

I hereby certify that the following Agenda was posted at least 24 hours prior to the time of the Board Meeting, so noticed below at the usual agenda posting location of the South Orange County Wastewater Authority (SOCWA) and at [www.socwa.com](http://www.socwa.com).



Danita Hirsh, Assistant Secretary  
SOCWA and the Board of Directors thereof

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

January 11, 2024  
8:30 a.m.

PHYSICAL MEETING LOCATION:  
South Orange County Wastewater Authority  
34156 Del Obispo Street  
Dana Point, CA 92629

THE BOARD OF DIRECTORS MEETING ROOM IS WHEELCHAIR ACCESSIBLE. IF YOU REQUIRE ANY SPECIAL DISABILITY RELATED ACCOMMODATIONS, PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SECRETARY'S OFFICE AT (949) 234-5452 AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO THE SCHEDULED MEETING TO REQUEST SUCH ACCOMMODATIONS. THIS AGENDA CAN BE OBTAINED IN ALTERNATE FORMAT UPON REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S SECRETARY AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO THE SCHEDULED MEETING. MEMBERS OF THE PUBLIC HAVE THE OPTION TO PARTICIPATE IN AND MAY JOIN THE MEETING REMOTELY VIA VIDEO CONFERENCE FOR VISUAL INFORMATION ONLY (USE ZOOM LINK BELOW) AND BY TELECONFERENCE FOR AUDIO PARTICIPATION (USE PHONE NUMBERS BELOW). THIS IS A PHONE-CALL MEETING AND NOT A WEB-CAST MEETING, SO PLEASE REFER TO AGENDA MATERIALS AS POSTED ON THE WEBSITE AT [WWW.SOCWA.COM](http://WWW.SOCWA.COM). ON YOUR REQUEST, EVERY EFFORT WILL BE MADE TO ACCOMMODATE PARTICIPATION. FOR PARTIES PARTICIPATING REMOTELY, PUBLIC COMMENTS WILL BE TAKEN DURING THE MEETING FOR ORAL COMMUNICATION IN ADDITION TO PUBLIC COMMENTS RECEIVED BY PARTIES PARTICIPATING IN PERSON. COMMENTS MAY BE SUBMITTED PRIOR TO THE MEETING VIA EMAIL TO ASSISTANT SECRETARY DANITA HIRSH AT [DHIRSH@SOCWA.COM](mailto:DHIRSH@SOCWA.COM) WITH THE SUBJECT LINE "REQUEST TO PROVIDE PUBLIC COMMENT." IN THE EMAIL, PLEASE INCLUDE YOUR NAME, THE ITEM YOU WISH TO SPEAK ABOUT, AND THE TELEPHONE NUMBER YOU WILL BE CALLING FROM SO THAT THE COORDINATOR CAN UN-MUTE YOUR LINE WHEN YOU ARE CALLED UPON TO SPEAK. THOSE MAKING PUBLIC COMMENT REQUESTS REMOTELY VIA TELEPHONE IN REAL-TIME WILL BE ASKED TO PROVIDE YOUR NAME, THE ITEM YOU WISH TO SPEAK ABOUT, AND THE TELEPHONE NUMBER THAT YOU ARE CALLING FROM SO THE COORDINATOR CAN UNMUTE YOUR LINE WHEN YOU ARE CALLED UPON TO SPEAK. ONCE THE MEETING HAS COMMENCED, THE CHAIR WILL INVITE YOU TO SPEAK AND ASK THE COORDINATOR TO UNMUTE YOUR LINE AT THE APPROPRIATE TIME.

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 FOR DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE BOARD OF DIRECTORS ARE AVAILABLE FOR PUBLIC INSPECTION IN THE AUTHORITY ADMINISTRATIVE OFFICE LOCATED AT 34156 DEL OBISPO STREET, DANA POINT, CA ("AUTHORITY OFFICE") OR BY PHONE REQUEST MADE TO THE AUTHORITY OFFICE AT 949-234-5452. IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE BOARD OF DIRECTORS LESS THAN TWENTY-FOUR (24) HOURS PRIOR TO THE MEETING, THEY WILL BE AVAILABLE IN THE RECEPTION AREA OF THE AUTHORITY OFFICE AT THE SAME TIME AS THEY ARE DISTRIBUTED TO THE BOARD OF DIRECTORS AND SENT TO ANY REMOTE PARTICIPANTS REQUESTING EMAIL DELIVERY OR POSTED ON SOCWA'S WEBSITE. IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IN THE MEETING ROOM OR IMMEDIATELY UPON VERBAL REQUEST TO BE DELIVERED VIA EMAIL TO REQUESTING PARTIES PARTICIPATING REMOTELY.

**THE PUBLIC MAY PARTICIPATE REMOTELY BY VIRTUAL MEANS. FOR AUDIO OF MEETING USE THE CALL IN PHONE NUMBERS BELOW AND FOR VIDEO USE THE ZOOM LINK BELOW.**

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Agenda

1. CALL 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. APPROVAL OF BOARD MEMBER REQUEST FOR REMOTE PARTICIPATION

ACTION Board Discussion/Direction and Action.

PAGE NO

5. CONSENT CALENDAR

- A. Minutes of Board of Directors ..... 1

- Board of Directors Special Meeting of December 7, 2023

ACTION The Board will be requested to approve the subject Minutes.

- B. Minutes of PC 2 Committee ..... 6

- PC 2 Committee Meeting of December 7, 2023

ACTION The PC 2 Committee will be requested to approve the subject Minutes and the Board will be requested to receive and file the Minutes.

- C. Minutes of Finance Committee ..... 8

1. Finance Committee Meeting of February 21, 2023
2. Finance Committee Meeting of March 21, 2023

ACTION The Board will be requested to receive and file the Minutes.

- D. Operations Report (November)..... 13

1. Monthly Operational Report
2. SOCWA Ocean Outfall Discharges by Agency
3. Quarterly Report on Key Operational Expenses
4. Beach Ocean Monitoring Report
5. Recycled Water Report
6. Pretreatment Report (December/January)

ACTION The Board will be requested to receive and file subject reports as submitted.

Agenda

E. Capital Improvement Program Status Report (December)..... 53

ACTION Information item.

F. Capital Improvement Construction Projects Progress Report (November)  
[Project Committees 2, 15, & 24] ..... 56

ACTION Information Item.

6. ENGINEERING MATTERS

A. Contract Award for MCC-M, Switchgear Circuit Breaker, and Portable Generator  
Connection Pre-Procurement [Project Committee 2] ..... 66

ACTION Staff recommends that the PC 2 Board of Directors approve the contract to Pacific Parts & Controls for a total of \$267,420, including a 20% contingency for the JBL MCC-M, switchgear circuit breaker, and portable generator connection pre-procurement.

B. J.B. Latham Treatment Plant (JBL) Effluent Pump Station and Energy Building Design  
[Project Committee 2] ..... 87

ACTION Staff recommends that the PC 2 Board of Directors approve the contract to Carollo Engineers for a total of \$175,516 for the JBL Effluent Pump Station and Energy Building improvements.

7. GENERAL MANAGER’S REPORT

A. Letter of Support for the County of Orange’s Application for Grant Funds from the  
Wildlife Conservation Board (WCB) for the Aliso Creek Watershed Habitat  
Connectivity Improvement Project: Phase I and II ..... 93

ACTION Staff recommends that the Board of Directors authorize the Acting General Manager to submit a letter of support on behalf of SOCWA supporting the County of Orange’s application for grant funds from the Wildlife Conservation Board (WCB) for the Aliso Creek Watershed Habitat Connectivity Improvement Project: Phases I and II.

B. Resolution No. 2024-01: A Resolution of the Board of Directors of the South Orange  
County Wastewater Authority Amending “Exhibit A” Bylaws and Establishing New  
Quorum Requirements for the SOCWA Engineering Committee ..... 97

ACTION Staff recommends that the Board of Directors approve Resolution No. 2024-01, A Resolution of the Board of Directors of the South Orange County Wastewater Authority Amending “Exhibit A” Bylaws and Establishing New Quorum Requirements for the SOCWA Engineering Committee and revising the Engineering Committee membership from ten (10) to seven (7) and the meeting quorum requirements from five (5) members to four (4).

South Orange County Wastewater Authority  
Board of Directors Meeting  
January 11, 2024

Agenda

C. Discussion on the SCWD/SMWD Proposal Framework.....

- PC 15 Update carryover from October 24 Board Meeting
- PC 17 Discussion of ownership and operation transfer
- SMWD/SCWD Update [PC 2]

ACTION Board Discussion/Direction and Action.

D. General Counsel's Update.....

- JPA Revision Process (Standing item)

ACTION Information Item

E. Acting General Manager's Report..... 102

ACTION Board Discussion/Direction and Action.

F. Upcoming Meetings Schedule: .....

- January 11, 2024 – Board of Directors Special Meeting
- January 18, 2024 – Engineering Committee Meeting
- January 16, 2024 – Finance Committee Meeting
- February 1, 2024 – Board of Directors Regular Meeting

ACTION Information Item.

8. OTHER MATTERS

Determine the need to take action on the following item(s) introduced by the Acting General Manager/Director of Operations, which arose after the posted agenda. [Adoption of this action requires a two-thirds vote of the Board, or if less than two-thirds are present a unanimous vote.]

ADJOURNMENT

THE NEXT SOCWA BOARD MEETING  
FEBRUARY 1, 2024

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

**Board of Directors**

**December 7, 2023**

**DRAFT**

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors Meeting was held in-person and via teleconference on December 7, 2023, 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:

MIKE DUNBAR	Emerald Bay Service District	Director
MIKE GASKINS	El Toro Water District	Alternate Director
BOB WHALEN	City of Laguna Beach	Director
FRANK URY	Santa Margarita Water District	Director
MATT COLLINGS	Moulton Niguel Water District	Director
SCOTT GOLDMAN	South Coast Water District	Director
DAVE REBENS DORF	City of San Clemente	Director

Staff Present:

JIM BURROR	Acting General Manager/Director of Operations
AMBER BAYLOR	Director of Environmental Compliance
DINA ASH	HR Administrator
KONSTANTIN SHILKOV	Senior Accountant
JACK BECK	Staff Accountant
ANNA SUTHERLAND	Accounts Payable
JEANETTE COTINOLA	Procurement/Contracts Manager
MATT CLARK	IT Administrator
DANITA HIRSH	Executive Assistant

Also Present:

ADRIANA OCHOA	Procopio Law	BILL MOORHEAD	Moulton Niguel Water District
RICK SHINTAKU	Varner & Brandt, LLP	SOPHIA KUO	The Pun Group
DENNIS CAFFERTY	El Toro Water District	DAVE LARSEN	Moulton Niguel Water District
ROGER BUTOW	Clean Water Now (CWN)	DON FROELICH	Moulton Niguel Water District
ROD WOODS	Moulton Niguel Water District	DIANE RIFKIN	Moulton Niguel Water District
SAUNDRA JACOBS	Santa Margarita Water District	MARK McAVOY	City of Laguna Beach
LISA OHLUND	Ohlund Mgmt. & Tech. Svc	DUANE CAVE	Moulton Niguel Water District
DICK FIORE	Moulton Niguel Water District	KARI VOZENILEK	Kidman Gagen Law, LLP
SHERRY WANNANIGER	Moulton Niguel Water District	JEFF FERRE	Best & Best Krieger LLP
MARC SERNA	South Coast Water District		

1. CALL TO ORDER

Chairman Collings called the meeting to order at 8:30 a.m.

2. PLEDGE OF ALLEGIANCE – Director Mike Gaskins

3. ORAL COMMUNICATIONS

4. APPROVAL OF BOARD MEMBER REQUEST FOR REMOTE PARTICIPATION

No action was taken.

5. CONSENT CALENDAR

Director Collings pulled agenda items 5.G. and 5.L. for clarification.

ACTION TAKEN

A motion was made by Director Whalen and seconded by Director Dunbar to approve the remaining Consent Calendar agenda 5A through 5F, 5H through 5K, and 5M.

