of San Juan Capistrano	11/26/2019	Settleable Solids	Monitoring Failure	mg/L	Daily	Not Reported	\$3,000
City of San Juan Capistrano	11/26/2019	Conductivity	Monitoring Failure	mg/L	Daily	Not Reported	\$3,000

SOCWA and MEMBER AGENCY FACILITIES SJCOO Spill / Overflow Report Log - 2019 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
SOCWA	SMWD	5,000	Recycled Water	Transferring sludge from digester 5 to sludge holding tank through common transfer line connected to digester 1 which is offline and being cleaned caused flow through open flush valve at digester 1. Operator stopped flow through valve after about 10 minutes of transfer but cleanup required use of around 5000 gallons of plant wash water. Everything is contained in the plant.	None	Yes	05-26-19
SOCWA	SMWD & SCWD	500	Secondary Effluent	The Chiquita Water Reclamation Plant has a weekly procedure to drain the flow equalization tank. The drain was opened during the weekly maintenance activity which resulted in a surge in the effluent transmission line and a spill at the South Coast Water District's Groundwater Reclamation Facility due to a manhole cover not bolted down. Approximately 200 gallons of secondary effluent was contained on site with approximately 300 gallons entering the storm drain at the SCWD's facility which is adjacent to the San Juan Creek. Investigation found additional wet spots on multiple air relief valves on the effluent transmission main.	San Juan Creek	Yes	10-31-19

**Compliance Summary Report
Recycled Water Permit
2019**

Waste Discharge Requirement Order 97 - 52

Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
TCWD - RRWRP	10/19/2018	Nitrate as NO3	Annual	mg/L	45	68	Results reported in January. Agency to begin quarterly accelerated monitoring.
SOCWA - RTP	1/16/2019-1/22/2019	Coliform	30-day Max	cfu/100mL	23	37-548	There were six instances of exceedances of MPN greater than 23 cfu/100mL. Permit limits no more than one sample in excess of 23 in 30 day period. Chlorine contact basin past scheduled annual maintenance due to storm as key contributor to exceedances. Chlorine contact basin cleaned early February.
SOCWA - RTP	1/16/2019	Coliform	Instantons	cfu/100mL	240	548	Chlorine contact basin past scheduled annual maintenance due to storm as key contributor to exceedances. Chlorine contact basin cleaned early February.
SOCWA - RTP	1/22/2019-1/30/2019	Coliform	7 Day Median	cfu/100mL	2.2	3-37	There were nine exceedances of the 7 day median. Chlorine contact basin past scheduled annual maintenance due to storm as key contributor to exceedances. Chlorine contact basin cleaned early February.
SOCWA - RTP	1/3/2019	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	1/3/2019	TDS	12-Month	mg/L	1000	1024	SOCWA began accelerated monitoring.
MNWD - 3A	1/1/2019	Manganese	12-Month	mg/L	0.05	0.06	Plant offline but running annual average continues to be above the permit limit.
SOCWA - RTP	2/5/2019	Manganese	12-Month	mg/L	0.05	0.08	
SOCWA - RTP	2/5/2019	TDS	12-Month	mg/L	1000	1072	
SOCWA - CTP	2/28/2019	Manganese	12-Month	mg/L	0.05	0.06	Plant offline but running annual average continues to be above the permit limit.
MNWD - 3A	2/7/2019	Manganese	12-Month	mg/L	0.05	0.06	
MNWD - 3A	2/9/2019	Coliform	Instantons	cfu/100mL	<2	2419	Suspected sample contamination.
SOCWA - RTP	3/5/2019	Manganese	12-Month	mg/L	0.05	0.07	
MNWD - 3A	3/20/2019	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	4/16/2019	Manganese	12-Month	mg/L	0.05	0.07	
MNWD - 3A	4/30/2019	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	5/16/2019	Manganese	12-Month	mg/L	0.05	0.09	
SOCWA - RTP	5/16/2019	TDS	12-Month	mg/L	1000	1123	
MNWD - 3A	offline	Manganese	12-Month	mg/L	0.05	0.07	Offline
SOCWA - RTP	6/4/2019	Manganese	12-Month	mg/L	0.05	0.09	
SOCWA - RTP	6/4/2019	TDS	12-Month	mg/L	1000	1084	
SOCWA - CTP	6/4/2019	Manganese	12-Month	mg/L	0.05	0.06	
MNWD - 3A	6/12/2019	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	7/23/2019	Manganese	12-Month	mg/L	0.05	0.09	
SOCWA - RTP	7/23/2019	TDS	12-Month	mg/L	1000	1071	

Recycled Water Report

**Compliance Summary Report
Recycled Water Permit
2019**

Waste Discharge Requirement Order 97 - 52

Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
TCWD - RRWRP	10/19/2018	Nitrate as NO3	Annual	mg/L	45	68	Results reported in January. Agency to begin quarterly accelerated monitoring.
SOCWA - RTP	1/16/2019-1/22/2019	Coliform	30-day Max	cfu/100mL	23	37-548	There were six instances of exceedances of MPN greater than 23 cfu/100mL. Permit limits no more than one sample in excess of 23 in 30 day period. Chlorine contact basin past scheduled annual maintenance due to storm as key contributor to exceedances. Chlorine contact basin cleaned early February.
SOCWA - RTP	1/16/2019	Coliform	Instantons	cfu/100mL	240	548	Chlorine contact basin past scheduled annual maintenance due to storm as key contributor to exceedances. Chlorine contact basin cleaned early February.
SOCWA - RTP	1/22/2019-1/30/2019	Coliform	7 Day Median	cfu/100mL	2.2	3-37	There were nine exceedances of the 7 day median. Chlorine contact basin past scheduled annual maintenance due to storm as key contributor to exceedances. Chlorine contact basin cleaned early February.
SOCWA - RTP	1/3/2019	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	1/3/2019	TDS	12-Month	mg/L	1000	1024	SOCWA began accelerated monitoring.
MNWD - 3A	1/1/2019	Manganese	12-Month	mg/L	0.05	0.06	Plant offline but running annual average continues to be above the permit limit.
SOCWA - RTP	2/5/2019	Manganese	12-Month	mg/L	0.05	0.08	
SOCWA - RTP	2/5/2019	TDS	12-Month	mg/L	1000	1072	
SOCWA - CTP	2/28/2019	Manganese	12-Month	mg/L	0.05	0.06	Plant offline but running annual average continues to be above the permit limit.
MNWD - 3A	2/7/2019	Manganese	12-Month	mg/L	0.05	0.06	
MNWD - 3A	2/9/2019	Coliform	Instantons	cfu/100mL	<2	2419	Suspected sample contamination.
SOCWA - RTP	3/5/2019	Manganese	12-Month	mg/L	0.05	0.07	
MNWD - 3A	3/20/2019	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	4/16/2019	Manganese	12-Month	mg/L	0.05	0.07	
MNWD - 3A	4/30/2019	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	5/16/2019	Manganese	12-Month	mg/L	0.05	0.09	
SOCWA - RTP	5/16/2019	TDS	12-Month	mg/L	1000	1123	
MNWD - 3A	offline	Manganese	12-Month	mg/L	0.05	0.07	Offline
SOCWA - RTP	6/4/2019	Manganese	12-Month	mg/L	0.05	0.09	
SOCWA - RTP	6/4/2019	TDS	12-Month	mg/L	1000	1084	
SOCWA - CTP	6/4/2019	Manganese	12-Month	mg/L	0.05	0.06	
MNWD - 3A	6/12/2019	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	7/23/2019	Manganese	12-Month	mg/L	0.05	0.09	
SOCWA - RTP	7/23/2019	TDS	12-Month	mg/L	1000	1071	

**Compliance Summary Report
Recycled Water Permit
2019**

Waste Discharge Requirement Order 97 - 52

Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
SOCWA - CTP	7/23/2019	Manganese	12-Month	mg/L	0.05	0.06	
MNWD - 3A	7/3/2019	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	8/15/2019	Manganese	12-Month	mg/L	0.05	0.09	
SOCWA - RTP	8/15/2019	TDS	12-Month	mg/L	1000	1064	
SOCWA - CTP	8/15/2019	Manganese	12-Month	mg/L	0.05	0.06	
MNWD - 3A	8/1/2019	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	9/12/2019	Manganese	12-Month	mg/L	0.05	0.10	
SOCWA - RTP	9/30/2019	TDS	12-Month	mg/L	1000	1064	
SOCWA - CTP	9/12/2019	Manganese	12-Month	mg/L	0.05	0.06	
MNWD - 3A	9/30/2019	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	10/2/2019	Manganese	12-Month	mg/L	0.05	0.10	
SOCWA - RTP	10/2/2019	TDS	12-Month	mg/L	1000	1058	
SOCWA - CTP	10/2/2019	Manganese	12-Month	mg/L	0.05	0.06	
MNWD - 3A	10/31/2019	Manganese	12-Month	mg/L	0.05	0.07	
SMWD - OCWRP	10/31/2019	Coliform	Instantons	cfu/100mL	240	1733	SMWD reports unknown source of contamination but that treatment processes were functioning properly.
SOCWA - RTP	11/5/2019	Manganese	12-Month	mg/L	0.05	0.10	
SOCWA - RTP	11/5/2019	TDS	12-Month	mg/L	1000	1042	
SOCWA - CTP	11/5/2019	Manganese	12-Month	mg/L	0.05	0.07	
MNWD - 3A	11/30/2019	Manganese	12-Month	mg/L	0.05	0.07	

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending:

Dec 31, 2019

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	845	700	782	878	933	1,049	898
Chloride	mg/L	375	216	178	193	248	199	240	222
Sulfate	mg/L	400	227	212	188	238	272	282	230
Sodium	mg/L	None	170	140	148	197	180	162	145
Alkalinity	mg/L	None	-	-	-	-	238	223	196
Adjusted SAR	Ratio	None	5.03	4.81	4.85	5.97	4.16	3.97	4.24
Iron	mg/L	0.3	0.029	0.011	0.165	0.117	0.13	0.208	0.129
Manganese	mg/L	0.05	0.020	0.013	0.028	0.009	0.070	0.101	0.066
MBAS	mg/L	0.5	0.07	0.14	0.19	0.19	0.26	0.05	0.07
Boron	mg/L	0.75	0.281	0.320	0.345	0.378	0.30	0.345	0.35
Fluoride	mg/L	None	0.38	0.748	0.69	0.56	0.88	0.96	0.83
Total Organic Carbon	mg/L	None	8.7	12.0	11.3	9.1	6.2	12.1	9.7

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

TDS	1200 mg/L
Chloride	400 mg/L
Sulfate	500 mg/L

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

Agency	Facility or Region	Jan '19	Feb '19	Mar '19	Apr '19	May '19	Jun '19	Jul '19	Aug '19	Sep '19	Oct '19	Nov '19	Dec '19	Annual Totals
CSJC 1	3-A	0.00	0.00	0.00	0.00	0.00	0.00	0.72	19.72	20.69	21.54	24.19		86.86
CSJC 2	Chiquita/ SMWD	0.18	0.00	3.89	35.02	38.25	38.77	37.01	42.02	38.96	35.88	22.32		292.31
CSJC 3	Non-Domestic Well	13.29	3.41	11.50	27.69	18.43	30.35	46.26	43.49	35.62	8.44	4.07		242.55
ETWD	Region 8	23.64	10.09	41.03	130.77	98.00	147.87	197.72	217.60	171.19	158.60	87.93		1284.44
IRWD														0.00
4	IRWD - 8	35.00	11.25	16.55	82.85	115.79	106.75	158.69	161.82	164.62	152.74	107.46		1113.51
4	IRWD - 9	15.72	2.97	10.97	60.60	59.54	69.00	95.59	106.49	96.93	80.73	57.96		656.50
SCWD	SOCWA CTP	-0.83	0.00	0.00	0.00	54.27	97.46	130.23	142.98	125.80	109.71	63.92		723.54
MNWD	JRP	245.54	221.48	112.32	373.36	471.17	551.26	597.14	620.87	571.15	583.61	423.97		4771.88
	3-A Plant	0.00	14.35	74.85	176.55	0.00	0.00	95.39	118.70	129.38	140.22	90.33		839.77
5	CTP	10.71	1.48	-15.58	-74.25	-30.10	5.53	13.20	17.60	15.32	12.78	6.94		-36.37
SMWD	Oso Creek	103.42	142.27	151.76	139.67	138.56	122.54	126.90	147.21	139.97	142.41	138.27		1492.98
	Chiquita	179.53	45.27	55.06	235.14	174.22	364.74	454.75	465.46	425.29	433.17	395.86		3228.47
	Nichols	2.00	1.97	1.94	1.73	1.90	2.03	2.14	2.34	2.10	1.65	1.49		21.29
TCWD	RRWRP	41.93	23.76	22.53	35.95	42.75	41.75	39.98	30.95	34.85	47.67	47.95		410.07
TOTALS		670.14	478.31	486.81	1225.08	1182.77	1578.06	1995.72	2137.24	1971.87	1929.15	1472.65		15127.79

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

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

NR = No Report

Pretreatment Report

Agenda Item

4g

Board of Directors Meeting

Meeting Date: February 6, 2020

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Katie Greenwood, Source Control Manager

SUBJECT: Monthly Pretreatment Report, January 2020
San Juan Creek Ocean Outfall
NPDES Permit #CA0107417 Order #R9-2012-0012
Aliso Creek Ocean Outfall
NPDES Permit #CA0107611 Order #R9-2012-0013

Summary of Program Activities

State contractors conducted a Pretreatment Compliance Audit (PCA) of SOCWA's Pretreatment Program on December 5-6, 2018. Staff received the PCA Report on November 14, 2019 and has prepared a PCA Report Response to submit to the Regional Water Quality Control Board (RWQCB) by February 12, 2020. The PCA Report Response will be distributed among SOCWA's member agencies (MAs) with the end of the month summary email in February 2020.