Motion carried:     Aye 7, Nay 0, Abstained 0, Absent 0  
Director Dunbar             Aye  
Director Gaskins            Aye  
Director Collings            Aye  
Director Whalen             Aye  
Director Ury                 Aye  
Director Goldman            Aye  
Director Rebensdorf         Aye

(5A thru 5F, 5H thru 5K, and 5M)

- A.    1. Minutes of Board of Directors Meeting for October 24, 2023  
      2. Minutes of Board of Directors Meeting for November 2, 2023
- B.    1. Minutes of Engineering Committee Meeting for September 14, 2023  
      2. Minutes of Engineering Committee Meeting for October 12, 2023
- C.    Minutes of Finance Committee Meeting for September 19, 2023
- D.    Financial Reports for the Month of August and September 2023  
      **Approved Action:** The Board of Directors (i) receive and file the August and September 2023 Financial Reports, (ii) ratify the August 2023 disbursement for the period from August 1, 2023, through August 31, 2023, totaling \$2,550,498, and (iii) ratify the September 2023 disbursement for the period from September 1, 2023, through September 30, 2023, totaling \$2,109,054.
- E.    Final Use Audit FY 2022-23 Budget vs. Actual  
      **Approved Action:** The Board of Directors approved the FY 2022-23 Use Audit.
- F.    Annual Comprehensive Financial Report (ACFR) for Fiscal Years ended June 30, 2023, and 2022  
      **Approved Action:** The Board of Directors receives and files the Annual Comprehensive Financial Report (ACFR), including the Independent Auditors Report for Fiscal Years ended June 30, 2023, and 2022.
- H.    Operations Report (October)  
      **Approved Action:** Information Item; receive and file.
- J.    Chlor-alkali Products Sodium Hypochlorite (Bleach) 6-month Contract Extension [Project Committees 2, 15, and 17]  
      **Approved Action:** The Board of Directors authorized the Acting General Manager to execute the second of three (3) 6-month renewals with Olin at the current pricing that was effective July 1, 2023.
- K.    Hach Annual NITRATAX Plus Probe Service Contract \$13,770.00 [Project Committees 2, 15, and 17]  
      **Approved Action:** The Board of Directors authorized the Acting General Manager purchasing authority to execute a sole source contract with Hach for a 1-year service contract to service the ten (10) NITRATAX Plus Probes for an amount not to exceed \$13,770.00.
- M.    Contract Extension Award to Athens Services for Grit Hauling and Disposal Services [Project Committees 2, 15, and 17]  
      **Approved Action:** The Board of Directors awarded a 1-year contract extension to Athens Services for Grit Hauling and Disposal Services at the following rates, plus taxes and surcharges for single bin deliveries that are determined when services are rendered.

**ACTION TAKEN**

A motion was made by Director Collings and seconded by Director Dunbar to approve the Consent Calendar agenda items 5G and 5L.

Motion carried:     Aye 7, Nay 0, Abstained 0, Absent 0  
Director Dunbar         Aye  
Director Gaskins        Aye  
Director Collings       Aye  
Director Whalen         Aye  
Director Ury             Aye  
Director Goldman        Aye  
Director Rebensdorf     Aye

- G.     Fiscal Year 2022-23 Updated Supplemental Financial Statements  
       **Approved Action:** The Board of Directors received and filed the Supplemental Financial Statements for the Fiscal Year ended June 30, 2023.
- L.     Small Capital RTP Interstage Pump Overhaul for \$53,229.42  
       [Project Committee 17]  
       **Approved Action:** The Board of Directors authorized the Acting General Manager to execute a contract with Vaughan's Industrial Repair Co. to overhaul interstage Pump #1 at the cost of \$53,229.42, plus tax, fees, and freight that is determined at the time the units are shipped.

**6. ENGINEERING MATTERS**

- A.     Contract Award for Coastal Treatment Plant (CTP) Personnel Building Reconstruction Engineering Services During Construction Project [Project Committee 15]

**ACTION TAKEN**

A motion was made by Goldman and seconded by Director Whalen to approve the contract to ProjectLine for a total of \$31,150 for the Engineering Services During the Construction of the CTP Personnel Building Reconstruction Project.

Motion carried:     Aye 3, Nay 0, Abstained 1, Absent 0  
Director Dunbar         Aye  
Director Collings       Abstain  
Director Whalen         Aye  
Director Goldman        Aye

Project [Project Committee 2]

**ACTION TAKEN**

A motion was made by Director Ury and seconded by Director Goldman to award the contract to SS Mechanical in the amount of \$148,455 for the JBL Centrate Line Upgrades Project with a contingency of \$14,850.

Motion failed:     Aye 3, Nay 0, Abstained 0, Absent 0  
Director Dunbar         Aye  
Director Collings       Aye  
Director Goldman        Aye

7. GENERAL MANAGER'S REPORT

A. SJCOO Tentative Order r9-2024-0005 Comment Letter

ACTION TAKEN

A motion was made by Director Goldman and seconded by Director Rebensdorf to approve submitting the letter of support of the SJCOO Tentative Order R9-2024-0005. [Project Committee 5]

Motion carried: Aye 4, Nay 0, Abstained 0, Absent 0  
Director Collings Aye  
Director Ury Aye  
Director Goldman Aye  
Director Rebensdorf Aye

B. Amendment No. 5 – Acquisition for Use, Operation, Maintenance, and Expansion of Sewage Treatment Plant of City of San Juan Capistrano by South East Regional Reclamation Authority For and On Behalf of Project Committee No. 2 [Project Committee No. 2]

ACTION TAKEN

A motion was made by Director Ury and seconded by Director Golman to approve Amendment No. 5 – Acquisition for Use, Operation, Maintenance, and Expansion of Sewage Treatment Plant of City of San Juan Capistrano by South East Regional Reclamation Authority For and On Behalf of Project Committee No. 2. With an expiration date of June 30, 2024, subject to approval by the PC 2 Member Agencies'.

Motion carried: Aye 3, Nay 0, Abstained 0, Absent 0  
Director Collings Aye  
Director Ury Aye  
Director Goldman Aye

C. Approval of the Q3 through Q4 Project Committee 2 (PC2) Operations and Maintenance Budget and Capital Expenditures Budget [Project Committee 2]

ACTION TAKEN

A motion was made by Director Ury and seconded by Director Goldman to approve the Q3 through Q4 Project Committee 2 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL, and OPEB) as proposed and PC 2 Capital Expenditures Budget (inclusive of large capital, non-capital/misc. engineering, and small capital).

Motion carried: Aye 3, Nay 0, Abstained 0, Absent 0  
Director Collings Aye  
Director Ury Aye  
Director Goldman Aye

C. Discussion on the SCWD/SMWD Proposal Framework

- PC 15 Update carryover from October 24 Board Meeting
- PC 17 Discussion of ownership and operation transfer
- SMWD/SCWD Update [PC 2]



There was an open discussion on holding more meetings in the coming year to further the discussions and make progress on determining the Board's direction for the future of SOCWA.

This was an information item; no action was taken.

D. General Counsel's Updates

Ms. Adriana Ochoa, General Counsel, stated that there were no updates to report.

This was an information item; no action was taken.

E. Acting General Manager's Report

Mr. Burror stated he had no updates to report and noted the 2024 Calendar was in the packet on page 145. He wished everyone a Merry Christmas and Happy Holidays.

Director Goldman requested the Board meeting on December 5, 2024, to be moved to December 12 due to a conflict with the ACWA Fall Conference dates.

This was an information item; no action was taken.

F. Upcoming Meetings Schedule:

Director Collings stated the December 19 Finance Committee meeting is canceled.

- December 7, 2023 – Board of Directors Regular Meeting
- December 14, 2023 – Engineering Committee Meeting
- December 19, 2023 – Finance Committee Meeting (*Canceled*)
- January 4, 2024 – Board of Directors Regular Meeting

This was an information item; no action was taken.

9. OTHER MATTERS

None.

ADJOURNMENT

There being no further business, Director Collings adjourned the meeting at 9:12 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 December 7, 2023, and approved by the Board of Directors of the South Orange County Wastewater Authority.

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Danita Hirsh, Assistant Secretary  
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

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

**Project Committee No. 2  
Meeting**

**DRAFT**

**December 7, 2023  
9:30 a.m.**

**(or immediately following the Board of Directors Meeting)**

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Project Committee 2 was held on December 7, 2023, at 9:20 a.m. in person and via teleconference at 34156 Del Obispo Street, Dana Point, California. The following members of Project Committee No. 2 were present:

MATT COLLINGS	Moulton Niguel Water District	Director
SCOTT GOLDMAN	South Coast Water District	Director
FRANK URY	Santa Margarita Water District	Director

**Staff Participation:**

JIM BURROR	Director of Operations
RONI YOUNG GRANT	Associate Engineer
MATT CLARKE	IT Administrator
DANITA HIRSH	Executive Assistant

**Also Participating:**

ADRIANA OCHOA	Procopio Law
RICK SHINTAKU	South Coast Water District
MARC SERNA	South Coast Water District
DAVE LARSEN	Moulton Niguel Water District
DON BUNTS	Santa Margarita Water District
DICK FIORE	Moulton Niguel Water District
KARI VOZENIEK	Kidman, Gagen Law, LLC

**1. Call Meeting to Order**

Chairman Collings called the meeting to order at 9:20 a.m., immediately following the Regular Board Meeting.

**2. Public Comments**

None.

**3. Closed Session**

The PC 2 Committee Members convened to Closed Session at 9:21 a.m.

A. Closed Session Conference with Legal Counsel – Anticipated Litigation (Gov. Code 54956.9(d)(2)) – One potential matter

**4. Open Session**

The PC 2 Committee Members reconvened to Open Session at 10:40 a.m.

A. Report out of Closed Session

There were no reportable actions.

B. Capital Improvement Construction Projects Progress and Change Orders to Olsson Construction [Project Committee No. 2]

ACTION TAKEN

A motion was made by Director Collings and seconded by Director Goldman to approve Change Orders 73 through 80 for \$482,878.33 to Olsson Construction for the JBL Package B project and ii) authorize the Acting General Manager to release retention funds to Olsson Construction for the JBL Package B Project of up to \$931,343.41, withholding funds for estimated liquidated damages, estimated legal fees, and pending change orders.

Motion carried:	Aye 3, Nay 0, Abstained 0, Absent 0
	Director Collings           Aye
	Director Ury                 Aye
	Director Goldman         Aye

Adjournment

There being no further business, Chairman Collings adjourned the meeting at 10:41 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Project Committee No. 2 of December 7, 2023, and approved by the Project Committee No. 2, and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

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Danita Hirsh, Assistant Secretary  
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

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

**Finance Committee**

**February 21, 2023**

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee Meeting was held on February 21, 2023, at 10:30 a.m. via teleconference from the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Finance Committee were present via Zoom Meeting:

DENNIS CAFFERTY	El Toro Water District	Alternate Director
ERICA CASTILLO	Santa Margarita Water District	Alternate Director
MATT COLLINGS	Moulton Niguel Water District	Director [exited @ 11:53 a.m.]
PAM ARENDS-KING	South Coast Water District	Alternate Director

Absent:

GEORGE WEISE	City of Laguna Beach	Director
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Staff Participation:

JIM BURROR	Acting General Manager
MARY CAREY	Finance Controller
DAVID BARANOWSKI	Director of Engineering
KONSTANTIN SHILKOV	Senior Accountant
NAYDN KIM	Accountant
ANNA SUTHERLAND	Accounts Payable
DINA ASH	HR Administrator
MATT CLARKE	IT Administrator
RONI YOUNG-GRANT	Associate Engineer
DANITA HIRSH	Executive Assistant

Also Participating:

ADRIANA OCHOA	Procopio Law
MARY BETH REDDING	Foster & Foster
SANDY DEKALB	Nyhart
FERNANDO PALUDI	Trabuco Canyon Water District
MICHAEL PEREA	Trabuco Canyon Water District
KATHRYN FRESHLEY	El Toro Water District
SHERRY WANNINGER	Moulton Niguel Water District
SAUNDRA JACOBS	Santa Margarita Water District
MARC SERNA	South Coast1 Water District

1. Call Meeting to Order

Director Collings called the meeting to order at 10:31 a.m. He requested a volunteer from the Finance Committee Members to Chair the Finance Committee meetings due to Mr. Dan Ferons of Santa Margarita Water District stepping down as a SOCWA Board Member.