- The PCA Report includes six required actions for resolution: 1) amend the wastewater discharge (WD) Permit sampling requirements for GP Tech, 2 & 3) amend WD Permits to include adequate permit language to require notification of planned or anticipated bypass discharges and any changes affecting slug discharge potential, 4) revise SOCWA's pretreatment sewer use ordinance (SUO) to include a definition for categorical standard, 5) amend SOCWA's SUO language to correctly reflect IU repeat sampling requirements, and 6) revise Article 9 of SOCWA's SUO to include a description of how instances of noncompliance will be investigated.
- The PCA Report also includes ten recommendations for program improvement including: 1-2) modification of permit language, 3-6) the addition of four definitions to SOCWA's SUO, 7) amendment of SOCWA's SUO language for submittal of IU monitoring results, 8) follow-up with dental users to ensure compliance with the Dental Rule under 40 CFR Part 441, 9) signs be installed over sinks within IU process areas to ensure "No Chemicals Down Drain," and 10) SOCWA Staff perform inspection of all Applied Medical buildings for operations applicable to the metal finishing regulation.
- As noted above, SOCWA is required to amend its SUO. This will also require nine of the member agencies to amend their pretreatment ordinances (EBSD has no industrial users). Staff is completing a draft amendment of the SOCWA Ordinance which will undergo internal review and then be sent out for legal review. When this review is complete, SOCWA's SUO will be brought before the Board of Directors for the amendment adoption process and then submitted to the RWQCB-SD for their files. Staff will also submit revised

“redline” SUOs for each MA to begin its SUO amendment adoption process. This action to amend the pretreatment ordinances is considered non-substantial.

SOCWA Staff has completed the review of annual influent/effluent sampling results for all nine treatment plants including SOCWA (JBL, CTP, RTP), SMWD (Chiquita, 3A, Oso), CSC, IRWD and ETWD and has entered all data into the Water Information Management Solution (WIMS) database so it may be uploaded electronically to the State California Integrated Water Quality System (CIWQS) database. Staff is currently working on the narrative portion of the annual report. The final annual pretreatment report, influent and effluent data and narrative, will be submitted electronically to the RWQCB-SD by March 1, 2020.

Staff continues to utilize the CA Manufacturers Directory, submitted will serve notices, and business licensing data to identify industrial users (IUs) and update each member agency (MA) industrial waste survey (IWS) spreadsheet.

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:

MNWD – WD Permit No. MNWD-2-001 - SOKA University of America STEM Laboratory – University Staff submitted a permit application in October 2019. SOCWA Staff prepared a draft WD Permit currently under review and on hold until construction of the new laboratory is complete and ready for inspection.

CSC – WD Permit No. CSC-2-010 – Reynard Corporation – Reynard is a lens and custom optics manufacturer in the process of expanding. Facility Staff submitted a permit application on December 15, 2019 and SOCWA Staff is preparing a draft permit to regulate the discharge of wastewater produced and associated with photo development, parts stripping/grinding/polishing, and an ultrasonic cleaner.

IRWD – SWD Permit No. IRWD-4-001 – Beacon Bay Enterprises – A permit modification request to increase the daily flow limit was submitted to SOCWA on December 23, 2019 and is currently under review.

SOCWA-4-005 – SMWD – Advanced Purified Water Treatment Facility – Staff received a renewal permit application and is preparing a renewal SWD Permit to continue to allow for the discharge of treated lake water, reject (brine and backwash) water and neutralized cleaning in place (CIP) (from RO, ultrafiltration, and ion exchange treatment) water to the Oso Trabuco sewer trunkline.

Trainings and Committee Meetings Attended

Staff attended the 2020 CWEA Pretreatment, Pollution Prevention, and Stormwater (P3S) Conference in Long Beach January 27-29, 2020. On the first day of the conference, Staff participated as a panelist representing a small agency in the Southern California Alliance of POTWs (SCAP) hosted Current Events Round Table. Hot topics discussed included: PFAS, Cannabis, the Dental Office Category, and EPA audits.

SOCWA Staff continues to attend monthly OC Strike Force Meetings to receive and share legal information related to environmental cases and incidents throughout the county.

Inspections

SMWD - In follow-up to a complaint filed in October 2018 with the RWQCB alleging improper disposal of chemicals used in EvoTech units, SOCWA Staff inspected Mission Hospital on January 16, 2020. Staff confirmed units are being operated in accordance with manufacturer instructions including proper dilution and disposal of the associated CIDEX cleaning chemical.

Enforcement

CSC - On December 30, 2019, Staff issued a Warning Notice of Non-Compliance (WNON) to Flavorchem for failing to submit a wet-signed copy of the self-monitoring report (SMR) Certification statement by postal mail and not properly filling out the chain of custody associated with the November sampling event.

SCWD - On January 20, 2020, Staff issued a WNON to City of Dana Point in relation to the permit for the Salt Creek Ozone Treatment Unit for failing to collect and analyze a sample during the 4th quarter of 2019.

SMWD – As of January 22, 2020, Staff is waiting to receive ProTab’s Annual SMR. Staff anticipates issuing a NON to ProTab Labs for failing to have its clarifier cleaned out during the 2019 year and late submittal of the annual SMR. ProTab may additionally be required to sample its effluent. Staff expects the clarifier to be cleaned before the end of January 2020.

Summary of IWS Activities in the SOCWA Service Area - YTD through January 22, 2020

<u>MA IUs</u>	<u>Events</u>	<u>Permits</u>	<u>NIWD</u>	<u>BMPs</u>	<u>FSEs</u>	<u>OSEs</u>	<u>DSEs</u>	<u>Closed</u>	<u>Enforcement</u>	<u>Total IUs</u>
CLB (S)	0	3	2	5	8	111	0	0	0	129
CSC (S)	1	8	35	18	181	1283	0	0	1	1524
CSJC (S)	1	2	27	59	137	1669	0	0	0	1894
ETWD (M)	1	3	98	0	262	134	0	0	0	497
EBSD (U)	0	1	0	0	0	0	0	0	0	1
IRWD (S)	1	4	51	21	63	920	0	0	0	1059
MNWD (S)	4	4	123	40	623	2063	82	0	0	2934
SMWD (S)	1	6	19	20	197	764	34	0	1	1039
SCWD (S)	0	7	33	7	7	184		0	1	238
TCWD (S)	0	11	0	0	0	33		0	0	44
SOCWA (S)	0	3	1	0	0	0		0	1	4
Totals	9	52	389	170	1478	7161	116	0	3	9366
Other Dentists							368			9734

(S) = SOCWA conducts PT program.
(M) = MA conducts PT program /w SOCWA oversight.
(U) = Urban Diversion Only.
YTD = Year to Date.

NIWD = Non-industrial Waste Discharger.
BMP = Best Management Practices.
FSE = Food Service Establishment.
OSE = Other Surveyed Establishment.

Agenda Item

4h

Board of Directors Meeting

Meeting Date: February 6, 2020

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jason Manning, Director of Engineering

SUBJECT: Capital Improvement Program Status Report

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:

Digester 4 Rehabilitation – Internal coating work on Digester 4 (Left). Potholing and utility location continued electrical conduit routing (Right).



Coastal Treatment Plant Facility Improvements

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

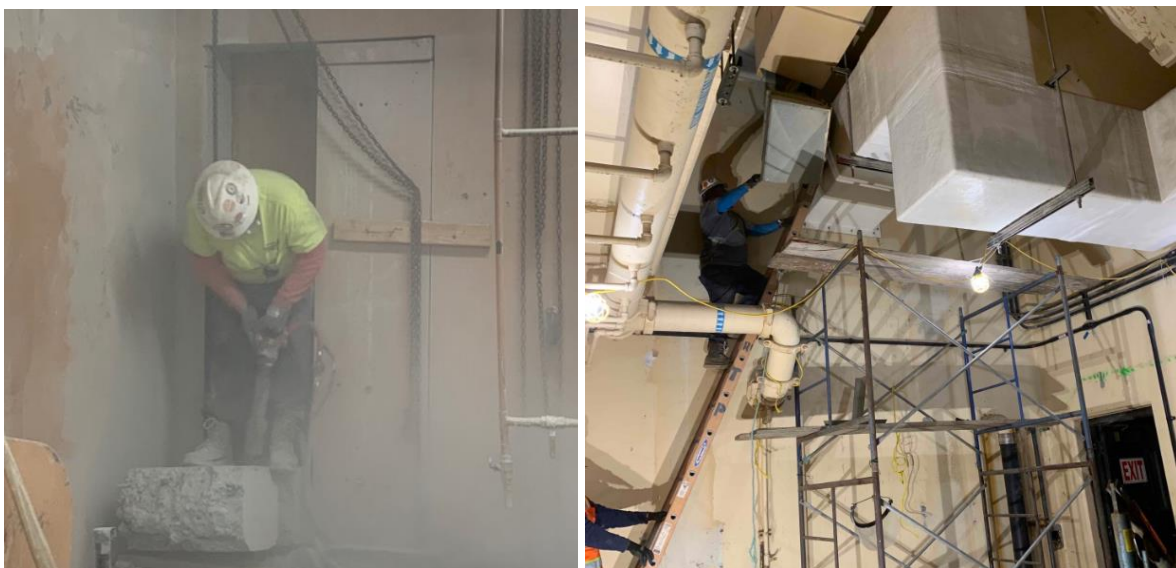
New natural gas line installation (Left). Improvements to the Chlorine Building continue in preparation for new electrical equipment (Right).



Regional Treatment Plant Miscellaneous Improvements 2018

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

New doorway being cut for equipment bay mexannine access (Left). Primary Gallery improvements underway (Right).



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

		Fiscal Year 19/20				Fiscal Year 20/21			
		Quarter	1st	2nd	3rd	4th	1st	2nd	3rd
3220-000; 3216-000; 3287-000	Package B (Plant 1 Basin Repairs, DAF Rehabilitation, Energy Building seismic retrofit and minor rehabilitation, Digester 4 rehabilitation)	C	C	C	C	C	C	C	C
3350-000	MCC "M" Replacement Design	D	D	D	D				
3221-000	Electrical System Evaluation	P	P	P					
3353-000	Centrate System Design		D	D					
4001-000	Plant Drain System Study	P	P						
4201-000	Plant 1 Blower Building Condition Assessment		CA	CA	CA				
4204-000	Electrical Manhole Condition Assessment		CA	CA	CA				
4214-000	Solids Management Plan			P	P				
4202-000	Pipeline Condition Assessment Methodology Evaluation			P	P				
4203-000	Plant Hydraulic Model and Flow Management Plan		P	P	P				
3234-000	Centrate Piping Reconstruction						B&A	C	C
3235-000; 3227-000	Package D Solids Design					D	D	D	D
3285-000	Main Plant Drain Line Reconstruction						B&A	C	C
4205-000	Influent Flow Metering Evaluation					P			
4206-000	Plant 1 Grit Handling Evaluation						P	P	
4207-000	Chlorine Contact Basin/Effluent Pump Station Condition Assessment						CA		
4208-000	Dana Point Influent Sewer Condition Assessment					CA			
4209-000	Plant 1 Influent Sewer Condition Assessment					CA			
4210-000	Plant 1 Bypass Sewer Condition Assessment					CA			
4211-000	Site Storage Evaluation							P	P
3229-000	Drainage Pump Station Reconstruction						B&A	C	C
4212-000	Buried Utility Master Plan						P	P	
4213-000	Electrical Conduit and Cable Master Plan					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 19/20				Fiscal Year 20/21			
		1st	2nd	3rd	4th	1st	2nd	3rd	4th
3525-000	Personnel Building Reconstruction			B&A	C				
3539-000	Facility Improvements Construction (Basin and Electrical rehabilitation)	C	C	C	C	C	C	C	C
3541-000	Export Sludge System Reconstruction					B&A	C	C	C
3553-000	Plant Drainage Improvements			B&A	C	C			
4501-000	Electrical Manhole/Cable Assessment			CA	CA				
4502-000	Building Roof Condition Assessment			CA	CA				
3542-000	South Section Embankment Protection					ENV	ENV	ENV	ENV
15137	Foul Air System Condition Assessment						CA		
15138	Scum Pump Station Condition Assessment							CA	
4503-000	Site Storage Evaluation						P	P	
15139	Buried Utility Master Plan							P	P
3544-000	Aeration Upgrade Construction				D	B&A	C	C	C
3546-000	Chlorine Contact Basin Gates					D	B&A	C	

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 19/20				Fiscal Year 20/21			
		1st	2nd	3rd	4th	1st	2nd	3rd	4th
3701-000; 3769-000; 3751-000	Miscellaneous Improvement 2018 (Secondary electrical upgrades and Primary Gallery rehabilitation, installation of access walkway and Energy Building roof)	C	C	C	C	C			
3753-000	Aeration Diffuser Upgrade			B&A	C	C	C		
3741-000	Southwest Influent Sewer and MH Repair Design								
3756-000	Secondary Clarifier Safety Repairs			B&A	C	C			
3757-000	Miscellaneous Safety Imps - Liquids			B&A	C	C			
3761-000	External Lighting Upgrade			B&A	C	C			
3771-000	Miscellaneous Safety Imps - Solids			B&A	C	C			
3749-000	Phase I Solids Piping Upgrade			B&A	C	C			
3755-000	SE Sewer Rehabilitation								
3758-000	AWT No. 2 Reconstruction				B&A	C	C		
3759-000	AWT No. 2 Electrical Upgrades				B&A	C	C		
3772-000	Hot Water Piping Reconstruction			B&A	C	C			
3766-000	AWT Hypochlorite Tanks Shade			B&A	C	C			
3773-000	Cogeneration System Modifications	D	D	B&A	C	C			
4704-000	Evaluate Plant and Storm Water Drainage System	P	P						
4703-000	Laboratory Reconstruction Evaluation			P	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 19/20				Fiscal Year 20/21			
		Quarter	1st	2nd	3rd	4th	1st	2nd	3rd
17087	Odor Control Chemical Tank					C			
17088	Primary Sedimentation Condition Assessment					CA			
37001-000; 37002-000; 3779-000	MCC A, C, G, H Replacement					B&A	C	C	
37002-000	West Slope Protection						B&A	C	C
37003-000	Admin Building Door & Window Repair						B&A	C	C
3775-000	Aeration Basin Handrail Upgrade						B&A	C	C
3776-000	Effluent Pond Gate Replacement					B&A	C	C	
3777-000; 3778-000	Site Lighting Upgrade							B&A	C
4701-000	Interstage Pump Station Condition Assessment						CA		
4702-000	Site Storage 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. 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 LIQUIDS			
3220-000	Package B Liquids (Plant 1 Basin repairs, DAF rehabilitation)	Construction	The construction contract for Package 'B' was awarded at the April 4, 2019, SOCWA Board meeting.
4201-000	Plant 1 Blower Building Condition Assessment	Study	The contract was awarded at the September 5, 2019 SOCWA Board Meeting.
4202-000	Pipeline Condition Assessment Methodology Evaluation	Study	Project scheduled to begin in February 2020.
4203-000	Plant Hydraulic Model and Flow Management Plan	Study	The contract was awarded at the October 3, 2019 SOCWA Board Meeting.
3350-000	Motor Control Center 'M' Replacement (2019)	Design	This project is part of the JBL Electrical System Evaluation project. The contract was awarded at the October 3, 2019 SOCWA Board Meeting.
CAPITAL IMPROVEMENT PROJECT COMMON			
3231-000	Package B Common (Energy Building seismic retrofit and minor rehabilitation)	Construction	The construction contract for Package 'B' was awarded at the April 4, 2019, SOCWA Board meeting.
3221-000	Electrical System Evaluation	Study	This project is part of the JBL Electrical System Evaluation project. The contract was awarded at the October 3, 2019 SOCWA Board Meeting.
4001-000	Plant Drain System Study (2017) (NCP)	Study	TetraTech is proceeding with the mapping of the drain system.
4204-000	Electrical Manhole Condition Assessment	Study	This project is part of the JBL Electrical System Evaluation project. The contract was awarded at the October 3, 2019 SOCWA Board Meeting.

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

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

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 5 - SAN JUAN CREEK OCEAN OUTFALL CAPITAL PROJECTS
(*19/'20)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECTS			
3601-000	Junction Structure Rehabilitation Design	Design	The proposals for this work were approved at the June 6, 2019 Board Meeting.
3357-000	Junction Structure Reinforcement Permitting and Final Design	Design	The proposals for this work were approved at the June 6, 2019 Board Meeting.

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 15(R) - COASTAL TREATMENT PLANT CAPITAL PROJECTS
('19/'20)**

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECTS LIQUIDS			
3539-000	Facility Improvements (Basin and Electrical Rehabilitation)	Construction	The construction contract for Facility Improvements Project was awarded at the June 6, 2019 SOCWA Board meeting. Task 3595-000 has been combined into to this one Task Code.
3534-000	Export Sludge System (1997)	Design	The California Coastal Commission approved the permit extension. Approval of the Public Access Plan is pending. Due to the timing of the permitting and nesting season, the project has been delayed to start in the fall of 2020.
3358-000	Personnel Building Reconstruction (2019)	Bid	This project is being delayed as we verify ADA compliance for the updates.
3361-000	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.
3362-000	Aliso Creek Long Term Repair Planning (2019)	Planning	The engineering services contracts were awarded to Tetra Tech and Dudek at the August 8, 2019 SOCWA Board meeting.
3553-000	Plant Drainage Improvements (2017)	Design	TetraTech has completed design. Project expected to advertise for bid in January 2020.
3360-000	Vehicle Storage Building Roof (2019)	Construction	Project completed by Operations staff.
4501-000	Electrical Manhole/Cable Assessment	Study	Project is scheduled to begin in March 2020.
4502-000	Building Roof Condition Assessment	Study	Project is scheduled to begin in March 2020.
CAPITAL IMPROVEMENT PROJECT AWT			
3364-000	Chlorine Contact Basin Mixer Construction (AWT) (2019)	Construction	Installation of clearwell pump valves was completed in August 2019. Design of pilot valve panel and installation will likely occur in February or March 2020.

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

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

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

<i>Task Code</i>	<i>Description</i>	<i>Phase</i>	<i>Status</i>
CAPITAL IMPROVEMENT PROJECT COMMON			
3769-000	Trailer Drain Line	Construction	This is the common portion of the Miscellaneous Improvement 2018 project. The construction contract was awarded to Filanc at the May 16, 2019 SOCWA Board meeting.
3744-000	Administration Building Repair Design (2019)	Design	This project has been awarded to Tetra Tech.
3745-000	West Slope Protection Evaluation (2019)	Study	This project has been awarded to Tetra Tech.
3746-000	Motor Control Center A, G, H Design (2019)	Design	The SOCWA Board approved the award of contract to Lee & Ro at the March 7, 2019, SOCWA Board Meeting.
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 scheduled to begin in February 2019.
4704-000	Evaluate Plant and Storm Water Drainage System	Study	Project is scheduled to begin in March 2020.

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

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

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
PROJECT COMMITTEE NO. 21 - EFFLUENT TRANSMISSION MAIN CAPITAL PROJECTS
('19/'20)**

<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	RFP for design to be submitted in March 2020
3106-000	Air Vacuum Release Valve Replacement Reach E Design and Permitting	Design	RFP for design to be submitted in March 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 January 2020.

Agenda Item

5a

Budgeted: Small Capital
Line Item: PC-15 Project # 2520-013
Legal Counsel Review: No
Meeting Date: February 6, 2020

TO: Project Committee No. 15 Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jim Burror, Director of Operations

SUBJECT: Small Capital CTP Roof Fan Installation Project by SS Mechanical Construction for \$61,581.25

Summary

This agenda item provides a recommendation for the award of a small capital project to install new roof fans at the Coastal Treatment Plant (CTP).

Discussion/Analysis

CTP has six roof fans that are failing due to corrosion and need to be replaced. This causes rainwater to leak through the equipment and onto the equipment in the Headworks.

O&M staff already purchased the replacement New York Blower fans directly from the manufacturers representative to ensure that the equipment matched the existing equipment. This is because the supporting electrical and fan control equipment is in good condition and will be maintained. However, O&M staff do not have the installation equipment, expertise, and training to perform the work to remove and replace the existing fans.

Bidding Process

O&M staff contacted the five (5) contractors currently working for SOCWA on larger projects to notify them of this project's bidding. Only two of the contractors indicated that they would be interested in bidding this small project.

The two (2) interested contractors inspected the fan equipment and the Headworks where the equipment will be installed. O&M staff also provided each contractor with information on the expected hydrogen sulfide levels that will be experienced during the project when the existing fans are offline during the project. This is because expected hydrogen sulfide levels may require portable ventilation or for employees to wear respirators during the installation. Lastly, the area is classified as Class 1 - Division 1 under the National Electrical Code. This will require the contractor to use non-sparking tools to perform the work.

Two bids were received for the project, as shown below:

Contractor	Bid
SS Mechanical	\$61,581.25
Pascal and Ludwig	\$80,105.00

The low bidder is SS Mechanical Construction for \$61,581.25.

Prior Related Project Committee or Board Action(s)

None

Fiscal impact

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

This capital purchase is located on a liquid treatment facility. Therefore, the costs are to be allocated using the liquid ownership allocations for PC-15 (CTP). The following are the cost allocations for the project.

Agency	Cap. Ownership	Allocation
CLB	37.91%	\$23,345.45
EBSB	2.99%	\$1,841.28
SCWD	29.85%	\$18,382.00
MNWD	29.25%	\$18,012.52
Total	100.00%	\$61,581.25

Recommended Action

Staff recommends the Project Committee No. 15 Board of Directors to authorize the General Manager to execute a construction contract for installing roof fans at CTP with SS Mechanical Construction in the amount of \$61,581.25.

Agenda Item

5b

Budgeted: Small Capital

Line Item: PC-17 Project # 2720-014

Legal Counsel Review: No

Meeting Date: February 6, 2020

TO: Project Committee No. 17 Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jim Burror, Director of Operations

SUBJECT: Small Capital RTP Drain Slip Lining by Performance Pipeline for \$119,985.00

Summary/Discussion/Analysis

This agenda item provides a recommendation for the award of a small capital project budgeted to slip line a failing drain line at the Regional Treatment Plant (RTP).

RTP's 24-inch plant drain system runs along the property line and Sulphur Creek. The drain line collects plant process drainage, hose rinse water, and onsite stormwater. The drain is routed to a pumping station where it is pumped back to RTP for treatment. In 2016, SOCWA O&M staff installed two additional manholes on this drain line to access sections of the pipe that were completely blocked by roots and nearly caused a spill into Sulphur Creek. It was determined that tree roots, from along the property line, had penetrated 40% of the drain's pipe joints.

O&M staff has been hiring line cleaners annually since 2013. However, the 24-inch drain line has several 45-degree jogs between manholes limiting cleaning to manned entries and hand-cutting. Hand cutting is ineffective and a dangerous process. Also, the cost to hand cut and inspect the line is higher than traditional mechanical cleaning. Hand cutting costs range from about \$7,000 to \$20,000 per year, depending on the extent of the root intrusion.

Due to the elevated cost to clean the line, the inherent danger of manned entries into a 24-inch pipe for cleaning, the critical nature of the drain line, and the close proximity to Sulfur Creek, O&M staff budgeted a small capital project to slip line the drain line.

Bidding Process

The as-built drawings and inspection videos were provided to two (2) potential bidders in September 2019. The two companies were Performance Pipe and Sancon. These two companies were selected because they have completed similar successful projects at SOCWA's plants and with the member agencies.

///

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

Contractor	Bid
Performance Pipe	\$119,985.00
Sancon	\$137,973.00

The low bidder is Performance Pipe \$119,985.00.

Prior Related Project Committee or Board Action(s)

None

Fiscal impact

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

This capital purchase for slip lining is associated with a common treatment facility. Therefore, the costs are to be allocated using the common ownership allocations for PC-17 (RTP). The following are the cost allocations for the project:

Agency	Ownership	Allocation
CLB	11.22%	\$13,462.32
EBSD	0.59%	\$707.91
SCWD	8.96%	\$10,750.66
ETWD	20.41%	\$24,488.94
MNWD	58.82%	\$70,575.18
Total	100.00%	\$119,985.00

Recommended Action

Staff recommends the Project Committee No. 17 Board of Directors authorize the General Manager to execute a construction contract for slip lining the RTP drain line with Performance Pipe at a cost of \$119,985.00.

Agenda Item

5c

Meeting Date: February 6, 2020

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Jim Burror, Director of Operations
SUBJECT: Southern California Association of POTW's (SCAP) Update

Summary

The Southern California Association of POTW's (SCAP) provides periodic updates on key issues, activities, and data related to the wastewater industry in southern California. Two (2) important reports have recently been released, and include the following:

- 1) Annual SCAP Report
- 2) Biennial Biosolids Survey

Discussion/Analysis

SCAP and its members have been heavily involved with a number of new and ongoing issues related to the operation of wastewater treatment plants, including the following:

- California Environmental Laboratory Accreditation Program (ELAP)
- EPA modifications to effluent toxicity limits
- Reopening of the Waste Discharge Requirements (WDR) regulations
- Emerging Per- and Polyfluoroalkyl Substances (PFAS) rules and regulations
- Interior Water Conservation rules and regulations
- Bio-stimulatory/Bio-integrity (Nutrient) policy developments
- Sewer exfiltration investigations and potential regulations
- Proposed outfall plume tracking rules and regulations
- Air quality rules and regulations

The attached report provides a brief summary for each of the key areas for SCAP that are being tracked by many SCAP's many committees.

SCAP also recently completed its bi-annual survey report on Biosolids Management in southern California. The intent of the 2018 survey is to identify current industry trends for the following elements:

- Biosolids production
- Dewatering technologies
- Biosolids management technologies and destinations

- Biosolids management costs and transportation rates
- Agency challenges
- Co-digestion and food waste data
- Agencies future Biosolids management plans

Overall, the report shows that the SCAP agencies are producing less Biosolids, but have larger Biosolids management budgets. The report also concludes that new regulations regarding increased and improved recycling and waste management are impacting wastewater agencies and their end-use of Biosolids. In addition, co-digestion, which incorporates food waste and other organic matter into anaerobic digesters to generate the reusable product, has become a priority for many agencies in California, as it allows agencies to produce more Biosolids and biofuels while reducing the amount of waste going to landfills.

Prior Related Project Committee or Board Action(s)

None

Fiscal impact

None

Recommended Action

Information Item.

SCAP

SOUTHERN CALIFORNIA ALLIANCE OF
PUBLICLY OWNED TREATMENT WORKS



Annual Report Highlights



Heavy engagement with State Water Board:

- ELAP
- Toxicity
- SSS WDR reopening
- PFAS
- Interior Water Conservation



Engagement with SCCWRP:

- Bio-stimulatory/Bio-integrity (Nutrient) Policy
- Exfiltration
- Outfall Plume Tracking

Presentations Provided:

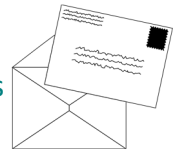
- CASA Winter Conference – Roundtable host for Exfiltration and the San Diego Investigative Order
- CWEA Annual Conference – Exfiltration and the San Diego Investigative Order
- CWEA SS WDR Workshops North and South – State and Regional Climate Change Policies, Exfiltration, and the San Diego Investigative Order
- CASA Annual Conference – The Seven Stages of PFAS
- CASQA Annual Conference – Stormwater Diversion to Sewer, Panel Discussion

Welcome New Members!