ACTION TAKEN

Motion was made by Director Arends-King and seconded by Director Cafferty to appoint newly incoming Finance Committee member Ms. Erica Castillo as Chair of the Finance Committee.

Motion carried:      Aye 4, Nay 0, Abstained 0, Absent 1  
Director Castillo      Aye  
Director Weiss      Absent  
Director Cafferty      Aye  
Director Collings      Aye  
Director Arends-King      Aye

2. Public Comments

None.

3. Approval of Minutes

- Finance Committee Meeting of December 20, 2022

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Cafferty to approve subject Minutes as submitted.

Motion carried:      Aye 4, Nay 0, Abstained 0, Absent 1  
Director Castillo      Aye  
Director Weiss      Absent  
Director Cafferty      Aye  
Director Collings      Aye  
Director Arends-King      Aye

4. Financial Reports for the Month of December 2022

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Cafferty to recommend that the Board of Directors ratify the December 2022 disbursements for the period from December 1, 2022, through December 31, 2022, totaling \$4,037,903, and to receive and file the December 2022 Financial Reports as submitted.

Motion carried:      Aye 4, Nay 0, Abstained 0, Absent 1  
Director Castillo      Aye  
Director Weiss      Absent  
Director Cafferty      Aye  
Director Collings      Aye  
Director Arends-King      Aye

5. Q2 FY 2022-23 Cash Roll Forward as of December 31, 2022

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Castillo to recommend that the Board of Directors receive and file the Q2 Fiscal Year 2022-23 Cash Roll Forward as submitted.

Motion carried:	Aye 4, Nay 0, Abstained 0, Absent 1
	Director Castillo Aye
	Director Weiss Absent
	Director Cafferty Aye
	Director Collings Aye
	Director Arends-King Aye

6. CalPERS Pension Plan and OPDB (Retiree Health) Unfunded Termination Liability Calculations & Future Cost of Contract Services

Ms. Mary Carey, Finance Controller, introduced Actuary speakers Marybeth Redding of Foster and Foster and Sandy Dekalb of Nyhart. She stated that Ms. Redding would be giving the presentation on the Pension Termination Liability, and Ms. Dekalb would present the OPEB liability. An open discussion ensued.

This was an information item; no action was taken.

7. FY 2023-24 Budget Assumptions

Ms. Carey presented the SOCWA budget baseline assumptions and Fiscal Year 2023/2024 schedule. An open discussion ensued.

This was an information item; no action was taken.

8. Update on FY 2022-23 Capital Budget

Mr. David Baranowski, Director of Engineering, presented an overview of the remainder of the budget year for Fiscal Year 2022/2023. An open discussion ensued.

This was an information item; no action was taken.

Adjournment

There being no further business, Chairperson Castillo adjourned the meeting at 12:16 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Finance Committee of February 21, 2023, and approved by the Finance Committee and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

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Danita Hirsh / Assistant Board Secretary  
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

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

**March 21, 2023**

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee Meeting was held on March 21, 2023, at 10:30 a.m. in-person and via teleconference from the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Finance Committee were present via Zoom Meeting:

DENNIS CAFFERTY	El Toro Water District	Alternate Director
ERICA CASTILLO	Santa Margarita Water District	Alternate Director
MATT COLLINGS	Moulton Niguel Water District	Director

Absent:

BOB WHALEN	City of Laguna Beach	Director
PAM ARENDS-KING	South Coast Water District	Director

Staff Participation:

JIM BURROR	Acting General Manager
MARY CAREY	Finance Controller
DAVID BARANOWSKI	Director of Engineering
KONSTANTIN SHILKOV	Senior Accountant
ANNA SUTHERLAND	Accounts Payable
DINA ASH	HR Administrator
MATT CLARKE	IT Administrator
RONI YOUNG-GRANT	Associate Engineer
DANITA HIRSH	Executive Assistant

Also Participating:

ADRIANA OCHOA	Procopio Law
FERNANDO PALUDI	Trabuco Canyon Water District
MICHAEL PEREA	Trabuco Canyon Water District
KATHRYN FRESHLEY	El Toro Water District
SHERRY WANNINGER	Moulton Niguel Water District
JENNIFER LOPEZ	South Coast Water District
OSMAN MUFTI	Sloan Sakai Yeung & Wong, LLP

1. Call Meeting to Order

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

2. Public Comments

None.

3. FY 2023-24 Workshop Total Budget and Response to Questions and Comments from February 21, 2023 Meeting

Ms. Mary Carey, Finance Controller, presented the proposed Total Budget for:

- Fiscal Year 2023-2024
  - Draft FY 2023-24 Comparative Total Budget by Member Agency (SOCWA Total Cost Base/ All Costs)
  - SOCWA Budget Year-Over-Year (YOY) Change, FY 2022-23 to FY 2023-24
  - Cost Drivers Prioritized by Major Expenditures, Includes UAL and OPEB
  - 5-Year Budget (Top Level) Projections and Chart
  - Administration (Admin) Comparative FY 2023-24 Budget
  - General Fund (GF) Comparative FY 2023-24 Budget
  - General Fund Shares - No Change
- General Fund Distribution by Member Agency Scenarios
  - Current Method and 10 Member Agencies
  - Irvine Ranch Water District (IRWD) and Trabuco Canyon Water District (TCWD) are not included in GF distribution by Member Agency.
- Administration Distribution by Member Agencies Scenarios
  - Current Method: distribution by Project Committee and Member Agency based on O&M Total Costs (Cost Accounting Std.)
  - Admin Overhead Rate (including GF costs) applied to Total O&M Costs
  - Admin Overhead Rate (not including GF costs)

Mr. David Baranowski, Director of Engineering, presented the proposed CIP Capital Spending Plan, FY 2023-2024, and one-year forecast. An open discussion ensued.

This was an information item; no action was taken.

4. Trabuco Canyon Water District

Mr. Jim Burror, Acting General Manager/Director of Operations, presented Trabuco Canyon Water Districts' proposed Termination Agreement. An open discussion ensued.

This was an information item; no action was taken.

Adjournment

There being no further business, Chairperson Castillo adjourned the meeting at 12:16 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Finance Committee of March 21, 2023, and approved by the Finance Committee and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

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Danita Hirsh / Assistant Board Secretary  
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY



# Agenda Item

# 5.D.

**Board of Directors Meeting**

**Meeting Date:** January 11, 2024

**TO:** Board of Directors  
**FROM:** Jim Burror, Acting General Manager/Director of Operations  
**SUBJECT:** November 2023 Operations Report

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## Summary/Discussion

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

1. Monthly Operational Report

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

2. SOCWA Ocean Outfall Discharges by Agency

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

3. Beach Ocean Monitoring Report

4. Recycled Water Report

5. Pretreatment Report

## Fiscal Impact

No change.

**Recommended Action:** Receive and file the Operational Reports.

# Monthly Operational Report

# SOCWA Operational Report November, 2023

## Excursion, Complaint, and Violation Events

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

## Plant Wastewater Billing Characteristics

Key Parameters	CTP	RTP	JBL TP1	JBL TP2	Totals
Influent (mgd) (1)	2.36	7.10	6.73	0.97	17.16
Effluent (mgd)	2.10	3.61	6.73	2.80	15.24
Peak Flow (mgd)	7.06	16.17	10.32	9.00	42.55
Influent BOD (mg/l)	249	302	343	335	
Influent TSS (mg/l)	279	351	375	392	
Effluent BOD (mg/l)	5.4	6.4	10.0	10.5	
Effluent TSS (mg/l)	6.7	9.8	11.8	12.8	
Effluent Turbidity (NTU)	3.2	4.8	5.9	4.5	

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

## Recycled Water (AWT) Operations

Key Parameters	CTP	RTP	JBL	Totals
Average Flow (mgd)	1.09	3.49		4.58
Days of Operation (days)	28	30		
Total Flow (million gallons)	32.7	104.7		137.3
Plant Irrigation (million gallons)	0.01	0.20	0.27	
AWT Time Online (%)	97			

### Wastewater Unit Definitions

mgd = million gallons per day

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

NTU = Nephelometric Turbidity Units

# SOCWA Operational Report November, 2023 (cont'd)

## Biosolids Management

Biosolids Management Site	CTP	RTP	JBL	Totals
Synagro Compost (tons)		755.8	0.0	755.8
Nursery Products (tons)		398.1	572.3	970.4
Prima Deshecha (tons)		35.9	216.6	252.5
Other: _____ (tons)		0.0	0.0	0.0
Total Processed (tons)		1,189.7	788.9	1,978.6

## Summary of Maintenance Activities

Task Type	CTP	RTP	JBL	Totals
Preventative Maintenance	172	384	384	940
Corrective Maintenance	20	37	38	95

## Site Visitors

Visitor Types	CTP	RTP	JBL	Totals
Regulatory	0	0	0	0
Member Agency	0	1	1	2
Residents	0	0	0	0
Others	7	30	16	53
Tours #/Visitors	0	0	0	0

## Grit Disposal Management

Grit & Screenings	CTP	RTP	JBL	Totals
Simi Valley Landfill (tons)	6.0	14.3	NA	20.3

## Chemical and Energy Utilization

Chemical/Utility	CTP	RTP	JBL	Totals
Ferric Chloride (tons)	NA	27.5	NA	27.5
Utility Power Purchase (kWh)	191,118	252,331	209,706	653,155
Cogen Power (kWh)		280,099	448,466	728,565
Natural Gas (Dth)	NA	NA	NA	0
Digester Gas to Engine (scfm)		3,751,482	5,463,524	9,215,006
Digester Gas to Boiler (scfm)		0		0
Digester Gas to Flares (scfm)		3,705,604	188,397	3,894,001
Digester Gas Power Savings		\$43,797		

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

### Wastewater Unit Definitions

kWh = kilowatt hours

Dth = Dekatherms

scfm = standard cubic feet per minute

# SOCWA Operational Report November, 2023 (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	1.401	56.21%				1.40
EBS	0.059	2.35%				0.06
SCWD	1.033	41.45%		1.621	21.03%	2.65
MNWD	0.000	0.00%	7.10	1.400	18.17%	8.50
CSJC				2.221	28.83%	2.22
SMWD				2.464	31.97%	2.46
<b>Total</b>	<b>2.492</b>	<b>100.00%</b>	<b>7.10</b>	<b>7.706</b>	<b>100.00%</b>	<b>17.30</b>

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

Agency	SJCOO (mgd)	SJCOO (%)	SJCOO Meter (mgd)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB				1.40	12.20%	1.40	
EBS				0.06	0.51%	0.06	
SCWD	1.82	14.55%		0.52	4.54%	2.34	Includes Desalters
MNWD	2.90	23.22%		3.61	31.42%	6.51	
ETWD				2.28	19.88%	2.28	Direct Outfall Only
CSJC	2.64	21.16%				2.64	Incudes Desalter
SMWD	2.47	19.81%				2.47	Includes Chiquita
CSC	2.65	21.26%				2.65	Direct Outfall Only
IRWD				3.61	31.46%	3.61	Direct Outfall Only
<b>Total</b>	<b>12.48</b>	<b>100.00%</b>	<b>16.15</b>	<b>11.48</b>	<b>100.00%</b>	<b>23.96</b>	

# SOCWA Operational Report November, 2023 (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%	2.210	26.25%	2.221	28.83%	2.24	30.66%
MNWD	3.00	23.08%	1.400	16.63%	1.400	18.17%	1.40	19.12%
SCWD	3.75	28.85%	1.610	19.12%	1.621	21.03%	1.71	23.33%
SMWD	2.25	17.31%	3.200	38.00%	2.464	31.97%	1.97	26.88%
Total	13.00	100.00%	8.420	100.00%	7.706	100.00%	7.32	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%	5,884	22.54%	6,708	33.19%	6,556	26.15%
MNWD	8,340	21.62%	6,169	23.63%	3,933	19.46%	5,574	22.23%
SCWD	7,715	20.00%	5,584	21.39%	2,647	13.10%	4,756	18.97%
SMWD	10,946	28.38%	8,473	32.45%	6,922	34.25%	8,189	32.66%
Total	38,573	100.00%	26,110	100.00%	20,210	100.00%	25,075	100.00%

### Project Committee No. 5 - San Juan Creek Ocean Outfall (SJC00)

Agency	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CSC	16.63%	13.300	16.63%	2.653	21.26%	2.519	23.14%
CSJC	11.08%	8.860	11.08%	2.641	21.16%	2.674	24.56%
MNWD(3)	15.51%	12.410	15.51%	2.897	23.22%	1.898	17.43%
SCWD	12.46%	9.970	12.46%	1.816	14.55%	1.814	16.66%
SMWD	44.32%	35.460	44.33%	2.472	19.81%	1.983	18.22%
Total	100.00%	80.000	100.00%	12.479	100.00%	10.888	100.00%

(1) Influent billing meter summary:

- a. CSJC is metered daily in the collection system. The area-velocity meter has an accuracy of +/- 20%.
- b. MNWD is assumed to be 1.4 mgd unless Treatment Plant 3A is discharging to the sewer. If other discharges occur, they are estimated.
- c. SCWD flows are the summation of the DPSD and Victoria PS meters. The two metering systems have an accuracy of +/- 10%.
- d. The Oso Trabuco sewer is metered daily in the collection system. The flows from MNWD are subtracted from the metering data collected to determine SMWD's flows. The metering system in the collection system has an accuracy of +/- 20%.