City of Beaumont
 City of San Clemente
 Edgecomb Law Group
 Valley Sanitary District

Comment Letters:

- ✓ AB1672 Non-flushable wipes legislation (x2)
- ✓ Rule 11 SDAPCD, 1MGD Pump Station
- ✓ Congressional Infrastructure Funding
- ✓ ELAP SWRCB (x3)
- ✓ SCAQMD – Rule 1403 Asbestos
- ✓ Ocean Protection Council – Phasing out coastal sewage discharge and numeric water recycling goals
- ✓ San Diego RWQCB – Fallbrook PUD, NPDES Permit



In late March, the CWSP met in Pardee Dam for their annual strategic planning meeting

The 2019 Clean Water Summit Partners (CWSP) Priorities:

Water High Priority

- Toxicity Provisions
- PFAS/PFOA
- Exfiltration
- Nutrients
- ELAP

Water Medium Priority

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

Biosolids Priorities

- SB 1383 Implementation
- Transportation/Fuel Credits for Biogas
- Kern County Zoning Ordinance EIR
- CECs (PFAS/PFOA, Microplastics)
- Office of Inspector General Biosolids Report Response
- Fire Reclamation Research

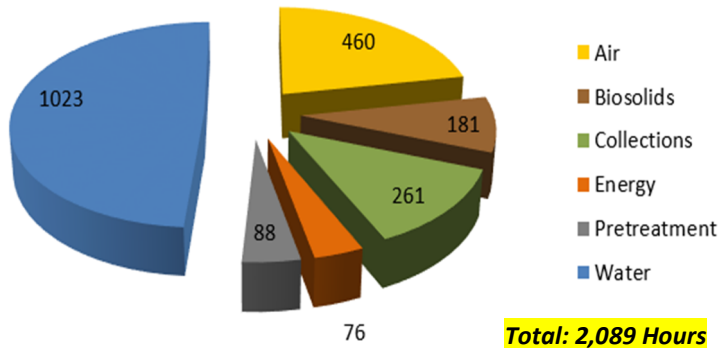


ANNUAL HIGHLIGHTS REPORT

Committee Meetings Held:

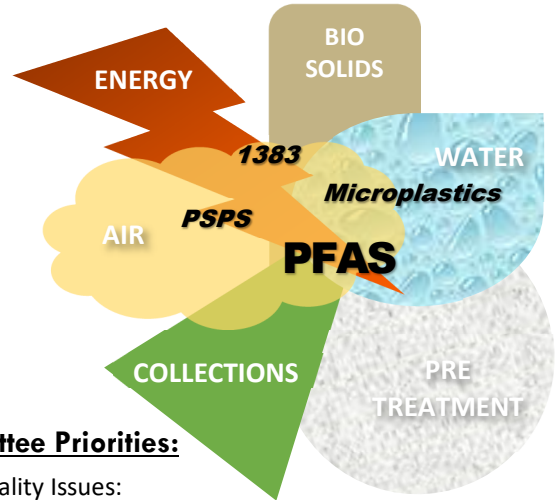
- Eleven Air Committee meetings
- Five Water Committee meetings
 - Committee Updates combined with an introduction to SCCWRP
 - Committee Updates combined with Riverside Regional Plant tour
 - Breaking down silos with respect to stormwater and wastewater collaboration
 - Microplastics (with Pretreatment Committee)
 - PFAS/PFOA (with Pretreatment and Biosolids Committees)
- Two Collection Committee meetings
 - Joint meeting with CASA at IRWD
 - Meeting at LWWD with State Water Board presenting on SSS WDR
- One Pretreatment Committee at IEUA with focus on cannabis
- One Energy Committee meeting at IRWD on new energy provider policies and potential outages for wildfire precautions (PSPS).
- Two Biosolids Committee meetings with CASA

Over 2000 Volunteer Hours in 2019!



Committee Meetings Planned:

- Air Committee will continue to meet monthly
- Water Committee has planned and identified speakers for the following workshops:
 - Stormwater diversion case studies
 - Ocean Plan, Bio-Stim, Advanced Treatment, IPR-DPR
- Collection Committee meetings in Orange County and Ventura/Santa Barbara
- Pretreatment Committee at CWEA P3S – two presentations and one panel discussion
- Energy Committee meeting on new energy provider policies and potential outages for wildfire precautions (PSPS).
- Two Biosolids Committee meetings with CASA, plus a meeting at Las Virgenes – Fire reclamation with biosolids



Committee Priorities:

- Air Quality Issues:
 - AB 617 and AB 2588 Toxic Hot Spots
 - SCAQMD Proposed Amended Rule 1403
 - Asbestos Emissions
 - SCAQMD Proposed Rules 1179.1/1150.3
 - All Biogas Rules
 - SCAQMD Rule 1118.1 - Non-refinery Flares
 - SCAQMD Rule 1110.2 - Emissions from Engines
- Pretreatment Issues:
 - PFAS
 - Dental Office Category
 - Alkaline Hydrolysis
 - Cannabis
 - CERS Data Base Access
 - Microplastics
- Biosolids Issues:
 - SB 1383 Short-Lived Climate Pollutant Reduction
 - AB901 Solids Waste Reporting Rule Implementation
 - PFAS
 - Biosolids Biennial Survey
- Collection Systems Issues:
 - Sanitary Sewer System Waste Discharge Requirements
 - Public Safety Power Shutoff (PSPS)
- Energy Issues:
 - Public Safety Power Shutoff (PSPS)
 - Low Carbon Fuel Standard (LCFS)
 - Funding/Incentives
 - Over-generation and grid stability
- Water Issues:
 - Toxicity Provisions
 - Environmental Laboratory Accreditation Program (ELAP)
 - PFAS
 - Bio-stimulatory/Bio-integrity Provisions plus Ocean Acidification and Hypoxia (Nutrients)
 - Microplastics

Detailed descriptions on the following pages



PRIORITY ISSUE DESCRIPTIONS BY COMMITTEE

AIR QUALITY ISSUES

AB 617 and AB 2588 Toxic Hot Spots

AB 617 directs CARB and air districts to reduce airborne health risks including an update to the AB 2588 Air Toxic Program. CARB and OEHHA have identified over 800 compounds for potential inclusion into the AB 2588 program. This can significantly increase the calculated cancer risk from POTWs. In response, SCAP and CASA are working with CARB to develop a short wastewater-specific list of far less than 800 compounds. Once a shortened list can be agreed upon with CARB, SCAP will work with CASA to coordinate a pooled source testing effort. The testing will include representative POTWs for a reduced list of POTW specific compounds, costs would be shared statewide.

SCAQMD Proposed Amended Rule 1403 – Asbestos Emissions

Originally, Rule 1403 asbestos requirements were limited to buildings, but now underground utilities are to be captured by the rule and SCAQMD is proposing amendments to memorialize this interpretation. This would impose a significant asbestos testing burden upon essential public services without any health benefit to the public. Based upon these concerns, SCAP submitted a comment letter and provided testimony at the Stationary Source Committee meeting. SCAQMD Board members on the Committee directed staff to modify their proposal and address SCAP's concerns. SCAP will continue to work with SCAQMD to identify ways to create a sensible asbestos rule.

SCAQMD Proposed Rules 1179.1/ 1150.3 – All Biogas Rules

Historically SCAQMD has included biogas requirements in rules for natural gas combustion negating the unique nature of biogas. Based upon SCAQMD's recent proposed rules for boilers, turbines and engines, SCAP requested a specific biogas rule be developed. In response, SCAQMD commenced rulemaking activities for biogas facilities. SCAQMD staff are reviewing the lowest potential emissions that could be achieved without consideration of cost. Fortunately, retrofit rules must be deemed cost-effective, so SCAP is working with SCAQMD to determine realistic costs for technologies that could be required by this rule. SCAP members are encouraged to provide construction and operational costs of emission control technologies, such as selective catalytic reduction (SCR).



PRETREATMENT ISSUES

PFAS

In August, DDW lowered the Notification Levels for PFOS to 6.5 ppt and for PFOA to 5.1 ppt. In October the SWRCB issued the Phase 2 13267 and 13383 orders to chrome platers throughout California that required site investigations to determine potential impacts and concentrations of PFAS from stormwater, wastewater effluent, groundwater, or soil at facilities having chrome plating operations. DDW is expected to undertake additional PFAS efforts, including a Phase 3 investigatory order to wastewater treatment facilities and possibly lowering the Response Levels for PFOA and PFOS.

Dental Office Category

We are under one year away from dental offices needing to comply with the Dental Office Category regulations. Existing sources must install and maintain amalgam separators, implement Best Management Practices, comply with reporting requirements, and maintain records if routinely applying or removing dental amalgam. Facilities that do not apply or remove amalgam or do so to a limited extent must certify that they are exempt. New sources must either certify that they are exempt or install dental amalgam separators and meet the other requirements immediately.

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 that is the disposal method for the hydrolysate. Pretreatment Programs are beginning to receive inquiries on industrial wastewater discharge permits for such facilities.

Cannabis

Pretreatment Programs are continuing to receive inquiries and grapple with issuing permits for cannabis-based facilities.

CERS Data Base Access

SCAP investigated access to the California Environmental Reporting System to obtain information on industrial dischargers and their chemical inventories. Cal EPA staff agreed to provide annual data downloads since POTW's are not able to obtain login privileges. This information will greatly bolster a Pretreatment Program's ability to locate potential constituents of concern.

Other Issues

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

Priority Issue Descriptions by Committee



BIOSOLIDS

SB 1383 Short-Lived Climate Pollutant Reduction

The bill requires organic waste diversion, including biosolids, from landfills as follows:

1. 50% by 2020 (relative to 2014 levels)
2. 75% by 2025 (relative to 2014 levels)

The proposed regulation is scheduled to be adopted in January 2020. CalRecycle will start enforcement on January 1, 2022. Items added to the proposed regulations because of CASA/SCAP advocacy include allowance of emergency disposal to landfills, limits on local ordinances for the prohibition of land application of biosolids, and qualification of land application as a reduction pathway/diversion credit. Key concerns still pending include:

1. Procurement of biogas derived only from co-digestion of diverted organics is only eligible. This disallows biogas generated from sewage/sludge digestion even when co-digesting with food waste.
2. Although anaerobic digestion or compost is deemed as recovery/reduction, the proposed regulations does not allow other treatment technologies as a reduction of landfill disposal.

AB 901 Solids Waste Reporting Rule Implementation

For the past several months, we have been informing member agencies to register their facility as part of the new CalRecycle solid waste reporting rule. Effective in late 2018, CalRecycle's reporting rule requires jurisdictions that generate over 100 tons/quarter of solids waste (includes biosolids, grit and screenings) to report their waste. First reporting period is this 3rd Quarter of this year (July-Sept). Report is due December 2, 2019.

PFAS

The Biosolids Committee continues to work with SCAP Water and Pretreatment Committees on the State Water Board's PFAS investigation. At this time, no biosolids samples have been targeted for sampling.

Biosolids Biennial Survey

For the past several months, the Biosolids Committee has been working on the Biosolids Biennial Trends Survey report and collecting data from SCAP member agencies. In total, we have 28 agencies that responded to our questionnaire. We have completed the report and copies will be distributed to member agencies and state partners shortly.



COLLECTION SYSTEMS

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 very productive. 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
- Characteristics of a well performing agency

ENERGY

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

WATER

Toxicity Provisions

The Toxicity Provisions are likely to be adopted by the SWRCB in the spring of 2020. The current provision includes the Test of Significant Toxicity (TST) which is problematic for freshwater dischargers with *Ceriodaphnia dubia* and the crux of the SCAP litigation with EPA. We are still engaging the Water Board to alter this element of the Toxicity Provisions. One concession that has been made is to include a study on the accuracy of the TST with *Ceriodaphnia dubia*. Although this is a positive step, there are still many details to be worked out.

Environmental Laboratory Accreditation Program (ELAP)

The current version of ELAP regulations include the TNI accreditation standard that 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. There is a Water Board workshop for ELAP on December 18. SCAP and other stakeholders are organizing a coordinated testimony for the Board.

PFAS

PFAS is definitely an important issue now. SWRCB has significantly lowered the notification limits, causing several water agencies to turn off supply wells. SCAP is taking an active role with water and wastewater partner agencies to control the narrative. We have had several meetings with the SWRCB to strategically manage investigative sampling orders for POTWs. There are no approved methods for wastewater effluent or influent at this time. POTWs have preliminary data, some of which will be shared with the SWRCB along with caveats of analysis method variability and still developing sampling/handling protocols. We are continuously broadcasting that POTWs do not create PFAS. This is a product stewardship issue.

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.

Agenda Item

5d

	Board of Directors Meeting
	Meeting Date: February 6, 2019

TO: Board of Directors
FROM: Betty Burnett, General Manager
SUBJECT: Request from CASA Renewable Resources for Research Funding Participation

Summary

Greg Kester, CASA's Director of Renewable Resource Programs reached out to CASA agencies to request our consideration to participate in providing funding as related to the development by Office of Environmental and Health Hazards Assessments (OEHHA) of recommendations related to the response and notification levels for PFAS. As you may be aware, CASA anticipates that recommendations developed by OEHHA will be the basis for State Water Board response and notification levels. CASA is concerned that once these levels are set by OEHHA, they will be relied upon to establish public health goals, then MCLs, and potentially future water quality criteria. Thus, while current regulatory efforts underway are focused on drinking water, their effects will be felt by wastewater agencies in the near future.

CASA agencies have questioned the scientific basis and conclusions of many of OEHHA's recommendations and how they will be used in the future, and the independent analysis by OCWD and Intertox have underscored shortcomings in OEHHA's analyses and conclusions. To that end, CASA has requested a proposal from GSI Consultants in Oakland to evaluate the scientific credibility of the OEHHA recommendations from a wastewater perspective, which includes addressing PFAS sources, source contributions, and human exposure. One of the principals at GSI, Rob Schofield, served with Greg Kester as an expert witness in the Kern County litigation on land applied biosolids. He is an expert on risk assessment and toxicology and is intimately familiar with wastewater and biosolids. The Scope of Work for this analysis is attached and has a not to exceed budget of just under \$34,000. CASA is seeking assistance from contributing agencies to this work.

Due to the rapidly moving decision process, the General Manager is requesting that SOCWA consider a funding contribution to this work in the amount of \$2,000.

Recommended Action

Board of Directors to authorize expending \$2,000 in support of CASA technical review of the OEHHA recommendations on PFAS response and notification levels.

27 January 2020

Greg Kester
Director of Renewable Resource Programs
California Association of Sanitation Agencies
1225 8th Street, Suite 595
Sacramento, CA 95814

Re: Letter of Retainer for Consulting Services:
Evaluation of OEHHA's Notification Level Recommendations, PFOA and PFOS
in Drinking Water

Dear Mr. Kester:

This letter formally confirms the arrangement between us, whereby California Association of Sanitation Agencies agrees to retain GSI Environmental Inc. ("GSI"), to undertake work in the captioned matter. For the purpose of this agreement, California Association of Sanitation Agencies is referred to herein as "the Client." The owners, employees, and contractors of GSI Environmental Inc., are jointly referred to herein as "GSI."

In connection with this matter, GSI will provide consulting services to assist with an evaluation of California's Office of Environmental Health Hazard Assessment (OEHHA) Notification Level Recommendations, Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS) in drinking water, as more fully described in our scope of work, Attachment A. The budget for this scope of work will not exceed \$33,700 without prior consent from the Client.

GSI will utilize, at its discretion, its technical and support staff, including, but not limited to, engineers, scientists, regulatory specialists, computer specialist, draftsmen, and clerical personnel, as well as GSI employees and contractors, as needed, to support the consulting and/or testifying expert(s). Services performed by GSI shall be conducted in a manner consistent with the level of care and skill exercised by ordinarily prudent businesspersons in similar conditions. All implied warranties are expressly disclaimed by GSI. No other warranty, either express or implied, is made or intended by GSI with respect to any and all services, reports, and products to be provided to the Client by GSI hereunder.

It is agreed that all communications between GSI and the Client shall be regarded as confidential. The Client will provide GSI with such technical data, reports, and other documents as it deems necessary or desirable to assist in the compliance evaluation. GSI will not disclose any information relating to this matter, whether provided by the Client, or generated as part of GSI's work, to any third-party unless authorized by the Client, except to the extent that such information may be a matter of public record. In the event that GSI receives a request from any third-party for information relating to this matter, GSI will refer that party to California Association of Sanitation Agencies.

27 January 2020



This agreement is intended to cover expert consulting services only. At present, the project is not expected to require field data acquisition or related tasks subject to the OSHA HAZWOPER regulation (20 CFR 1910.120) including, but not limited to, installation or sampling of soil borings or monitoring wells at potentially contaminated sites, etc. In the event such work is requested during the course of the litigation, a supplemental agreement, specifying applicable terms and conditions, may be required before such work may be performed.

In exchange for its services under this agreement, the Client agrees to pay GSI in accordance with the reimbursable rates specified in the attached rate sheet (Attachment B) on a time and materials basis. Invoices are payable to GSI on a net 30-day basis from the date of the invoice. Interest on any and all overdue amounts shall accrue at a per annum rate equal to the lesser of twelve percent (12%) or the maximum rate allowed by applicable law. To facilitate the efficient execution of GSI's work, the Client agrees to provide GSI with all scheduling orders or other schedule notifications relating to GSI's participation in the matter.

We appreciate the opportunity to provide our services to California Association of Sanitation Agencies, and we look forward to working with you on this project. If you are in agreement with the terms and conditions outlined in this letter, please sign and return a copy to GSI. If you have any questions concerning this matter, please call me at 510-463-8485.

Very truly yours,

A handwritten signature in black ink that reads 'Robert Scofield'.

Robert Scofield, D. Env.
Principal

Attachments:

- Attachment A: Work Scope and Budget
- Attachment B: GSI 2020 Standard Rate Sheet
- Attachment C: GSI Standard Terms and Conditions

AGREED TO:

California Association of Sanitation Agencies

ATTACHMENT A - WORK SCOPE AND BUDGET

GENERAL INFORMATION AND SCOPE

Client: California Association of Sanitation Agencies **GSI Proposal No.:** 114-158
California Office of Environmental Health
Hazard Assessment (OEHHA): Notification
Level Recommendations, PFOA and PFOS in
Project: Drinking Water **Date Issued:** 27 January 2020

DESCRIPTION OF WORK: TECHNICAL AND STRATEGIC SUPPORT FOR CALIFORNIA REGULATORY ACTIONS ON PFAS

At your request, GSI Environmental, Inc. (GSI) has prepared this scope of work and cost estimate to complete a critical evaluation of California State Water Resources Control Board's (SWRCB) current and pending regulations on Perfluorooctanoic Acid (PFOA) and Perfluorooctane Sulfonate (PFOS) in Drinking Water. This evaluation will primarily focus on California's Office of Environmental Health Hazard Assessment (OEHHA) *Notification Level Recommendations, Perfluorooctanoic Acid and Perfluorooctane Sulfonate in Drinking Water*.¹ Additionally, as described in Task 2, we will also review and critically evaluate a number of recent technical presentations on PFOA and PFOS regulations in California. In Task 3, GSI will complete a series of analyses regarding the relative significance of different sources of PFAS exposure in the general population and the corresponding levels of exposure. We will specifically consider concentrations of PFAS in biosolids and wastewater, and discuss what these levels mean for humans that may come in contact with these materials. The overarching objective of GSI's work will be to provide written analyses of the implications of California's current and pending regulations on PFOA and PFOS for the management of effluent, wastewater and biosolids in California.

This scope of work and budget represents our current understanding of the technical services requested for the above-referenced project. The specific scope of the services we will provide is described below.

BACKGROUND AND PROPOSED SCOPE OF WORK

Background on OEHHA's Notification Level Recommendations for PFOA and PFOS in Drinking Water

On August 23, 2019, OEHHA released the document, *Notification Level Recommendations, Perfluorooctanoic Acid and Perfluorooctane Sulfonate in Drinking Water*.¹ In that document, OEHHA identified "Reference Levels" (RLs) for PFOA and PFOS, based on non-cancer and cancer endpoints. The cancer-based RLs were 0.1 nanograms/liter (ng/L), or parts per trillion (ppt), for PFOA; and 0.4 ng/L, or ppt, for PFOS, which represent concentrations of each chemical in drinking water that would not pose more than one in one million cancer risk over a lifetime. The corresponding noncancer RLs were 2 ng/L (PFOA) and 7 ng/L (PFOS). OEHHA selected the cancer RLs as the basis for the notification levels (NLs), as they were lower than the non-cancer RLs, and thus were also protective of non-cancer effects. Because the cancer RLs were below concentrations of PFOA and PFOS that can be reliably measured in drinking water, OEHHA recommended that the SWRCB set the NLs at the lowest levels that can be reliably quantified. The SWRCB Division of Drinking Water subsequently set the NLs at 5.1 ppt and 6.5 ppt for PFOA and PFOS, respectively.²

The new NL/RL for PFOA is based on recently-released data from the National Toxicology Program (NTP), which reported dose-related increased incidences in liver and pancreatic tumors in male rats given PFOA

¹ <https://oehha.ca.gov/media/downloads/water/chemicals/nl/final-pfoa-pfosnl082119.pdf>

² <https://www.waterboards.ca.gov/pfas/>

in the diet over a two-year period.³ The NTP PFOA cancer data were recently evaluated by an Expert Panel, who determined that the data supported clear evidence of carcinogenic activity in male rats and some evidence of such activity in female rats.⁴

OEHHA used benchmark dose modeling of the NTP's PFOA data to derive a cancer slope factor (CSF) of 143 (mg/kg-d)⁻¹. Previously, California's interim NLs had relied on New Jersey's CSF for PFOA of 0.021 (mg/kg-d)⁻¹ based on testicular tumors in rats. The new NL/RL for PFOS is based on a CSF of 45.5 (mg/kg-d)⁻¹, calculated from the only available study of PFOS' carcinogenicity, which reported an increased incidence of hepatic tumors in high-dose rats.⁵ California's interim NL for PFOS had been based on immune system (non-cancer) effects.

Noncancer RLs were also calculated for PFOS and PFOA. The current noncancer RL for PFOA is based on a LOAEL of 0.05 (mg/kg-d), which corresponds to a serum concentration of 0.97 mg/L in mice.⁶ The LOAEL was identified based on changes in hepatic mitochondrial membrane potential, increased apoptosis and increased oxidative DNA damage. A total uncertainty factor of 300 is applied to the Point of Departure (POD) to calculate the acceptable daily dose: 10 for intraspecies variability, 3 for LOAEL to NOAEL, 3 for interspecies variability, and 3 for developmental toxicity potential at the POD. OEHHA applied the potential developmental toxicity uncertainty factor due to identification of a separate study where decreased body weight in female pups was identified at a lower oral administered dose.⁷ The current noncancer RL for PFOS is based on a NOAEL of 0.008 (mg/kg-d), which corresponds to a serum concentration of 0.674 (mg/kg-d). The NOAEL was identified based on decreased plaque-forming cell response in male mice.⁸ A total uncertainty factor of 30 is applied to the POD to calculate the acceptable daily dose: 10 for intraspecies variability, 3 for interspecies variability.

Because the data, assumptions, and calculation methods used to derive the current RLs will likely be followed for developing the pending Response Levels, Public Health Goals (PHGs) and Maximum Contaminant Levels (MCLs), it is essential to understand – and to document – their basis. This documentation can be used to inform technical staff at CASA, but can also serve as a framework for comments that can be provided to OEHHA during public review of the PHGs and/or MCLs.

Task 1. Provide Technical Review and Analysis of OEHHA's Notification Level Recommendations for PFOA and PFOS In Drinking Water

In this task, GSI will provide expert analysis of OEHHA's Notification Level Recommendations for PFOA and PFOS in drinking water, and if adopted as PHGs or MCLs, how they may impact management of effluent, wastewater and biosolids.

To that end, GSI will conduct a critical evaluation of OEHHA's NLs/RLs, focusing on that agency's selection of tumor incidence data; their relevance to humans; the existence (or absence of) supporting epidemiologic data; the overall weight of evidence for PFOA's and PFOS's carcinogenicity; and the appropriateness and accuracy of the benchmark dose modeling used to calculate the CSF's for PFOA and PFOS. Furthermore, while not utilized as the basis of OEHHA's PFOA and PFOS recommended notification levels, a critical review of the data, assumptions, and calculation methods used to derive the noncancer PFOA and PFOS RLs will be conducted by GSI. GSI will critically evaluate OEHHA noncancer RLs by focusing on the selection of the identified adverse effect; the relevance to humans, the existence (or absence of) supporting epidemiologic data; and the appropriateness of the uncertainty factors applied to calculate the acceptable daily dose for PFOA and PFOS.

³ National Toxicology Program (2019).

https://ntp.niehs.nih.gov/ntp/about_ntp/trpanel/2019/december/tr598draft.pdf

⁴ <https://ntp.niehs.nih.gov/update/2020/1/pfoa/index.html>

⁵ Butenhoff et al., 2012 <https://www.ncbi.nlm.nih.gov/pubmed/22266392>

⁶ Li et al., 2017 <https://www.ncbi.nlm.nih.gov/pubmed/28885018>

⁷ Von Esterik et al., 2016 <https://www.ncbi.nlm.nih.gov/pubmed/25827101>

⁸ Don et al., 2009 <https://www.ncbi.nlm.nih.gov/pubmed/19343326>

GSI will document our evaluation of OEHHA's NLs, noncancer RLs in a technical memorandum. That memorandum will contain summary tables, full and complete references for all reports and scientific articles cited, explanations of the benchmark dose modeling, and supporting equations, if appropriate. We will briefly summarize the available epidemiologic data for both cancer and noncancer endpoints, focusing on the available evidence for hepatic and pancreatic tumors in human populations exposed to PFOA or PFOS. GSI will also include a discussion of current scientific perspectives on the mode of action of rodent hepatic and pancreatic tumors induced by PFAS and discuss the implications for extrapolating rodent tumor data to humans.

Additionally, GSI will analyze a separate independent assessment of OEHHA's Notification Level Recommendations for PFOA and PFOS in Drinking Water provided to GSI by CASA. We will briefly evaluate the scientific basis and adequacy of the assessment and assess the relevance of their findings to the management of effluent, wastewater, and biosolids in California.

The estimated cost for this task is **\$12,000-14,000**.

Task 2. Independent Review of PFAS Technical Presentations

Due to the scope of recent regulatory actions in California, and pending additional PFOA and PFOS regulations, a number of presentations were organized or conducted by OEHHA, SWRCB, and water agency trade associations in 2019. These presentations have focused on toxicologic and other technical and policy considerations related to the regulation of PFOA and PFOS in the state. A review of these presentations is likely to provide insight and understanding of the current California regulatory environment on PFOA and PFOS, as well as the likely direction of future regulatory actions.