(2) The 36-month average is the average of the past 36 months. The Use Audit is based on the last 3 Fiscal Years versus the average of the past 36 months.

(3) All monthly flow data for 3A is reported as part of MNWD's flow to the ocean outfall.

# SOCWA Operational Report November, 2023 (cont'd)

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

### 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%	1.496	55.22%	1.401	56.21%	1.579	55.01%
EBS	0.20	2.99%	0.060	2.21%	0.059	2.35%	0.071	2.48%
SCWD	2.00	29.85%	1.153	42.56%	1.033	41.45%	1.220	42.50%
MNWD	1.96	29.25%	0.000	0.00%	0.000	0.00%	0.000	0.00%
Total	6.70	100.00%	2.709	100.00%	2.492	100.00%	2.871	100.00%

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

Agency	Budget Liquids (mgd)	Budget Liquids (%)	Month Plant Influent (mgd)	Month Centrate (mgd)	Month Total (mgd)(1)	Month Total (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CLB	0.00716	0.0942%	0.0000	0.0115	0.0115	0.1595%	0.0136	0.1816%
EBS	0.00001	0.0001%	0.0000	0.0005	0.0005	0.0067%	0.0006	0.0082%
SCWD	0.00427	0.0562%	0.0000	0.0085	0.0085	0.1176%	0.0105	0.1403%
ETWD	0.01562	0.2055%	0.0000	0.0177	0.0177	0.2461%	0.0150	0.2009%
MNWD	7.57236	99.6439%	7.0977	0.0704	7.1681	99.4701%	7.4302	99.4691%
Total	7.59942	100.0000%	7.0977	0.1086	7.2063	100.0000%	7.4699	100.0000%

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

# SOCWA Operational Report November, 2023 (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%	4,406	11.89%	111,224	10.59%	140,487	12.65%
EBS	295	0.59%	177	0.48%	4,648	0.44%	6,340	0.57%
SCWD	4,480	8.96%	3,392	9.16%	82,015	7.81%	108,555	9.78%
ETWD	10,200	20.41%	5,305	14.32%	171,579	16.33%	154,777	13.94%
MNWD	29,395	58.82%	23,769	64.16%	681,200	64.84%	700,220	63.06%
<b>Total</b>	<b>49,975</b>	<b>100.00%</b>	<b>37,049</b>	<b>100.00%</b>	<b>1,050,666</b>	<b>100.00%</b>	<b>1,110,379</b>	<b>100.00%</b>

### 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	11.00%	5.500	11.00%	1.401	12.20%	1.579	17.52%
EBS	0.78%	0.390	0.78%	0.059	0.51%	0.071	0.79%
ETWD	16.30%	8.151	16.30%	2.283	19.88%	1.780	19.74%
IRWD	15.76%	7.880	15.76%	3.613	31.46%	2.257	25.04%
MNWD	43.85%	21.924	43.85%	3.609	31.42%	2.695	29.90%
SCWD	12.31%	6.155	12.31%	0.521	4.54%	0.632	7.01%
<b>Total</b>	<b>100.00%</b>	<b>50.000</b>	<b>100.00%</b>	<b>11.485</b>	<b>100.00%</b>	<b>9.015</b>	<b>100.00%</b>



## SOCWA Operational Report November 2023 (cont'd)

### *Select Critical Equipment Repairs*

#### JBL - PC2

Troubleshoot the Plant Compressor that failed.  
Replaced corroded and failed centrifuge Y Stainer.  
Troubleshoot the inoperable Primary Tank #8 sludge valves.  
Replaced a failed regulator diaphragm on the Waste Gas Burner.  
Repaired a corroded section of the potable water line.  
Mitigated graffiti on the Plant fencing.  
Replaced failed RAS sample pump.  
Troubleshoot the inoperable Secondary Tank #3 air control valves.  
Replaced failing recirculation pump on Odor Control Scrubber No. 2.  
Troubleshoot RAS Pumps #5 and #7 that would not work in Auto.  
Replaced damaged gate and spring on DAFT #1.  
Troubleshoot the East RAS pump #3 failed discharge valve.

#### CTP - PC15

Troubleshoot the AWT Filtrate Valve #6 / Cell #6 inoperable inlet valve.  
Adjusted failing Headworks Fresh Air Fan for safety and odor control.  
Replaced failed Plant water heater.  
Replaced failed and corroded Grit drain system.  
Troubleshoot failed AWT bleach pump.  
Replaced failed and corroded safety eyewashes.  
Troubleshoot several malfunctioning sludge valves.

#### RTP - PC17

Repaired failed Energy Building Fresh Air Handling Unit.  
Replaced corroded Moisture Pot on Digester #2.  
Inspected and repaired leaks on the digester gas piping system.  
Replaced failed Digester #2 heat loop temperature gauge.  
Replaced failing Plant Drainage Pump #2.  
Troubleshoot pressure loss in the 3W system.  
Replaced failed pressure gauge on Centrifuge #4 Feed Pump.  
Replaced failing Centrifuge #3 Polymer Pump.  
Troubleshoot CEMS failure due to a system error that shut down the Cogen Engine.  
Troubleshoot the failed heat loop water pump.  
Troubleshoot the failing Centrifuge #2 Diverter Gate.  
Troubleshoot failed YMCA Heat Pump.  
Removed Interstage Pump #3 for a scheduled major overhaul.  
Overhauled Centrifuge #4.

## SOCWA Operational Report November 2023 (cont'd)

### *Select Critical Equipment Repairs (cont'd)*

#### Support Services - ALL PC'S

Replaced failed O2 Caps on Aeration Tank 4 at JBL.  
Troubleshoot Aerzen Blower #7, which failed while running at JBL.  
Troubleshoot the Centrifuge OIT that was frozen at JBL.  
Troubleshoot the failed Emergency Pump #1 level sensor at JBL.  
Replaced the failing motor on the Plant Grinding Pump at JBL.  
Replaced failing Ferric tank level transmitter at CTP.  
Replaced failing Sludge EQ Tank level transmitter at CTP.  
Replaced failed O2 Caps on Aeration Tank 2 at RTP.  
Replaced failing TWAS #1 limit switches at RTP.  
Replaced failing Plant Water Pump motor at RTP.  
Replaced failing Digester 2 Sludge Feed Meter at RTP.  
Troubleshoot the failed RAS Pump #55 VFD fault.

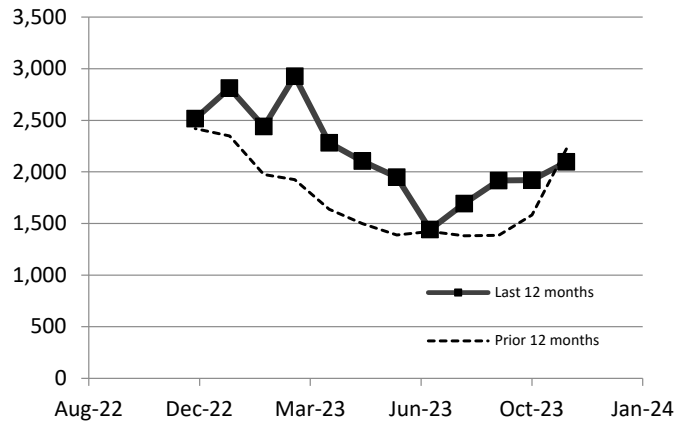
# SOCWA Ocean Outfall Discharges by Agency

## SOCWA Operational Report November, 2023 (cont'd)

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.40	12.20%	1.40
EBSD			0.06	0.51%	0.06
SCWD	1.82	14.55%	0.52	4.54%	2.34
MNWD	2.90	23.22%	3.61	31.42%	6.51
ETWD			2.28	19.88%	2.28
CSJC	2.64	21.16%			2.64
SMWD	2.47	19.81%			2.47
CSC	2.65	21.26%			2.65
IRWD			3.61	31.46%	3.61
<b>Total</b>	<b>12.48</b>	<b>100.00%</b>	<b>11.48</b>	<b>100.00%</b>	<b>23.96</b>
or Acre-Feet per year equivalent					26,839

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

Nov-23	2,097
Oct-23	1,919
Sep-23	1,917
Aug-23	1,693
Jul-23	1,442
Jun-23	1,949
May-23	2,105
Apr-23	2,282
Mar-23	2,926
Feb-23	2,440
Jan-23	2,812
Dec-22	2,515
<b>Total</b>	<b>26,097</b>