Accordingly, GSI will view, summarize, and evaluate recent relevant PFAS technical presentations (webinars, slides, or other supporting material) that may provide valuable insight into the timeline, implications, and consequences of current and pending SWRCB regulations on PFAS that may affect the operation, costs, or liabilities of California sanitation agencies. Based on communications to date with CASA, it is GSI's understanding that CASA is interested in an evaluation of the following technical presentations:

- 3/6/19 SWRCB Workshop Presentations on PFAS
- 10/17/19 Association of California Water Agencies (ACWA) PFAS Regulatory Summit
- 11/15/19 OEHHA PFOA and PFOS Public Health Goal Meeting
- 11/19/19 SWRCB Board Meeting
- 12/4/19-12/5/19 SWRCB PFAS Technical Seminar

For this task, GSI will summarize relevant PFAS information from each technical presentation and evaluate and interpret the potential significance that this information may have on the management of effluent, recycled water and biosolids. Our discussion of these presentations will be incorporated into our project report. In addition to our written evaluation, the report will contain summary tables, references, and other supporting information, as appropriate.

The estimated cost for this task is **\$7,500-8,200**.

Task 3. PFAS Sources, Source Contributions, and Human Exposure

One of the key challenges in addressing the potential health impacts of PFAS exposure is that members of the public may not understand that there are substantial differences in levels of exposure between the PFAS doses used in animal studies, those that caused adverse human effects in some highly visible epidemiology studies, and those that the public may incur from the various low-level sources that contribute to "background" exposures in the United States. The public's concern over PFAS may be exacerbated by PFAS regulatory criteria, which are often interpreted literally to be exposure concentrations which cause an adverse effect. That is, the public often fails to recognize that the criteria incorporate uncertainty factors and other assumptions that lead to intentionally health-protective concentrations. As a result, organizations like CASA may need to respond to questions and concerns regarding perceived hazardous exposure

conditions, when there may be little evidence that a specific concentration of PFAS represents a concern for human health.

Accordingly, the goal of this task is to provide CASA with information and analyses that can be used to effectively communicate to the public technically-accurate information regarding the sources and levels of PFAS exposure in the general population.

GSI will begin this task by identifying, and to the extent data is available, quantifying key sources of PFAS exposure in the general population (e.g., food, food packaging, consumer products, etc.). There are multiple peer-reviewed publications that we can draw on to develop this information, as well as compendia from organizations such as the Agency for Toxic Substances and Disease Registry (ATSDR) and the Interstate Technical and Regulatory Council (ITRC). We will also discuss and document the relative importance of each exposure source in terms of the percent contribution to total human PFAS exposure, depending on data availability. Our evaluation will specifically address potential exposures to PFAS levels in wastewater and in biosolids, and discuss the concentrations that have been documented in these media, and the relative levels of these exposures compared to other sources. As a related analysis, we will use the National Health and Nutrition Examination Survey (NHANES) data to demonstrate that PFOA and PFOS serum concentrations in the general population have declined in the years since PFOA and PFOS production were phased out by US manufacturers.⁶ If published data are available, we will supplement this evaluation with a discussion of the magnitude of the decline in PFAS exposure concentrations in the general population. GSI will also evaluate the PFAS serum concentrations from animal studies selected by OEHHA to support the derivation of NLS (see Task 1) and by the USEPA for their drinking water health advisories of PFOA and PFOS. We will examine the human equivalent doses (expressed as serum concentrations) derived from these animal studies, and compare them to current and historic levels of PFOA and PFOS documented by NHANES. The goal of this evaluation will be to determine how the serum levels used by OEHHA and the USEPA to support regulatory criteria compare to those serum levels documented in the general population.

For those PFAS exposure sources with documented intake levels, we will identify these levels, and will compare them to health-based acceptable exposure levels derived in human health risk assessments (HRAs) of biosolids that have been conducted by regulatory agencies. During our evaluation of these HRAs, we will discuss the routes of human exposure, and the relative levels of these exposures compared to other environmental sources. If the HRAs are not readily-available, GSI may request assistance from CASA in obtaining these documents from the various state agencies.

Because regulatory agencies have identified drinking water contamination from wastewater and biosolids as a key concern, we will identify locations where PFOA and PFOS contamination of drinking water has been attributed to these sources, and develop a matrix of predicted human serum (blood) concentrations that could result from drinking PFAS-contaminated water. We will examine how these predicted serum concentrations compare to both current and past PFAS serum levels in the general population, using data developed by NHANES, and by Biomonitoring California.⁷

The estimated cost for this task is \$9,000-11,500

⁶ <https://www.cdc.gov/exposurereport/index.html>

⁷ <https://biomonitoring.ca.gov/results/chemical/2183>


PROJECT COST

Task/Description	Labor
1. Technical Review and Analysis of OEHHA's Notification Level Recommendations for PFOA and PFOS In Drinking Water	\$ 12,000 – 14,000
2. Independent Review of PFAS Technical Presentations	\$ 7,500 – 8,200
3. PFAS Sources, Source Contributions, and Human Exposure	\$ 9,000 – 11,500
Project Total:	\$ 28,500 – 33,700

ADDITIONAL INFORMATION

Remarks: Invoices will be based on the rates specified in the attached fee schedule (Attachment B). Total charges will not exceed the authorized amount without prior approval from CASA representatives.

REQUIRED SIGNATURES:

Submitted by: 
Robert Scofield, D. Env., M.P.H.
Principal Toxicologist
GSI Environmental Inc.

Approved by: _____
California Association of Sanitation Agencies

Date: 27 January 2020 **Date:** _____

ATTACHMENT B
GSI Environmental Inc.

FEE
SCHEDULE
Effective
January 2020

P E R S O N N E L	R A T E / H R
01 Project Assistant.....	\$85
02 Accounting Specialist	\$125
03 Researcher.....	\$150
04 Environmental Technician	\$85
05 Senior Environmental Technician	\$95
06 CADD /Graphics Specialist.....	\$105
07 Computer Programmer.....	\$130
08 Data Scientist.....	\$140
09 GIS Specialist, Senior Data Scientist, Senior Programmer, Senior Researcher	\$175
10 Engineer/Scientist/Geologist I.....	\$120
11 Engineer/Scientist/Geologist II.....	\$130
12 Engineer/Scientist/Geologist III.....	\$150
13 Engineer/Scientist/Geologist IV	\$175
14 Senior Engineer/Scientist/Geologist I.....	\$185 - \$200
15 Senior Engineer/Scientist/Geologist II.....	\$205 - \$225
16 Senior Associate.....	\$230 - \$320
17 Principal	\$250 - \$420
18 Communications Fee.....	4% of personnel costs

E Q U I P M E N T	
Field Vehicle.....	\$120/day
Standard Sampling and Field Equipment.....	\$80/day
Photoionization Detector (PID).....	\$100/day
Portable Generator.....	\$80/day
Air Sampling Equipment.....	\$100/day
Low-Flow Sampling Instrumentation.....	\$100/day
Submersible Pump.....	\$200/day
Sampling Pumps	\$55/day
Trimble T10/R1 Precision GPS Unit.....	\$150/day
Level C Personal Protective Equipment.....	\$35/person/day
Level D Personal Protective Equipment.....	\$20/person/day
HAPSITE GC/MS	\$1,000/day
Rental Equipment Cost.....	cost + 15%

O T H E R E X P E N S E S	
Outside Subcontractor Services	cost + 15%
Miscellaneous Expense (Travel, Shipping, Supplies, etc.)	cost + 15%
Non-Routine Photocopies (B&W)	\$0.10/ea.
Color prints/photocopies.....	\$0.25/ea.
Mileage - Private Vehicles (subject to change in accordance with IRS adjustments)..	\$0.575/mile (Federal Rate)
Computer (Modeling/Engineering/GIS Applications Only).....	\$25/hr
Insurance Certificates Cost (Specific Endorsements and/or Waiver of Subrogation).....	cost + 15%

P A Y M E N T
All invoices are due and payable within 30 days of the billing date. Attorney's fees, court costs, and other related expenses incurred in the collection of delinquent accounts will be paid by the client. A charge of 1.5 percent per month applies to delinquent bills.

This fee schedule applies to services rendered in 2020. Charges for all services in subsequent years will be based on a new fee schedule effective January 1 of that year.

STANDARD TERMS AND CONDITIONS
GSI ENVIRONMENTAL INC.

- 1) **GSI's Obligations.** GSI shall provide to Client environmental consulting services as mutually agreed and specified in writing (e.g., a Retention Letter). Any additional services provided by GSI to the Client will also be governed by these Terms and Conditions, unless otherwise stipulated in writing.
- 2) **Payment.** In exchange for the performance by GSI of its obligations, the Client agrees to pay GSI for consulting services in accordance with the reimbursable rates specified in the referenced Retention Letter. In the event that a written proposal is provided by GSI, total project costs will not exceed the budget total specified in the GSI proposal unless additional cost is authorized in advance by the Client.

Invoices are payable to GSI on a net 30 day basis from the date of the invoice. Interest on any and all overdue amounts shall accrue at a per annum rate equal to the lesser of twelve percent (12%) or the maximum rate allowed by applicable law.

- 3) **Warranty.** Services performed by GSI shall be conducted in a manner consistent with the level of care and skill exercised by ordinarily prudent business persons in similar conditions. Any and all goods provided by GSI pursuant to this Agreement are as provided in an "AS IS - WHERE IS" condition with all faults. All implied warranties are expressly disclaimed by GSI. No other warranty, either express or implied, is made or intended by GSI with respect to any and all services, reports, and products to be provided by GSI hereunder.
- 4) **On-Site Responsibilities and Risks (as applicable).**
 - a. **Right-of Entry.** Unless otherwise agreed, Client shall furnish reasonable rights-of-entry during normal business hours to any and all lands controlled by Client that are necessary in order for GSI to perform its obligations hereunder, and shall obtain such permits and other third-party authorizations as are reasonably requested and required by GSI to perform the services set out in Section 1 above.
 - b. **Toxic and Hazardous Materials.** Client shall promptly provide GSI with all written and oral information within its possession or knowledge as to the potential existence of toxic or hazardous materials at the site with respect to which GSI is performing services hereunder. If unanticipated hazards are encountered, GSI reserves the right to terminate its obligations at Client expense or to make reasonable adjustments to the project scope and cost as necessary to maintain safe working conditions and comply with applicable laws and regulations.

- c. Utilities and Pipelines. While performing its obligations hereunder, GSI shall take reasonable precautions to avoid damage to subterranean and subaqueous structures, pipelines, and utilities. GSI and its officers, agents, employees and subcontractors shall not be liable to Client, or any other party for any damage to such structures, pipelines and utilities that are not called to GSI's attention by Client or that are not correctly shown on the plans furnished to GSI by Client prior to the performance of any of GSI's obligations hereunder.
- 5) Insurance. For the purpose of this Agreement, GSI shall carry the following types of insurance in at least the limits (which may be a combination of primary and excess coverage) specified below:

<u>COVERAGE</u>	<u>LIMITS OF LIABILITY</u>
Worker's Compensation	Statutory
Employer's Liability	\$500,000 each occurrence
General Liability, including Bodily Injury and Property Damage	\$1,000,000 each occurrence
Automobile Liability, including Bodily Injury and Property Damage	\$1,000,000 each occurrence

- 6) Limitation on GSI's Liability
- a. If for any reason GSI becomes liable to the Client, or any party claiming through the Client, for any cost, expense or damages, GSI's aggregate liability to all such persons shall be limited to the lesser of the contract price paid to GSI hereunder or the limits of GSI's insurance coverage, and in no case shall exceed the limits of GSI's insurance coverage. GSI shall not be liable to the Client for Client's loss of revenue or profit, loss of contracts, business interruption, or loss of use of assets, or for any consequential, indirect, punitive, or exemplary damages, arising out of the performance or non-performance of this Agreement, regardless of whether liability is based on breach of contract, breach of warranty, tort (including sole or concurrent negligence), strict liability, statute, or other basis of legal liability.
 - b. GSI shall not be responsible for the interpretation by others of the information developed by GSI. Any reports prepared hereunder are prepared on behalf of and exclusively for the use of the Client. The report and the findings contained therein shall not, in whole or in part, be disseminated or conveyed to any other party or be used or relied upon by any other party, in whole or in part, without the prior written consent of GSI.
 - c. Nothing contained within this agreement shall be construed or interpreted as requiring GSI to assume the status of a generator, storer, or treatment or disposal facility as those terms appear within the Resource Conservation and Recovery Act, 42 USCA, Section 6901, et seq., as amended, (hereinafter "RCRA") or within any state statute governing the treatment, storage, and

disposal of waste. The Client will assume the responsibility for compliance with the provisions of RCRA and any state statute governing the treatment, storage, and disposal of waste. In the event Client requests GSI's assistance in meeting its obligations, as set forth within this Article, GSI, as requested and directed by Client, will provide the following: 1) perform analytical testing to assist Client in the proper characterization of the waste for manifest preparation; 2) identify potential transporters, storage, and disposal facilities which may be used in the transport, storage, and disposal of wastes collected; 3) enter into subcontract or purchase order arrangements with transporters and/or storage and disposal facilities selected by Client; and 4) prepare manifests for Client's approval and execution.

- 7) Indemnification. GSI shall defend, indemnify, and hold Client harmless from and against all claims, demands, and causes of action asserted by any person or entity (other than an officer, director, employee, or agent of Client) arising directly or indirectly out of 1) GSI's negligence, or 2) GSI's breach of any obligation or responsibility imposed on it by the provisions of this Agreement, or 3) the negligence of any agent of subcontractor of GSI with respect to the services rendered hereunder. Client shall defend, indemnify, and hold GSI harmless from and against any claim asserted by any person or entity (other than an agent, officer, director, employee, successor, assign, or subcontractor of GSI) arising directly or indirectly out of 1) Client's negligence, or 2) Client's breach of any obligation or responsibility imposed on it by the provisions of this Agreement.
- 8) Scope Modifications. If GSI and Client agree to modify the services, reports, and/or products to be provided by GSI as set forth in its Retention Letter or Proposals, then Client agrees to pay all costs and expenses incurred by GSI in connection with such scope modifications.
- 9) Confidentiality and Recordkeeping. All documents prepared or furnished by GSI pursuant to this Agreement shall become the confidential property of Client. GSI shall have the right to use and retain copies of such documents. However, GSI shall not, during or after the term of this Agreement, disclose any such confidential documents to any person, firm, corporation, association, or other entity, unless instructed otherwise by Client or required by law. GSI shall maintain for Client all such documents for a period of two (2) years after completion of the services or for any greater period of time required by law.
- 10) Termination of Engagement. GSI may terminate its engagement by Client, or its obligations hereunder, at any time upon written notice to Client in the event that it believes, in its sole and absolute discretion, that Client will not perform any portion of its obligations under this Agreement. Client may terminate this Agreement at any time by giving notice in writing to GSI. No payments shall be incurred under this Agreement by Client for services performed or costs incurred after the effective date of termination of this Agreement except for costs directly related to work performed by GSI in termination. The terms and provisions of paragraphs 6, 7, and 9 shall survive the termination or expiration of this Agreement.
- 11) Successors and Assigns. Obligations of Client and GSU shall be binding upon the parties hereto and their respective heirs, legal representatives, successors, and

assigns; and subject to the provisions of the following sentence, this Agreement shall inure to the benefit of the parties hereto and their respective heirs, successors, and assigns. Neither party may directly or indirectly assign, transfer, or delegate in any manner any of their respective rights or obligations under or relating to this Agreement without the written consent of the other parties.

- 12) Governing Law. This Agreement shall be construed in accordance with, and the rights and duties of the parties hereto shall be governed in all respects by, the laws of the State of Texas.
- 13) Term and Force Majeure. Except for the obligation to pay for services rendered, neither party hereto shall be liable for the failure to perform hereunder, in whole or in part, due to contingencies beyond its reasonable control, including, but not limited to, strikes, riots, war, fire, act of God, and actions by governmental authority.

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Agenda Item

5e

Board of Directors Meeting

Meeting Date: February 6, 2019

TO: Board of Directors
FROM: Betty Burnett, General Manager
SUBJECT: Resolution 2020-03, A Resolution of the South Orange County Wastewater Authority Establishing a Disaster Purchasing Policy

Summary

SOCWA's Procurement and Contract Administration are working in cooperation with the Martinet Group to develop documentation that will meet the requirements of the Federal Emergency Management Agency (FEMA) and improve SOCWA's emergency response preparation. The attached Resolution and Policy documents are advance steps that set up the compliance requirements applicable to Federal and State disaster and response funding. Without the proper procedures in place, in advance of a disaster declaration, SOCWA may not be considered compliant if a FEMA audit of disbursed funds were to occur.

The attached article highlights the importance of advanced authorization to procure goods, services and equipment when agency standard procedures are not able to be met. In addition to the adoption of the Resolution and Policy, SOCWA staff will be trained on purchasing and proper record keeping for Federal compliance.

Martinet Group specializes in disaster cost recovery training and assists local agencies in declared disasters. Mr. Martinet's experience in California includes work on the San Diego Wildfires of 2003, the Rim Fire of 2013, the 2017 flood events and the Camp Fire of 2018.

Recommended Action

Staff recommends that the Board of Directors adopt Resolution 2020-03, A Resolution of the South Orange County Wastewater Authority Establishing a Disaster Purchasing Policy.

Resolution No. 2020-03

A RESOLUTION ADOPTED BY BOARD OF DIRECTORS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY ESTABLISHING A DISASTER PURCHASING POLICY

February 6, 2020

WHEREAS, the Board of Directors of the South Orange County Wastewater Authority, (hereinafter AUTHORITY), finds it is in the best interests of the AUTHORITY that its staff be expressly authorized to act to protect the public in the event of an emergency, or disaster as proclaimed under this policy; and

WHEREAS, the AUTHORITY has the authority to promote disaster preparedness internally as well as with the public and to plan appropriately to respond to an emergency or disaster which may threaten life safety, the public health, and;

WHEREAS, the AUTHORITY has previously developed and adopted an Emergency Response Plan¹ which sets forth procedures for responding to a Disaster and has directed the training of AUTHORITY employees to enable them to facilitate the continuity of operations and government and assist the public following a disaster and by providing a guide for the effective mobilization of AUTHORITY resources and facilities to address a disaster, and;

WHEREAS, there may be situations under the Emergency Response Plan, or otherwise in connection with an emergency or disaster, where the authority of certain AUTHORITY staff or other personnel to take certain necessary actions may be contingent upon the prior written authorization of the AUTHORITY; and

WHEREAS, the AUTHORITY desires to adopt this Resolution in order to set forth the formal authority of the General Manager, or his/her designee(s), to take any and all appropriate action in connection with, and in response to, an emergency or disaster;

NOW, THEREFORE, BE IT RESOLVED, by the Board of Directors of South Orange County Wastewater Authority as follows:

1. The General Manager or his/her designee is hereby authorized to take any and all appropriate actions in connection with, and in response to, a disaster event. For example, and not by way of limitation, the General Manager or Emergency Operations Center (“EOC”) Director is hereby authorized to implement the emergency provisions in accordance with the Emergency Response Plan and activate the Emergency Operations Center in the event of a disaster. In the event said authority and subsequent action of the General Manager or EOC Director is taken, it shall be subject to verification or ratification by the Board of Directors. The General Manager or EOC Director shall report to the Board of Directors and request verification and ratification of actions taken within ten (10) days or as soon as practical during or after a disaster, as may be required under applicable law. The Board shall meet as soon as practical after such report.

¹ Authority Emergency Response and Disaster Contingency Plan, GSP7, SOCWA Safety Manual 2019-2020.

2. Except as may be otherwise required under applicable law or the rules or regulations of the AUTHORITY, the authority of the General Manager or EOC Director as set forth in this Resolution shall include the authority to make individual purchases of services, equipment, or materials up to \$250,000 without prior Board approval during a Disaster², subject to any and all verification and ratification requirements as applicable.

3. When the General Manager or EOC Director determines that the public exigency or emergency necessitating the requirement to procure services, equipment, or materials will not permit a delay resulting from competitive solicitation, the authority of the General Manager or EOC Director as set forth in this Resolution shall include the authority to waive the requirement to comply with 2 CFR Part 200 for obtaining three (3) documented quotations for quality based competitive procurement for services, equipment, or materials, if such process would adversely affect the AUTHORITY's ability to readily obtain such necessary services, equipment, or materials during the proclaimed emergency or disaster.

4. Such authority to waive the requirement for three (3) documented quotations, shall only be permitted when the procurement is necessary to address an imminent threat to life safety, the public health, or to prevent damage, or further damage, to the AUTHORITY's facilities or other public or private property, or damage to the environment.

5. This Resolution shall be effective upon adoption. This Resolution shall supersede and otherwise control over any other resolution or other rules and regulations of the AUTHORITY which may be in conflict with the provisions of this Resolution.

PASSED AND ADOPTED BY the Board of Directors of the SOCWA, County of Orange, State of California on the 6th day of February 2020.

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Daniel R. Ferons, Chairman

Betty Burnett, General Manager and Board Secretary

(Seal)

² Disaster means a proclaimed emergency or disaster or an event that is an immediate threat to life, public health, or safety, or actions necessary to eliminate or reduce an immediate threat of significant damage to improved public and private property through cost-effective measures.

STATE OF CALIFORNIA)
) ss.
COUNTY OF ORANGE)

I, BETTY BURNETT, Secretary of the Board of Directors of the SOUTH ORANGE COUNTY WASTEWATER AUTHORITY (“SOCWA”), do hereby certify that the foregoing is a full, true and correct copy of **Resolution No. 2020-03** of said Board and that the same has not been amended or repealed.

Dated this **6th day of February 2020**.

Betty Burnett, Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Purchasing Policy for Use During a Proclaimed Emergency or Disaster

§ 1 Purpose.

This Policy modifies the normal purchasing procedure of South Orange County Wastewater Authority, (hereinafter AUTHORITY), to assure that, in both an emergency or disaster, the AUTHORITY is able to acquire the goods and services required to address an immediate threat to life, public health, or safety, or to eliminate or reduce an immediate threat of significant damage to improved public and private property through cost-effective measures while still maintaining an effective purchasing process and complying with applicable local, state, and Federal purchasing regulations. Where the AUTHORITY is included in a major emergency or disaster declared by the President of the United States, this Policy also assures that the AUTHORITY's procurements comply with Federal regulations applicable to Federal Emergency Management Agency ("FEMA") disaster grant reimbursement as defined in Title 2 of the Code of Federal Regulations, Part 200. (hereinafter 2 CFR, Part 200).

§ 2 Definitions

For purposes of this Policy,

- 2(a). A proclaimed emergency or disaster exists if:
 - 2(a)(i). The Governor has proclaimed a state of emergency for an area which includes any part of the geographic territory of the AUTHORITY; or
 - 2(a)(ii). The General Manager of the AUTHORITY (or his/her authorized designee) has proclaimed an emergency or disaster for the AUTHORITY; or
 - 2(a)(iii). The County of Orange has proclaimed a local emergency or disaster; or
 - 2(a)(iv). One or more cities within the geographic territory of the AUTHORITY have proclaimed a local emergency or disaster; or

- 2(b). "Emergency or Exigent Circumstances" are situations in which:
 - 2(b)(i). An emergency or disaster has been proclaimed; and
 - 2(b)(ii). A public exigency exists for goods and services required to address an immediate threat to life, public health, or safety, or to eliminate or reduce an immediate threat of significant damage to improved public and private property through cost-effective measures which will not permit competitive solicitations.

§ 3 Delegations of Purchasing Authority in Exigent or Emergency Circumstances

3(a). Immediate Action.

If the AUTHORITY's General Manager determines that goods and services must be procured before the Board of Directors is able to assemble and approve purchases, the AUTHORITY's General Manager has authority, subject to the limitations set forth in subparagraphs 3(a)(i) and 3(a)(ii), to approve the immediate rental or purchase of any equipment, supplies, services or other items necessary to respond to an immediate threat to life, public health, or safety, or to eliminate or reduce an immediate threat of significant damage to improved public and private property through cost-effective measures.

3(a)(i). Limits of Single Purchase Authority.

Under this resolution, the AUTHORITY's General Manager shall have the authority to make individual disaster-related purchases up to \$250,000 on his or her signature alone. The AUTHORITY's General Manager shall have the authority to make disaster-related purchases in excess of \$250,000 up to a maximum of \$500,000 when countersigned by the President of the Board of Directors, hereinafter, "Board President" or in the Board President's absence, when countersigned by another Board member.

3(a)(ii). Limits of Aggregate Purchase Authority.

Under this policy, the AUTHORITY's General Manager shall have the authority to make aggregate disaster-related purchases up to \$500,000 on his or her signature alone. The AUTHORITY's General Manager shall have the authority to make aggregate disaster-related purchases in excess of \$500,000 up to a maximum of \$1,000,000 when countersigned by the Board President or in the Board President's absence, when countersigned by another Board member. It shall be the responsibility of the Procurement Contract Administrator, or their designee to monitor all disaster related purchases made under this resolution. The Procurement Contract Administrator or their designee shall monitor spending to determine if and when countersignatures shall be required.

3(a)(iii). Compliance with Dollar Limits of 2 CFR, Part 200.

The limits of single purchase authority or the limits of aggregate purchase authority, as cited above, notwithstanding, the AUTHORITY shall comply with the procurement dollar limits as defined in 2 CFR, Part 200, i.e., micro purchases up to \$10,000; and small purchases up to \$250,000. Procurements exceeding these limits shall be fully documented with not less than three (3) documented quotations or three (3) sealed bids as required by 2 CFR, Part 200, unless there exists an immediate threat to life, public health, or safety, or to eliminate or reduce an immediate threat of significant damage to improved public and private property through cost-effective measures, and such imminent threats are properly documented by the AUTHORITY. In the event that the AUTHORITY cannot obtain three (3) documented quotes or three (3) sealed bids, the AUTHORITY shall use sole-source or single-source (non-competitive bids) and fully document the conditions that existed to require a sole-source or single-source purchase.

3(b). Sub-delegation to EOC Director.

The EOC Director shall be a designee of the AUTHORITY's General Manager at any time that the AUTHORITY's General Manager is not available to approve purchases as allowed in this section. The Authority's first election of EOC Director shall be the Director of Operations or other Director level employee with other designated employees following thereafter.

3(c). Sub-delegation of Purchasing Authority to Others.

If neither the AUTHORITY's General Manager nor the EOC Director or other Director level employee is available, the AUTHORITY's highest-ranking employee present at the AUTHORITY's facilities shall have authority to rent or purchase from the nearest available source any equipment, supplies, services, or other items necessary for his or her department to respond to an immediate threat to life, public health, or safety, or to eliminate or reduce an immediate threat of significant damage to improved public and private property

through cost-effective measures, up to a maximum of \$100,000 for a single purchase, with aggregate authority up to 200,000.

3(d) *Administrative Procedures:*

Reporting Requirements.

3(d)(1). As soon as possible after purchases are made under this section (3), the AUTHORITY's General Manager, EOC Director, appropriate Director or the department head shall submit to the Purchasing Department a requisition or completed purchase order with thorough documentation that the commodity, goods or services have been ordered on an emergency basis from the vendor designated.

3(d)(2). The Purchasing Department shall inform the AUTHORITY's General Manager and the Board of Directors of any individual purchase under this section with a contract amount greater than \$100,000, and, whenever the aggregate of purchases under this section is greater than \$250,000.