# Beach / Ocean Monitoring Report

ALISO CREEK OCEAN OUTFALL MONITORING REPORT

November 2023

DATE	IRWD LOS ALISOS WRP				EL TORO WRP				SOCWA REGIONAL PLANT				SOCWA COASTAL PLANT				IRWD IDP	IRWD SGU	SCWD ACWRF	ACOO FLOW	Rain Fall
	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	FLOW	FLOW	FLOW	inches
	MGD	mg/L	mg/L	ml/L	MGD	mg/L	mg/L	ml/L	MGD	mg/L	mg/L	ml/L	MGD	mg/L	mg/L	ml/L	MGD	MGD	MGD	MGD	
11/01/23	3.379	19.0	5.9	0.3	2.059	3.9	3.3	<0.1	1.670	10.0	4.0	<0.1	1.719	1.8	3.0	0.1	0.385	0.000	0.119	9.331	0.00
11/02/23	3.238	21.0	6.0	0.3	1.870	0.7	1.4	<0.1	1.74	8.4	4.0	<0.1	2.212	2.0	<2.0	<0.1	0.389	0.000	0.146	9.595	0.00
11/03/23	3.158	20.0	5.3	0.2	1.470	6.1	1.7	<0.1	1.630	8.4	7.0	<0.1	1.819	3.8	2.0	<0.1	0.389	0.000	0.113	8.579	0.00
11/04/23	2.947	20.0		<0.1	2.632	5.0	2.2	<0.1	1.710	9.4	10.0		1.615	2.2	2.0		0.388	0.000	0.000	9.292	0.00
11/05/23	3.103	18.0	5.8	0.1	4.056	5.7	2.8	<0.1	2.620	8.6	6.0	0.1	2.183	5.0	5.0	<0.1	0.405	0.000	0.013	12.380	0.00
11/06/23	3.463	23.0	4.9	<0.1	1.549	6.1	2.6	<0.1	3.510	7.6	5.0	0.1	2.290	6.0	3.0	<0.1	0.389	0.000	0.111	11.312	0.00
11/07/23	3.879	19.0	5.6	0.1	1.570	6.7		<0.1	3.040	7.6	10.0	0.1	1.907	4.0	4.0	0.1	0.389	0.000	0.133	10.918	0.00
11/08/23	3.333	20.0	5.0	0.2	2.258	4.6	2.9	<0.1	3.170	8.8	4.0	0.1	1.886	3.4	3.0	0.1	0.389	0.000	0.146	11.182	0.00
11/09/23	3.309	19.0	5.2	0.5	1.569	6.4	3.7	<0.1	4.310	7.4	3.0	0.2	2.070	3.6	4.0	0.1	0.388	0.000	0.129	11.775	0.00
11/10/23	3.228	19.0	5.9	<0.1	1.386	7.0	3.1	<0.1	4.190	7.4	7.0	0.1	1.483	2.6	1.0	0.1	0.388	0.000	0.134	10.809	0.00
11/11/23	3.181	19.0		<0.1	1.895	2.4	2.6	<0.1	3.060	9.4	6.0		1.982	5.4	4.0		0.335	0.000	0.139	10.592	0.00
11/12/23	3.183	18.0	7.3	<0.1	2.447	9.0	4.4	<0.1	2.970	7.2	4.0	0.2	1.874	1.4	5.0	<0.1	0.389	0.000	0.124	10.987	0.00
11/13/23	3.184	22.0	8.2	<0.1	1.646	12.2	4.7	<0.1	3.160	10.4	5.0	0.5	1.729	7.6	6.0	<0.1	0.388	0.000	0.150	10.257	0.00
11/14/23	3.301	22.0	10.0	<0.1	1.891	13.6		<0.1	2.530	11.4	4.0	0.2	1.845	6.6	6.0	<0.1	0.389	0.000	0.097	10.053	0.00
11/15/23	3.425	23.0	11.0	0.2	3.313	27.3	4.6	0.1	3.350	12.0	3.0	0.9	2.189	2.0	3.0	0.1	0.384	0.000	0.120	12.781	0.52
11/16/23	3.389	22.0	12.0	<0.1	2.307	5.8	2.0	0.1	4.920	11.4	4.0	0.5	2.066	3.6	4.0	<0.1	0.389	0.000	0.154	13.225	0.00
11/17/23	2.915	18.0	13.0	0.1	3.112	22.6	8.6	0.2	5.250	11.8	5.0	0.3	2.266	6.6	7.0	0.1	0.389	0.000	0.118	14.050	0.01
11/18/23	3.037	21.0		<0.1	3.293	17.0	5.6	0.1	5.040	10.0	9.0		2.265	7.6	11.0		0.389	0.000	0.137	14.161	0.03
11/19/23	2.931	22.0	11.0	<0.1	2.941	16.0	5.9	0.1	5.320	10.6		0.4	2.305	7.2		<0.1	0.389	0.000	0.129	14.015	0.03
11/20/23	3.311	14.0	9.2	0.1	2.329	20.2	6.6	0.1	4.890	9.6	7.0	0.4	2.355	11.0	7.0	0.1	0.389	0.000	0.131	13.405	0.00
11/21/23	3.941	13.0	8.1	<0.1	1.903	17.8		0.1	5.290	9.6		1.3	2.079	17.2		0.2	0.389	0.000	0.130	13.732	0.00
11/22/23	2.620	6.3	7.0	0.1	1.094	10.2	3.0	0.1	3.160	13.6	4.0	0.2	1.510	14.6	8.0	0.1	0.385	0.000	0.103	8.872	0.00
11/23/23	3.233	12.0	7.9	<0.1	2.334	12.0	3.0	0.1	5.950	12.2	4.0	0.3	1.759	12.0	9.0	0.1	0.389	0.000	0.153	13.818	0.00
11/24/23	3.309	9.5	6.6	<0.1	1.995	8.4	3.4	0.1	3.460	11.6	4.0	0.2	1.914	9.8	8.0	0.1	0.389	0.000	0.131	11.198	0.02
11/25/23	3.416	12.0		0.2	3.375	16.6	5.7	0.1	2.810	11.4	5.0		1.707	12.6	8.0		0.389	0.000	0.129	11.826	0.00
11/26/23	3.334	15.0	7.4	0.1	2.597	20.8	6.3	0.1	2.630	9.4	4.0	0.1	2.616	8.8	7.0	0.1	0.389	0.000	0.116	11.682	0.00
11/27/23	2.813	19.0	9.6	<0.1	3.096	17.0	4.5	0.1	3.670	8.6	4.0	<0.1	2.568	13.0	10.0	0.1	0.389	0.000	0.139	12.675	0.00
11/28/23	3.206	15.0	11.0	<0.1	2.042	15.3		0.1	2.670	9.4	5.0	0.5	1.500	3.2	4.0	<0.1	0.389	0.000	0.151	9.958	0.00
11/29/23	3.066	16.0	10.0	0.1	1.958	29.8	5.3	0.1	4.980	12.4	37.0	0.3	1.890	9.8	8.0	<0.1	0.389	0.000	0.097	12.380	0.01
11/30/23	2.939	15.0	8.1	0.2	2.492	6.3	2.1	0.1	5.570	7.4	4.0	0.2	1.812	6.6	8.0	0.1	0.382	0.000	0.142	13.337	0.34
AVG	3.226	17.7	8.0	<0.1	2.283	11.8	3.9	<0.1	3.609	9.8	6.4	<0.3	1.981	6.7	5.4	<0.1	0.387	0.000	0.121	11.606	
TOTAL	96.77				68.48				108.27				59.42				11.61	0.00	3.634	348.18	0.96

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: November 2023  
 REPORT DUE: January 1 2024  
 SAMPLE SOURCE: Surf zone  
 TYPE OF SAMPLE: Grab

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

Tidal Condition: High Tide 06:05

Weather: Clear

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	11/08/23	07:59	20	10	4	None	None	None	None	Blue	63	Clear		
S4	11/08/23	10:08	<10	<10	<2	None	None	None	None	Green		Clear		
S5	11/08/23	09:58	<10	<10	10	None	None	None	None	Green		Clear		
S6	11/08/23	09:40	10	<10	<2	None	None	None	None	Blue		Clear		
WEST	11/08/23	09:33	<10	<10	<2	None	None	None	None	Blue		Clear		
S7	11/08/23	09:26	<10	<10	6	None	None	None	None	Blue		Clear		
S8	11/08/23	09:10	<10	<10	4	None	None	None	None	Blue		Clear		
S9	11/08/23	09:06	<10	10	2	None	None	None	None	Blue		Clear		
ACM1	11/08/23	09:00	10	<10	4	None	None	None	None	Blue		Clear		
S10	11/08/23	08:40	30	10	8	None	None	None	None	Blue		Clear		
S11	11/08/23	08:34	10	10	6	None	None	None	None	Blue		Clear		
S12	11/08/23	08:27	<10	<10	10	None	None	None	None	Blue		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.

Unified Beach Monitoring

#2

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: November 2023  
 REPORT DUE: January 1, 2024  
 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 07:54

Weather: Clear

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	11/13/23	08:34	<10	<10	2	None	None	None	None	Blue		Clear		
S4	11/13/23	10:15	10	<10	<2	None	None	None	None	Blue		Clear		
S5	11/13/23	10:10	<10	<10	<2	None	None	None	None	Blue		Clear		
S6	11/13/23	09:55	<10	<10	2	None	None	None	None	Blue		Clear		
WEST	11/13/23	09:43	<10	<10	2	None	None	None	None	Blue		Clear		
S7	11/13/23	09:34	<10	<10	2	None	None	None	None	Blue		Clear		
S8	11/13/23	09:25	10	<10	2	None	None	None	None	Blue		Clear		
S9	11/13/23	09:10	10	10	2	None	None	None	None	Blue		Clear		
ACM1	11/13/23	09:04	40	10	20	None	None	None	None	Blue	63	Clear		
S10	11/13/23	08:47	30	40	10	None	None	None	None	Blue		Clear		
S11	11/13/23	08:45	20	10	10	None	None	None	None	Blue		Clear		
S12	11/13/23	08:38	10	<10	4	None	None	None	None	Blue		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 100m



South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: November 2023  
 REPORT DUE: January 1, 2024  
 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 10:36

Weather: Clear

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	11/21/23	08:05	<10	<10	<2	None	None	None	None	Green	58	Clear	Flowing	
S4	11/21/23	10:20	<10	<10	<2	None	None	None	None	Green		Clear		
S5	11/21/23	10:05	<10	<10	2	None	None	None	None	Green		Clear		
S6	11/21/23	09:45	<10	<10	<2	None	None	None	None	Green		Clear		
WEST	11/21/23	09:40	<10	<10	<2	None	None	None	None	Green		Clear		
S7	11/21/23	09:30	<10	<10	<2	None	None	None	None	Green		Clear		
S8	11/21/23	09:20	<10	<10	<2	None	None	None	None	Blue		Clear		
S9	11/21/23	09:00	80	20	6	None	None	None	None	Green		Clear		
ACM1	11/21/23	08:55	1800	<10	70	None	None	None	None	Green		Slightly Turbid		
S10	11/21/23	08:30	10	10	2	None	None	None	None	Green		Clear		
S11	11/21/23	08:25	30	<10	<2	None	None	None	None	Green		Clear		
S12	11/21/23	08:20	<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: November 2023  
 REPORT DUE: January 1, 2024  
 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 09:17

Weather: Partly Cloudy

COMMENTS:

0.0

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	11/29/23	08:25	<10	<10	2	None	None	None	None	Green	60	Clear		
S4	11/29/23	10:55	<10	10	<2	None	None	None	None	Green		Clear		
S5	11/29/23	10:35	<10	<10	<2	None	None	None	None	Green		Clear		
S6	11/29/23	10:05	<10	<10	2	None	None	None	None	Green		Clear		
WEST	11/29/23	10:00	<10	<10	<2	None	None	None	None	Green		Clear		
S7	11/29/23	09:50	<10	<10	<2	None	None	None	None	Green		Clear		
S8	11/29/23	09:45	10	<10	2	None	None	None	None	Blue		Clear		
S9	11/29/23	09:30	40	10	24	None	None	None	None	Green		Clear		
ACM1	11/29/23	09:20	10	10	2	None	None	None	None	Green		Clear		
S10	11/29/23	08:55	<10	10	<10	None	None	None	None	Green		Slightly Turbid		
S11	11/29/23	08:45	50	20	<10	None	None	None	None	Green		Slightly Turbid		
S12	11/29/23	08:35	10	10	10	None	None	None	None	Green		Slightly Turbid		

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

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



## Aliso Creek Ocean Outfall

### Unified Beach Water Quality Monitoring Stations

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

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

MRP R9-2022-0006 MONTHLY MONITORING REPORT

Off Shore Stations

South Orange County Wastewater Authority

NPDES No. CA0107611

DISCHARGE: Aliso Creek Ocean Outfall

ORDER/RESOLUTION No. R9-2022-0006

REPORT FOR: November 2023

REPORT FREQUENCY: Monthly

REPORT DUE: January 1, 2024

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 6:05 foam at N-1

Sta No.	Sample Depth	Sample Date	Total Coliform	Fecal Coliform	Entero-coccus	Sample Time	Oil & Grease	Sewage Debris	0 - None 1 - Mild 2 - Moderate 3 - Severe
			CFU/100mL SM9222B	CFU/100mL SM9222D	CFU/100mL EPA 1600				
A-1	Surface	11/07/23	<2	<2	<2	07:55	0	0	
A-1	Mid depth	11/07/23	<10	<10	<10				
A-2	Surface	11/07/23	10	<2	<2	08:03	0	0	
A-2	Mid depth	11/07/23	<10	<10	<10				
A-3	Surface	11/07/23	<2	<2	<2	08:11	0	0	
A-3	Mid depth	11/07/23	<10	<10	<10				
A-4	Surface	11/07/23	2	<2	<2	08:27	0	0	
A-4	Mid depth	11/07/23	<10	<10	<10				
A-5	Surface	11/07/23	2	<2	<2	08:18	0	0	
A-5	Mid depth	11/07/23	<10	<10	<10				
B-1	Surface	11/07/23	<2	<2	<2	07:43	0	0	
B-1	Mid depth	11/07/23	<10	<10	<10				
B-2	Surface	11/07/23	10	<2	<2	08:38	0	0	
B-2	Mid depth	11/07/23	<10	<10	<10				
N1	Surface	11/07/23	<2	<2	<2	09:25	0	0	
N2	Surface	11/07/23	<2	<2	<2	09:21	0	0	
N3	Surface	11/07/23	<2	<2	<2	09:17	0	0	
N4	Surface	11/07/23	2	<2	<2	09:12	0	0	
N5	Surface	11/07/23	4	<2	<2	09:09	0	0	
N6	Surface	11/07/23	<2	<2	<2	09:05	0	0	
N7	Surface	11/07/23	<2	<2	<2	09:00	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.