3(d)(3). The Purchasing Department shall obtain the AUTHORITY's General Manager's (or EOC Director as the AUTHORITY Manager's designee) approval prior to any purchase by an AUTHORITY employee if the amount is \$100,000 or more.

3(d)(4). If the AUTHORITY's General Manager or the EOC Director is unavailable, and the delay in getting his/her signature would imperil life, safety or improved property, another Director level employee or the AUTHORITY's highest-ranking employee present at the AUTHORITY's facilities may approve emergency purchases up to \$100,000.

3(d)(5). The AUTHORITY's Purchasing Department shall have the authority to approve all disaster related purchases up to \$50,000.

3(d)(6). The requesting department in consultation with the Finance Department shall expedite the verification of funds available and shall complete the preparation of the purchase order(s) with appropriate documentation.

§ 4 Procurement Procedures in Emergency or Exigent Circumstances

Upon receipt of requisitions and appropriate documentation under Section 3, the AUTHORITY's Purchasing Department or requesting department shall prepare purchase orders for the purchase of emergency equipment, supplies, services or other items in accordance with the requirements of this section.

4(a) *Exempt Purchases.*

The AUTHORITY Purchasing Procedure notwithstanding, single disaster related purchases below \$250,000 shall not be required to be formally bid. Purchases greater than \$10,000 may be made following the procedures specified in this section. The signature(s) of the AUTHORITY's General Manager is required for purchases over \$100,000.

4(b) *Justification of "Sole-Source" or "Single-Source" Procurements.*

Where emergency or exigent circumstances require immediate procurement from the nearest available source:

4(b)(i). The Purchasing Department or the requesting department shall use and complete the AUTHORITY's "Sole-Source or Single-Source Justification Form".

4(b)(ii). Emergency or exigent procurement should be limited to that portion of the work that must be performed immediately, allowing subsequent procurement by competitive procurement of the remainder of the work.

4(b)(iii). "Sole-source or single-source" procurement(s) may be necessary for one of the following reasons: placement of emergency protective measures, procurement of a scarce commodity, goods, or services or acquisition or rental of emergency equipment, emergency consulting services, emergency road clearance or other emergency requirements. This list is not all inclusive.

4(c) Provision for Alternate Bid Solicitation Procedures.

The AUTHORITY's normal requirements for sealed bids shall not apply to acquisitions under Section 3. However, the Purchasing Department or the requesting department shall conduct telephonic or other electronic bid solicitations from potential vendors or suppliers, in lieu of formal written and/or sealed bids, in an effort to obtain multiple competitive quotations or bids when and if time allows in light of the exigent circumstances.

4(d) Locations of Postings for Requests for Proposals or Solicitation of Bids.

The Purchasing Department may waive, in writing, normal requirements for public advertising, publication, or posting of requests for proposals, or solicitation of bids. Notices soliciting bids or requests for proposals shall be posted at the Emergency Operations Center or the Alternate Emergency Operations Center, if the Primary Emergency Operations Center is not being used.

4(e) Length of Time for Posting Requests for Proposals or Solicitation of Bids.

Under this policy the Purchasing Department may shorten the normal bid or quotation solicitation period to twenty-four (24) hours to expedite the award of contracts for emergency equipment, goods, or services. The Purchasing Department should seek to assure that the shortened bid period allows multiple suppliers to submit bids. When the purchase of disaster related goods, services or supplies is of such an extreme nature and clearly addresses an imminent threat to life, public health, or safety, or to eliminate or reduce an immediate threat of significant damage to improved public and private property through cost-effective measures, the Purchasing Department may waive the twenty-four (24) hours posting notice with written documentation to substantiate the critical nature of the specific procurement.

4(f) Number of Bids Required.

Under this disaster purchasing resolution, solicited bids or quotations that are non-responsive shall count towards the minimum number of bids required when there is a declared emergency or disaster in the AUTHORITY. All such "no-bids" must be documented as to time, date and person or company contacted, with a reason for the no-bid, if possible.

§ 5 Notification and Ratification

5(a) Posting of Contract Awards.

Under this section, all contracts awarded, that exceed \$250,000 shall be presented to the Board of Directors for ratification and thereafter, shall be publicly posted within sixty (60) days of the award. Public posting shall be done at the entrance to the Emergency Operations Center (EOC, if the EOC is operational. If the EOC is no longer active, the public posting shall be at the AUTHORITY's main office, as described in the AUTHORITY's standard purchasing procedure, and/or on the AUTHORITY's website, and/or on Planetbids, the AUTHORITY's e-Procurement system.

5(b) Authority to Cancel Emergency Procurements.

As a provision of this resolution, the AUTHORITY has the absolute authority to rescind a contract for non-performance within twenty-four (24) hours when a contractor or vendor, once awarded a contract, is unable to perform under the terms of the contract and the resulting delay or non-performance presents an immediate threat to life, public health, or safety, or to eliminate or reduce an immediate threat of significant damage to improved public and private property through cost-effective measures.

5(c) Notification Requirement for Emergency Purchases.

For any purchase in excess of \$250,000, the AUTHORITY's General Manager shall report all such purchases to the Board of Directors within sixty (60) days of the proclamation of the disaster.

5(d) Requirement for Separate Invoicing.

All purchases or rentals made during proclaimed emergency or disaster conditions shall require separate invoicing from routine (non-disaster related) purchases. All invoices shall state, in detail, the goods, services or equipment provided and shall specify where the goods or services were delivered. All invoices shall specify the locations where the goods or services were used if at all possible. Invoices which combine both normal and emergency or disaster related procurements shall be returned to the vendor for re-issue of an original invoice(s) as required by this section.

5(e) Auditing of Invoices for Debris Clearance Prior to Payment.

All invoices for debris clearance and removal shall be audited by the AUTHORITY prior to payment to the vendor. Vendors shall be notified of this requirement prior to the awarding of any contract for debris clearance and/or removal. Audits shall be in accordance with procedures for debris removal monitoring specified in FEMA's Publication 325, Debris Management Guide, and FEMA's Publication 327, Public Assistance Debris Monitoring Guide. Such audits shall follow the General Accounting Office's "Yellow Book," i.e., the Generally Accepted Government Auditing Standards.

5(f) Auditing of Invoices for "Time and Materials" Contracts Prior to Payment.

All invoices for "Time and Materials" or "Time and Equipment" contracts shall be audited by the AUTHORITY prior to payment to the vendor. Vendors shall be notified of this requirement prior to the awarding of any contract for "Time and Materials" or "Time and Equipment" contracts.

5(f)(i). All Time and Materials contracts listing equipment shall include the FEMA Equipment Rate Sheet 4-digit codes as reference for each individual piece of equipment billed under the contract. All equipment invoiced shall have the

equipment operator identified by name for each piece of equipment used. Thorough and complete documentation is responsibility of the contractor(s).

5(f)(ii). All "Time and Materials" or "Time and Equipment" contracts shall include a "Not-to-exceed" amount, which the contractor shall exceed at their own risk.

5(f)(iii). No AUTHORITY employee shall be authorized to grant contract extensions beyond the stated "Not-to-exceed" dollar amount as stated in this resolution. Any such contract extensions beyond the "Not-to-exceed" dollar amount shall not be considered valid by the AUTHORITY, and any work done by the contractor is done at the sole responsibility of the contractor.

5(f)(iv). Any AUTHORITY employee that authorizes any additional work beyond the stated "Scope of Work," or the "not-to-exceed" contract amount authorized in the contract or purchase order does so at their personal fiduciary risk.

5(f)(v). All invoices for "Time and Materials or "Time and Equipment" contract work shall be properly grouped according to FEMA damage categories (A through G) as specified in the contract(s).

5(f)(vi). All time and materials contracts shall be subject to ongoing monitoring by either Agency personnel and/or an independent third-party monitoring firm.

5(f)(vii). The contractor shall not perform any work not expressly included in the written scope of work. Any such work done by the prime contractor or a sub-contractor which is not in the approved contract scope of work is done at the contractor's own risk. Any work done by a contractor which is not included in the FEMA approved "Scope of Work" shall not be paid for, even when properly invoiced.

5(g) Compliance with Specified Billing Format.

All invoices must conform to the billing methodology specified in the contract or purchase order. Failure to properly invoice shall result in non-payment of invoices.

5(h) Limitations of Disaster Purchasing Resolution.

For the purposes of this section, an emergency, disaster, or exigent condition shall be deemed to exist when a condition exists that presents an immediate threat to life, public health, or safety, or is necessary to eliminate or reduce an immediate threat of significant damage to improved public and private property through cost-effective measures and a local emergency or disaster has been proclaimed. Any purchases that do not meet the standard of being necessary for responding to an immediate threat to life, public health, or safety, or to eliminate or reduce an immediate threat of significant damage to improved public and private property through cost-effective measures shall follow the AUTHORITY's purchasing procedure and its provisions.

5(i) Inclusion of the eleven required contract clauses as specified in Appendix II to Part 200 - Contract

Provisions for Non-Federal Entity Contracts Under Federal Awards. When time permits under emergency, disaster, or exigent circumstances, the AUTHORITY shall make every

reasonable effort to comply with and include the eleven required contract clauses as specified in 2 CFR, Part 200, Appendix II.

5(j) Compliance with 2 CFR, §200.321, Contracting with small and minority businesses, women's business enterprises, and labor surplus area firms.

When time permits under an emergency, disaster, or exigent circumstances, the AUTHORITY shall make every reasonable effort to comply with 2 CFR, §200.321 when such compliance does not present or exacerbate an imminent threat to life safety, public health or improved property.

5(k) Compliance with § 200.323 Contract cost and price.

The AUTHORITY shall perform a cost or price analysis in connection with every procurement action in excess of the Simplified Acquisition Threshold including contract modifications. The amount of the "Simplified Acquisition Threshold" is established by reference to 2 CFR, Part 200, currently set at \$250,000.

5(l) Federal Procurement Conflicts.

Notwithstanding the terms of this Policy, nothing contained herein shall conflict with Federal procurement regulations as currently defined in 2 CFR, Part 200.

Agenda Item

5f

Board of Directors Meeting

Meeting Date: February 6, 2019

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

Environmental Compliance Department Update

Environmental Laboratory Accreditation Program (ELAP) Meeting

On January 17, 2020, SOCWA staff met with State Water Board Members Tam Dudoc and Sean Maguire at the request of Board Member Dudoc at the December 18, 2019 public comment period hearing. Also present, were other members of the Environmental Laboratory Technical Advisory Committee's (ELTAC) subcommittee on California Laboratory Quality Management Standards. The meeting also included ELAP staff members, the assistant Deputy Director of the Drinking Water Program, the Deputy Director of the Drinking Water Program, and counsel for the State Water Resources Control Board and SCAP.

The agenda of the meeting included a discussion regarding the following: the California Quality Management System (CA QMS) critical elements and how those critical elements compared to the proposed Nelac Institute (TNI) standard could insure data quality. The CA QMS contains 152 additional management elements in the proposed version of the super-majority approval of the Title 22 regulations, compared to the 480 additional requirements that the TNI standard contains in the latest draft regulations that ELAP has released to the Office of Administrative Law.

The additional TNI management requirements are duplicative within the Title 22 regulation and are frequently already present within the technical methods in use by accredited California labs. Technical methods contain both quality assurance and quality control requirements with many pages of technical standards to guarantee the results reported. The number of management and technical records that ELAP can accredit to is the question that is being evaluated.

SOCWA staff provided evidence that TNI accredited laboratories are not keeping up with the required level of management and technical records documentation in support of the comment that the necessity requirement under the rules of the Office of Administrative Law (within the Administrative Procedures Act) cannot be met.

There were no actionable results that came from this meeting although SOCWA staff requested that a pause in the regulation adoption schedule is justifiable given the scientific evidence provided in contrast to the current regulations that have been released. Staff will provide a follow-up letter to the meeting participants outlining the presentation materials and the request that the State Water Board pause this action until a feasible, cost-efficient alternative can be accepted as

the state system under the Environmental Laboratory Accreditation Act which allows for both a state system and the TNI standard.

El Toro Water District Laboratory Services

On January 30, 2020, El Toro Water District staff indicated that they have received their accreditation certificate from the California Environmental Laboratory Accreditation Program (ELAP). SOCWA will work with the staff from ETWD to transition analysis back to ETWD. SOCWA staff will analyze the separate line items dedicated to the project during the FY 20-21 Use Audit.

Operations & Maintenance Department

RTP Journey School Tour

RTP staff gave a tour to Journey School in Aliso Viejo in January. This included two (2) tours of 30 students from 5th grade. This quote was texted to RTP's Chief Operator Jason Protopappas, "You guys were awesome. Loved the enthusiasm and warm reception, so much information."

Below is a picture of the one of the groups learning about how water is recycled using sand filters.



Inflow and Infiltration (I&I) Update

SOCWA and MNWD staff met in January to discuss ongoing efforts to identify Infiltration and Intrusion (I&I) impacting RTP during storm events. The MNWD staff provided an update within the scope of the response to the San Diego Regional Water Quality Control Board sent on May 8, 2019. The MNWD staff provided updates for the ongoing I & I study to identify wastewater sub-basins experiencing higher peaking flows by selectively deploying 24 flow meters throughout the sewershed. MNWD Staff also provided updates regarding the modification of manhole assessment procedures and inspection forms, an update to the visual inspections of the collection system, manhole contribution to inflow, and the data collection related to pool systems with applicable City representatives. SOCWA staff provided updates related to conversations with the County related to the sediment loading from the hillside behind the facility, manganese monitoring, and the initial results related to a study of compliance with the Industrial General Permit and capturing of additional stormwater flows on site. This information was very helpful for SOCWA staff to get a better understanding on I&I efforts. MNWD staff will continue to share information as their project progresses. SOCWA staff will continue to update MNWD staff on our efforts and Plant flows.