Receiving Water Limitations: (1)30-Day geometric mean of fecal coliform density not to exceed 200CFU/100 mL calculated based on the five most recent samples from each site (2)single sample max not to exceed 400 CFU/100mL

(3) Enterococcus 6-week rolling geometric mean not to exceed 30 CFU/100 mL, calculated weekly. (4) Statistical threshold value (STV) of 110 CFU/100 mL for enterococcus not to be exceeded by more than 10% of samples collected in a calendar month, calculated in a static manner

**Compliance Summary Report  
Aliso Creek Ocean Outfall 2023**

ACOO Permit Order No. R9-2022-0006							
Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
IRWD -SGU	3/18/2023	TDS	Not Monitored	mgl	weekly	Not reported	\$3,000
IRWD -SGU	3/18/2023	Turbidity	Not Monitored	ntu	weekly	Not reported	\$3,000
IRWD - IDP	8/5/2023	TDS	Not Monitored	mgl	weekly	Not reported	\$3,000



**SOCWA and MEMBER AGENCY FACILITIES  
ACOO Spill / Overflow Report Log - 2023  
Order No. R9-2022-0006 ~ NPDES Permit No. CA0107611**

Reporting Agency	Responsible Agency	Estimated Volume (Gallons)	Type of Discharge	Location/Comments	Receiving Waters	Date Reported To State	Date Resolved
				No Spills During this Monitoring Period			

SAN JUAN CREEK OCEAN OUTFALL MONITORING REPORT

November 2023

DATE	J.B. LATHAM FACILITY				SAN CLEMENTE WRP				SMWD CHIQUITA WRP				3-A PLANT				CSJC	SCWD	SJCOO	Rain
	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	FLOW MGD	FLOW MGD	Fall inches
11/01/23	7.750	7.6	6.6	0.1	2.255	7.8	9.0	<0.1	0.016	0.5	1.7	<0.1	1.709	6.0	4.2	<0.1	0.530	0.179	12.290	0.00
11/02/23	7.830	8.4	6.6	<0.1	2.273	8.2	9.0	<0.1	0.000				1.479	8.8	6.1	<0.1	0.540	0.183	12.740	0.00
11/03/23	7.700	8.7	6.6	<0.1	2.025	8.7	6.0	<0.1	0.000				1.556	7.8	5.9	<0.1	0.540	0.179	12.410	0.00
11/04/23	7.780	9.1	7.2		2.401		7.0		0.000				1.565				0.540	0.186	12.450	0.00
11/05/23	7.810	11.1	10.8	<0.1	2.470				0.000				1.584				0.500	0.183	12.820	0.00
11/06/23	7.850	23.6	14.8	<0.1	2.528	8.8	7.0	<0.1	0.000				1.601	11.2	6.6	<0.1	0.070	0.179	13.080	0.00
11/07/23	7.860	35.1	31.1	<0.1	2.700		5.0	<0.1	0.000				1.417	9.4	6.5	<0.1	0.770	0.179	13.020	0.00
11/08/23	7.540	14.7	9.0	0.2	2.839	8.2	8.0	<0.1	0.047	1.2	1.8	<0.1	1.420	8.0	5.8	<0.1	0.580	0.177	12.770	0.00
11/09/23	7.620	11.4	9.6	0.1	2.201	9.1	7.0	0.1	0.000				1.394	8.6	6.2	<0.1	0.580	0.183	12.500	0.00
11/10/23	7.610	6.6	7.2	0.2	2.336	8.0	6.0	<0.1	0.000				1.412	8.2	6.0	<0.1	0.580	0.179	12.370	0.00
11/11/23	7.710	9.3	8.6	<0.1	2.419	7.8	5.0		0.000				1.420				0.580	0.179	12.730	0.00
11/12/23	7.820	12.1	9.9	<0.1	2.609				0.000				1.501				0.530	0.178	12.910	0.00
11/13/23	7.870	11.5	10.8	<0.1	2.922	7.7	8.0	<0.1	0.000				1.501	10.8	6.9	<0.1	0.480	0.182	13.100	0.00
11/14/23	7.920	9.4	4.6	0.2	2.390	8.1	9.0	<0.1	0.000				1.413	11.6	7.2	<0.1	0.470	0.175	13.180	0.00
11/15/23	7.690	9.3	7.0	<0.1	2.624	8.0	6.0	<0.1	0.000				1.462	10.0	7.4	<0.1	0.480	No Flow	12.530	0.52
11/16/23	8.060	8.9	7.6	0.1	2.515	7.3	6.0	<0.1	0.112	2.0	3.7	0.2	1.431	8.6	5.6	<0.1	0.130	0.763	12.950	0.00
11/17/23	7.420	9.0	11.6	0.1	2.822	6.3	6.0	<0.1	0.000				1.546	7.8	5.2	<0.1	0.130	0.196	12.960	0.01
11/18/23	7.610	9.9	8.0		2.749		6.0		0.000				1.513				0.410	0.201	13.070	0.03
11/19/23	7.660	10.0		0.1	2.647				0.000				1.502				0.390	0.195	13.210	0.03
11/20/23	7.550	8.0	9.4	0.1	3.211	5.8	6.0	0.2	0.000				1.565	9.2	6.1	<0.1	0.350	0.179	13.230	0.00
11/21/23	7.760	8.9		0.1	2.842	6.0	5.0	0.1	0.000				1.526	8.6	6.0	<0.1	0.340	0.178	13.620	0.00
11/22/23	7.630	8.0	6.7	0.1	3.052	5.9	5.0	0.1	0.003	1.4	2.1	0.4	1.579	24.8	12.0	<0.1	0.340	0.183	13.130	0.00
11/23/23	8.190	9.4	6.6	0.1	2.854	5.6	5.0	<0.1	0.000				1.499	72.4	32.0	0.1	0.340	0.179	13.460	0.00
11/24/23	8.090	10.4	8.9	0.2	3.121	4.9	4.0	<0.1	0.000				1.424	125.0	42.0	0.1	0.340	0.178	13.420	0.02
11/25/23	7.700	11.5	9.9		2.730		5.0		0.000				1.476				0.340	0.178	12.820	0.00
11/26/23	7.770	18.2	17.1	<0.1	3.490				0.035	2.4	5.2	<0.1	1.531				0.340	0.179	12.820	0.00
11/27/23	7.830	21.5	14.2	0.1	2.140	5.3	5.0	<0.1	0.001	3.2	3.4	0.3	1.505	21.8	12.8	<0.1	0.340	0.176	13.240	0.00
11/28/23	7.680	15.9	12.5	0.1	2.933	5.8	4.0	<0.1	0.004	2.3	3.0	0.1	1.443	16.2	9.0	<0.1	0.340	0.180	13.210	0.00
11/29/23	7.460	15.1	11.8	<0.1	2.654	3.7	3.0	<0.1	0.030	1.4	3.5	0.1	1.463	14.0	8.0	<0.1	0.340	0.176	12.690	0.01
11/30/23	7.680	13.1	12.4	0.1	2.851	5.6	7.0	<0.1	0.000				1.475	14.0	7.2	<0.1	0.340	0.175	13.340	0.34
AVG TOTAL	7.748 232.450	12.2	10.3	<0.1	2.653 79.603	6.9	6.1	<0.1	0.008 0.248	1.8	3.1	<0.2	1.497 44.912	19.2	9.8	<0.1	0.419 12.580	0.195 5.837	12.936 388.070	0.96



South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: November 2023  
 REPORT DUE: January 1, 2024  
 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 04:42

Weather: Clear

COMMENTS:

STATION #	DATE	TIME	Total Coliform	Fecal Coliform	Enterococcus	Material of Sewage Origin		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml	CFU/100ml	CFU/100ml	Onshore	Offshore	None	None	None	None	None	None	None
S0	11/01/23	09:55	280	400	500	None	None	None	None	Green	64	Slightly Turbid		
S1	11/01/23	09:45	20	<20	4	None	None	None	None	Green		Slightly Turbid		
S2	11/01/23	10:10	20	20	10	None	None	None	None	Green		Slightly Turbid		
DSB5	11/01/23	10:25	<20	<20	4	None	None	None	None	Green		Slightly Turbid		
S3	11/01/23	09:35	<20	<20	<2	None	None	None	None	Green		Clear		
DSB4	11/01/23	09:30	20	<20	10	None	None	None	None	Green		Clear		
S5	11/01/23	09:15	<20	<20	2	None	None	None	None	Green		Slightly Turbid		
DSB1	11/01/23	09:05	<20	<20	10	None	None	None	None	Green		Slightly Turbid		
SJC1	11/01/23	10:00	<100	<100	60	None	None	None	None	Green		Slightly Turbid		

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

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: November 2023  
 REPORT DUE: January 1, 2024  
 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 05:47

Weather: Clear

COMMENTS:

STATION #	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage Origin		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600	Onshore	Offshore							
S0	11/07/23	09:31	80	20	10	None	None	None	None	Blue	64	Clear		
S1	11/07/23	08:30	<20	200	6	None	None	None	None	Blue		Clear		
S2	11/07/23	07:59	200	200	220	None	None	None	None	Green		Clear		
DSB5	11/07/23	07:50	100	20	48	None	None	None	None	Green		Clear		
S3	11/07/23	08:35	<20	<20	8	None	None	None	None	Green		Clear		
DSB4	11/07/23	08:39	<20	<20	10	None	None	None	None	Blue		Clear		
S5	11/07/23	08:52	20	<20	2	None	None	None	None	Blue		Clear		
DSB1	11/07/23	08:58	40	<20	20	None	None	None	None	Blue		Clear		
SJC1	11/07/23	09:22	200	100	70	None	None	None	None	Blue		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-San Juan Creek Ocean Outfall

REPORT FOR: November 2023  
 REPORT DUE: January 1, 2024  
 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 09:34

Weather: Clear

COMMENTS:

STATION #	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage Origin		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600	Onshore	Offshore							
S0	11/15/23	08:06	200	60	72	None	None	None	None	Blue	59	Clear		
S1	11/15/23	08:12	40	60	96	None	None	None	None	Blue		Clear		
S2	11/15/23	09:11	80	20	20	None	None	None	None	Blue		Clear		
DSB5	11/15/23	09:17	4200	4000	2400	None	None	None	None	Blue		Clear		
S3	11/15/23	08:22	<20	20	2	None	None	None	None	Blue		Clear		
DSB4	11/15/23	08:27	60	<20	10	None	None	None	None	Blue		Clear		
S5	11/15/23	08:52	<20	<20	4	None	None	None	None	Blue		Clear		
DSB1	11/15/23	08:46	<20	20	10	None	None	None	None	Blue		Clear		
SJC1	11/15/23	07:56	100	100	40	None	None	None	None	Blue		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-San Juan Creek Ocean Outfall

REPORT FOR: November 2023  
 REPORT DUE: January 1, 2024  
 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 10:36  
 Weather: Clear  
 COMMENTS:

STATION #	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage Origin		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	None	None	None	None	None	None	None
S0	11/21/23	07:47	660	260	280	None	None	None	None	Green	59	Clear		
S1	11/21/23	08:07	100	40	20	None	None	None	None	Green		Clear		
S2	11/21/23	07:11	100	40	50	None	None	None	None	Green		Slightly Turbid		
DSB5	11/21/23	06:58	200	240	480	None	None	None	None	Green		Slightly Turbid		
S3	11/21/23	08:15	80	40	10	None	None	None	None	Green		Clear		
DSB4	11/21/23	08:13	20	<20	4	None	None	None	None	Green		Clear		
S5	11/21/23	08:29	80	40	2	None	None	None	None	Green		Slightly Turbid		
DSB1	11/21/23	08:35	100	<20	2	None	None	None	None	Green		Slightly Turbid		
SJC1	11/21/23	07:17	6800	6500	5000	None	None	None	None	Green		Slightly Turbid	Flowing	

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

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: November 2023  
 REPORT DUE: January 1, 2024  
 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 08:40  
 Weather: Clear  
 COMMENTS:

STATION #	DATE	TIME	Total Coliform	Fecal Coliform	Entero-coccus	Material of Sewage Origin		Oil & Grease		Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600	Onshore	Offshore	Grease	Odor					
S0	11/27/23	09:00	20	<20	190	None	None	None	None	Green		Slightly Turbid		
S1	11/27/23	09:04	40	<20	260	None	None	None	None	Green		Slightly Turbid		
S2	11/27/23	09:55	200	60	24	None	None	None	None	Green		Slightly Turbid		
DSB5	11/27/23	08:22	100	60	82	None	None	None	None	Green		Slightly Turbid	Flowing	
S3	11/27/23	09:22	20	<20	22	None	None	None	None	Green		Slightly Turbid		
DSB4	11/27/23	09:18	60	20	6	None	None	None	None	Green		Slightly Turbid		
S5	11/27/23	09:37	40	<20	6	None	None	None	None	Green	62	Slightly Turbid		
DSB1	11/27/23	09:34	20	<20	4	None	None	None	None	Green		Slightly Turbid		
SJC1	11/27/23	08:52	200	<100	40	None	None	None	None	Brown		Slightly Turbid	Flowing	

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

## San Juan Creek Ocean Outfall

### Unified Beach Water Quality Monitoring Stations

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

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

MONITORING REPORT

Offshore

South Orange County Wastewater Authority

DISCHARGE: San Juan Creek Ocean Outfall

Report For: November 2023

Report Frequency: Monthly

Report Due: January 1, 2024

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 06:04

Station No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Enterococcus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris	
A-1	Surface	11/08/23	10	2	6	810	0	0	0 - None
A-1	Mid depth	11/08/23	230	80	50				1 - Mild
A-2	Surface	11/08/23	8	4	<2	817	0	0	2 - Moderate
A-2	Mid depth	11/08/23	20	20	<10				3 - Severe
A-3	Surface	11/08/23	2	2	<2	824	0	0	
A-3	Mid depth	11/08/23	<10	<10	<10				
A-4	Surface	11/08/23	4	<2	<2	838	0	0	
A-4	Mid depth	11/08/23	90	30	10				
A-5	Surface	11/08/23	4	2	2	832	0	0	
A-5	Mid depth	11/08/23	560	420	80				
B-1	Surface	11/08/23	4	4	<2	755	0	0	
B-1	Mid depth	11/08/23	30	<10	<10				
B-2	Surface	11/08/23	10	<2	<2	846	0	0	
B-2	Mid depth	11/08/23	90	10	<10				
N1	Surface	11/08/23	10	2	<2	743	0	0	
N2	Surface	11/08/23	2	<2	<2	738	0	0	
N3	Surface	11/08/23	10	2	6	735	0	0	
N4	Surface	11/08/23	6	2	10	728	0	0	
N5	Surface	11/08/23	4	2	2	722	0	0	
N6	Surface	11/08/23	30	2	<2	715	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.

Receiving Water Limitations: (1)30-Day geometric mean of fecal coliform density not to exceed 200CFU/100 mL

calculated based on the five most recent samples from each site (2)single sample max not to exceed 400 CFU/100mL

(3) Enterococcus 6-week rolling geometric mean not to exceed 30 CFU/100 mL, calculated weekly. (4) Statistical threshold value (STV)

of 110 CFU/100 mL for enterococcus not to be exceeded by more than 10% of samples collected in a calendar month, calculated in a static manner

## Waste Discharge Requirement Order 97 - 52

Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
TCWD - RRWRP	1/3/2023	TDS	12 month	mg/L	1000	1078	
SOCWA - RTP	1/9/2023	TDS	12-Month	mg/L	1000	1274	
SOCWA - RTP	1/9/2023	TDS	Daily Maximum	mg/L	1100	1230	
SOCWA - RTP	1/9/2023	Manganese	12-Month	mg/L	0.05	0.100	
SOCWA - CTP	1/9/2023	Manganese	12-Month	mg/L	0.05	0.130	
MNWD - 3A	1/9/2023	TDS	12-Month	mg/L	1000	1169	
MNWD - 3A	1/9/2023	TDS	Daily Maximum	mg/L	1100	1230	
MNWD - 3A	1/9/2023	Manganese	12-Month	mg/L	0.05	0.08	
TCWD - RRWRP	2/7/2023	TDS	12 month	mg/L	1000	1170	
SOCWA - RTP	2/2/2023	TDS	12-Month	mg/L	1000	1086	
SOCWA - RTP	2/2/2023	TDS	Daily Maximum	mg/L	1100	1390	
SOCWA - RTP	2/2/2023	Manganese	12-Month	mg/L	0.05	0.110	
SOCWA - CTP	2/2/2023	Manganese	12-Month	mg/L	0.05	0.080	
TCWD - RRWRP	3/7/2023	TDS	12 month	mg/L	1000	1083	
SOCWA - RTP	3/2/2023	TDS	12-Month	mg/L	1000	1307	
SOCWA - RTP	3/2/2023	TDS	Daily Maximum	mg/L	1100	1480	
SOCWA - RTP	3/2/2023	Manganese	12-Month	mg/L	0.05	0.110	
SOCWA - CTP	3/2/2023	Manganese	12-Month	mg/L	0.05	0.080	
TCWD - RRWRP	4/4/2023	TDS	12 month	mg/L	1000	1092	
TCWD - RRWRP	4/4/2023	TDS	Daily Maximum	mg/L	1100	1130	
SOCWA - RTP	4/21/2023	TDS	12-Month	mg/L	1000	1325	
SOCWA - RTP	4/21/2023	TDS	Daily Maximum	mg/L	1100	1490	
SOCWA - RTP	4/21/2023	Manganese	12-Month	mg/L	0.05	0.120	
SOCWA - CTP	4/12/2023	Manganese	12-Month	mg/L	0.05	0.080	
MNWD - 3A	4/21/2023	TDS	12-Month	mg/L	1000	1159	
MNWD - 3A	4/21/2023	TDS	Daily Maximum	mg/L	1100	1120	
MNWD - 3A	4/21/2023	Manganese	12-Month	mg/L	0.05	0.08	



Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
TCWD - RRWRP	5/2/2023	TDS	12 month	mg/L	1000	1083	
MNWD - RTP	5/9/2023	TDS	12-Month	mg/L	1000	1313	
MNWD - RTP	5/9/2023	TDS	Daily Maximum	mg/L	1100	1160	
MNWD - RTP	5/9/2023	Manganese	12-Month	mg/L	0.05	0.120	
SOCWA - CTP	5/9/2023	Manganese	12-Month	mg/L	0.05	0.080	
MNWD - 3A	5/3/2023	TDS	12-Month	mg/L	1000	1138	
MNWD - 3A	5/3/2023	Manganese	12-Month	mg/L	0.05	0.09	
TCWD - RRWRP	6/6/2023	TDS	12 month	mg/L	1000	1062	
MNWD - RTP	6/6/2023	TDS	12-Month	mg/L	1000	1130	
MNWD - RTP	6/6/2023	TDS	Daily Maximum	mg/L	1100	1302	
MNWD - RTP	6/6/2023	Manganese	12-Month	mg/L	0.05	0.120	
SOCWA - CTP	6/6/2023	Manganese	12-Month	mg/L	0.05	0.080	
MNWD - 3A	6/5/2023	TDS	12-Month	mg/L	1000	1140	
MNWD - 3A	6/5/2023	TDS	Daily Maximum	mg/L	1100	1180	
MNWD - 3A	6/5/2023	Manganese	12-Month	mg/L	0.05	0.08	
TCWD - RRWRP	7/6/2023	TDS	12 month	mg/L	1000	1049	
MNWD - RTP	7/2/2023	TDS	12-Month	mg/L	1000	1286	
MNWD - RTP	7/2/2023	Manganese	12-Month	mg/L	0.05	0.130	
MNWD - RTP	7/2/2023	Manganese	12-Month	mg/L	0.05	0.080	
MNWD - 3A	7/20/2023	TDS	12-Month	mg/L	1000	1135	
MNWD - 3A	7/20/2023	Manganese	12-Month	mg/L	0.05	0.09	
TCWD - RRWRP	8/1/2023	TDS	12 month	mg/L	1000	1038	
MNWD - RTP	8/15/2023	TDS	12-Month	mg/L	1000	1275	
MNWD - RTP	8/15/2023	Manganese	12-Month	mg/L	0.05	0.090	
SOCWA - CTP	8/15/2023	Manganese	12-Month	mg/L	0.05	0.08	
MNWD - 3A	8/7/2023	TDS	12-Month	mg/L	1000	1115	
MNWD - 3A	8/7/2023	Manganese	12-Month	mg/L	0.05	0.12	

Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
TCWD - RRWRP	9/5/2023	TDS	12 month	mg/L	1000	1036	
MNWD - RTP	9/5/2023	TDS	12-Month	mg/L	1000	1267	
MNWD - RTP	9/5/2023	Manganese	12-Month	mg/L	0.05	0.120	
SOCWA - CTP	9/23/2023	Manganese	12-Month	mg/L	0.05	0.08	
MNWD - 3A	9/5/2023	TDS	12-Month	mg/L	1000	1099	
MNWD - 3A	9/5/2023	Manganese	12-Month	mg/L	0.05	0.12	
TCWD - RRWRP	10/3/2023	TDS	12 month	mg/L	1000	1017	
MNWD - RTP	10/2/2023	TDS	12-Month	mg/L	1000	1262	
MNWD - RTP	10/2/2023	Manganese	12-Month	mg/L	0.05	0.130	
SOCWA - CTP	10/10/2023	Manganese	12-Month	mg/L	0.05	0.08	
MNWD - 3A	10/2/2023	TDS	12-Month	mg/L	1000	1103	
MNWD - 3A	10/2/2023	Manganese	12-Month	mg/L	0.05	0.09	
TCWD - RRWRP	11/7/2023	TDS	12 month	mg/L	1000	1022	
TCWD - RRWRP	11/7/2023	TDS	Daily Maximum	mg/L	1100	1150	
MNWD - RTP	11/2/2023	TDS	12 month	mg/L	1000	1263	
MNWD - RTP	11/2/2023	TDS	Daily Maximum	mg/L	1100	1270	
MNWD - RTP	11/2/2023	Manganese	12-Month	mg/L	0.05	0.100	
SOCWA - CTP	11/2/2023	Manganese	12-Month	mg/L	0.05	0.10	
MNWD - 3A	10/5/2023	TDS	12-Month	mg/L	1000	1094	Offline
MNWD - 3A	10/5/2023	Manganese	12-Month	mg/L	0.05	0.11	Offline

# Recycled Water Report

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending: Nov 30, 2023

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	1022.00		819.00	876.00	1094.00	1263.00	1055.00
Chloride	mg/L	375	228.00		211.00	235.00	213.00	264.00	268.00
Sulfate	mg/L	400	365.00		202.00	198.00	333.00	358.00	308.00
Sodium	mg/L	None	53.00		150.00	173.00		185.00	170.00
Alkalinity	mg/L	None	-	-	-	-		277.00	203.00
Adjusted SAR	Ratio	None	3.95		4.61	5.61	3.30	3.95	4.20
Iron	mg/L	0.3	.02		.07	.02	.17	.21	.13
Manganese	mg/L	0.05	.00		.04	.01	0.09	.13	.08
MBAS	mg/L	0.5	ND		ND	ND	<0.03	<0.08	<0.08
Boron	mg/L	0.75	.31		.28	.27	.33	.39	.33
Fluoride	mg/L	None	.64		.70	.87	.71	.85	.84
Total Organic Carbon	mg/L	None	6.10		10.40	6.90	2.30	10.20	7.40

\*\*\* 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)  
2023

Agency	Facility or Region	Jan '23	Feb '23	Mar '23	Apr '23	May '23	Jun '23	Jul '23	Aug '23	Sep '23	Oct '23	Nov '23	Dec '23	Annual Totals
CSJC 1	3-A Plant/MNWD	.00	.00	-1.79	-8.63	.00	.00	.00	.00	.00	.00	.00		-10.42
CSJC 2	Chiquita/SMWD	.29	4.74	.71	25.98	35.03	47.21	52.09	41.00	37.92	32.20	3.87		281.04
CSJC 3	Non-Domestic Wel	10.40	27.80	5.70	11.90	20.08	19.50	53.65	37.73	30.00	32.50	42.66		291.92
ETWD	Region 8	16.43	40.04	12.22	89.54	99.75	147.99	240.39	179.40	151.54	124.58	103.61		1205.48
IRWD														
4	IRWD - 8	21.73	53.01	10.23	48.46	96.69	119.50	189.89	189.89	187.63	141.18	122.41		1180.61
4	IRWD - 9	8.13	22.80	2.69	29.28	44.09	51.61	79.05	79.05	74.93	53.15	58.68		503.47
SCWD	SOCWA CTP	5.64	44.41	9.09	40.22	59.37	65.93	82.77	107.40	33.73	49.09	68.99		566.64
MNWD	JRP	174.19	247.35	149.73	297.08	407.52	309.19	568.27	474.36	446.09	381.46	321.19		3776.43
	3-A Plant	130.47	6.55	.00	57.46	148.14	146.82	146.43	133.23	132.73	114.10	.00		1015.92
5	CTP	1.07	4.00	.00	.00	-32.42	-38.93	-30.03	4.43	-39.92	-6.34	8.77		-129.36
SMWD	Oso Creek													
	Chiquita	546.20	452.32	555.10	489.33	498.88	494.18	496.02	512.11	487.62	498.02	494.67		5524.45
	Nichols	1.50	1.35	1.52	1.34	1.47	1.52	1.90	2.15	1.88	1.55	1.38		17.56
TCWD	RRWRP	56.19	37.03	34.85	28.41	39.18	27.57	40.74	43.35	38.05	40.59	34.26		420.22
TOTALS		972.24	941.41	780.04	1110.37	1417.78	1392.09	1921.17	1804.09	1582.20	1462.07	1260.49		14643.95

- 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

# 5.D.

**Legal Counsel Review:** No

**Meeting Date:** January 11, 2024

**TO:** Board of Directors

**FROM:** Jim Burror, Acting General Manager/Director of Operations

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

**SUBJECT:** Monthly Pretreatment Report – December 2023  
San Juan Creek Ocean Outfall  
NPDES Permit #CA0107417 Order # R9-2022-0005  
Aliso Creek Ocean Outfall  
NPDES Permit #CA0107611 Order # R9-2022-0006

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## Summary of Program Activities

SOCWA Staff is starting to receive and review 2023 annual influent/effluent sampling result data for eight treatment plants including SOCWA (JBL, CTP, RTP), SMWD (Chiquita), MNWD (3A), CSC, IRWD (Los Alisos) and ETWD. The data will be entered into the Water Information Management Solution (WIMS) database so it may be uploaded electronically to the State CA Integrated Water Quality System (CIWQS) database. Staff are also working on completing the narrative portion of the 2023 SOCWA Annual Pretreatment report. The final report is due to the SDRWQCB by the due date of March 1, 2024.

## 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:

SCWD – NSWD Permit No. SCWD-N4-011 – OC Public Works Poche Beach – Renewal NSWD Permit to continue to allow backwash wastewater from the treatment system to be discharged to the sewer. The current permit expired October 1, 2023. SOCWA Staff are waiting to receive a renewal permit application from County Staff and SCWD Staff are working on an Amendment to the existing Agreement between OC and SCWD to extend the Agreement dates. Once all is finalized, a renewal permit may be issued. County Staff confirmed that the treatment system was shut down and remains off unless special written approval is granted.

SMWD – Applied Medical – Similar to last year, staff issued a BMP letter on December 13, 2023, granting permission to drain to the sewer a one-time system flush as part of annual maintenance for two areas of the Cogen system located at 30200 Avenida de las Banderas in Rancho Santa Margarita. The discharges occurred over three days (December 18<sup>th</sup>-20<sup>th</sup>) and were capped at 3,600 gpd and 100 gpm. The BMP letter requires flow and pH records to be kept for a minimum of three years and made available upon request. Further, SOCWA staff reviewed and have copy of the SDS records associated with chemicals used to maintain the closed-loop system.

### Trainings and Committee Meetings Attended

On December 11, 2023, Staff listened in on an NPDES Technical Assistance Webinar: *Strategies for Small POTWs Handling High Strength Influent*.

Staff attended the annual Clean Water SoCal Board of Directors meeting on December 14, 2023. Staff is acting as co-chair of the pretreatment committee and gave updated related to PFAS regulations.

### Inspections

CSC - On November 30, 2023, Staff performed an annual inspection of Reynard. Reynard has a new Facility Manager which Staff met with to discuss permit provisions and a reduction in monitoring efforts for pollutants with an established compliance history of non-detect.

### Enforcement

SMWD - On December 18, 2023, Staff issued a warning notice of non-compliance (WNON) to the Applied Medical facility located at 23061 Arroyo Vista, Rancho Santa Margarita, CA 92688, WD Permit No. SMWD-1-009, for eight recorded out of range pH readings associated with the last batch discharge (third shift) on eight different days. All other readings on the same days were within acceptable range. It is SOCWA's understanding that the "out of range" measurements are incorrect due to a new employee who was not trained to correctly use the pH meter and has asked facility Staff to develop written procedures to ensure all new employees are trained properly to use and record pH measurements. SOCWA considers this enforcement resolved.

CSC – As of December 21, 2023, Staff has not yet received the November 2023 SMR from Flavorchem, due by the 20<sup>th</sup> of each month, and expects to issue a WNON for late reporting.

IRWD – On December 21, 2023, Staff issued a WNON to Beacon Bay, SWD Permit No. IRWD-4-001, for failing to provide an ink-signed SMR.

### Summary of IWS Activities in SOCWA's Service Area - YTD through December 21, 2023

MA IUs	Events	Permits	NIWD	BMPs	FSEs	OSEs	DSEs	Closed	Enforcement	Total IUs
CLB (S)	0	3	2	5	8	110	15	0	0	143
CSC (S)	3	10	35	18	181	1265	37	1	2	1546
CSJC (S)	41	0	27	59	142	1690	28	11	0	1946
ETWD (M)	0	3	88	0	262	131	50	0	0	487
EBSD (U)	0	1	0	0	0	0	0	0	0	1
IRWD (S)	2	4	51	21	63	915	18	0	0	1072
MNWD (S)	117	6	120	38	646	2136	150	27	1	3096
SMWD (S)	53	10	19	20	214	835	52	10	2	1150
SCWD (S)	0	7	33	7	148	186	15	0	0	397
TCWD (S)	2	0	11	0	7	33	2	0	0	51
SOCWA (S)	0	5	1	0	0	0		0	1	6
<b>Totals</b>	<b>218</b>	<b>49</b>	<b>387</b>	<b>168</b>	<b>1671</b>	<b>7301</b>	<b>367</b>	<b>49</b>	<b>6</b>	<b>9895</b>

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

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

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



# Agenda Item

# 5.E.

**Board of Directors Meeting**

**Meeting Date:** January 11, 2024

**TO:** Board of Directors

**FROM:** Jim Burror, Acting General Manager/Director of Operations

**STAFF CONTACTS:** Roni Grant, Associate Engineer

**SUBJECT:** Capital Improvement Program Status Report (December)

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The status of the SOCWA Capital Improvement Program is presented in the tables on the following pages. Below are updates for the previous month for the major construction projects currently underway at SOCWA facilities.

## **J.B. Latham Package B**

*Plant 1 Basin Repairs, DAF Rehabilitation, Energy Building Seismic Retrofit, and Minor Rehabilitation of Digester 4:*

The project is complete, and Staff continues to work with the Construction Management team to close out all outstanding items.

## **J.B. Latham Centrate Line Upgrades**

*Replacement of valves and piping in the centrate system located in the Dewatering Building.*

The notice to proceed (NTP) has been issued to SS Mechanical. Staff is working with the contractor to start procuring valves and piping for this project.

## **Coastal Treatment Plant Diffusers Upgrades**

*Replacement of diffusers and air headers in the aeration basins.*

The NTP has been issued to Filanc. Staff is working with the contractor to start the project in 2024.

## **Aliso Creek Ocean Outfall Internal Seal Replacement**

*Replacement of five seals inside the outfall and installation of a flow meter.*

The project is complete. Staff appreciates all the support and assistance from the impacting agencies.

**Recommended Action:** Information Item.

SOCWA CIP Workplan

Project Number	Project Name	FY 24 Budget	Status	FY 2023/2024				FY 2024/2025			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b>PC 2 - J.B. Latham Treatment Plant</b>											
3220/3231/3287	Facility Improvements B	\$ 2,400,000	Construction complete								
32234L	Chlorine Contact Basin Isolation Gates and Structural Rehab	\$ -			D	D	B&A	C			
32231C	Process Water Repiping	\$ -		P	P	P					
3216/32225S	Energy Building Upgrades	\$ -			D	D	D				
3252	MCC M and G Replacement	\$ 1,000,000	Design underway	D	D	B&A	B&A	B&A	C	C	C
3234	Centrate Piping Reconstruction	\$ 150,000	Design underway	D	B&A	C	C	C	C		
32226L	Effluent Pump Station Upgrades	\$ 200,000	NTP has been issued		D	D	B&A	C	C	C	C
32233S	Scum Line Replacement	\$ 125,000			D	B&A	C	C			
32244S	Digester Gas and Flare Piping Improvements	\$ 75,000				P	P	D	D	D	D
32243L	Plant 2 Headworks Rehabilitation	\$ 200,000				D	D	D	D	B&A	C
32244L	Plant 2 Primary Clarifier Condition Assessment	\$ 50,000						CA			
32243C	SCADA Server Replacement	\$ 200,000									
<b>PC 5 - San Juan Creek Ocean Outfall</b>											
36241O	SJCOO Outfall Ballast Repairs	\$ 250,000			P	B&A	C	C			
<b>PC 15 - Coastal Treatment Plant</b>											
3541	Export Sludge Environmental Mitigation	\$ -	Mitigation work ongoing	ENV	ENV	ENV	ENV	ENV	ENV	ENV	ENV
35228L	Aeration Diffuser Replacement	\$ 1,250,000	NTP has been issued	B&A	C	C	C				
3525	Personnel Building Reconstruction	\$ 400,000	Design underway	D	D	B&A	C	C			
35221L	Auxiliary Blower Building Roof	\$ 50,000		69	B&A	C	C				
3522AL	Drainage Pump Station	\$ 200,000	Conceptual design underway	D	D	D	D	D	D	B&A	C
35235L	Odor Control Scrubber Improvements	\$ 100,000			D	D	D				
35245L	Aeration Deck Grating Replacement	\$ 50,000			D	D	B&A	C	C		
35246L	West Primary Sludge Skimmers and Launderers/Weirs	\$ 150,000			D	D	D	B&A	C	C	C
35247L	Aeration Blower System Upgrades	\$ 75,000			P	P					
35248L	AWMA Road Repairs	\$ 200,000			P	B&A	C	C			
35249L	SCADA Server Replacement	\$ 200,000									

SOCWA CIP Workplan

Project Number	Project Name	FY 24 Budget	Status	FY 2023/2024				FY 2024/2025			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b>PC 17 - Regional Treatment Plant</b>											
3742	Aeration System Upgrades	\$ -			P	P					
37241L	Grit/Primary Grating/Gate Replacement	\$ 150,000			D	B&A	C	C	C		
37242L	Aeration Influent/Effluent Gate Replacement	\$ 100,000			D	D	B&A	C	C	C	
37244C	MCC Replacement/Power System Improvements	\$ 200,000			P	D	D	D	D	D	D
37245S	Digester Gas System Improvements	\$ 200,000				D	D	D	B&A	C	C
37246S	Digester 1 Piping Replacement	\$ 250,000				D	D	D	B&A	C	C
37247S	Odor Scrubber 1 Replacement	\$ 15,000					P	P			
37243C	SCADA Server Replacement	\$ 200,000									
<b>PC 21 - Effluent Transmission Main</b>											
3105/3106	Air Valve Replacement (D&E)	\$ 75,000	Design underway	D	D	D	B&A	C			
3101	Trail Bridge Crossing (D)	\$ 150,000	Planning/design underway	P	P	D	D	B&A			
<b>PC 24 - Aliso Creek Ocean Outfall</b>											
3480	Internal Seal Replacement	\$ 250,000	Construction complete	C	C						
34241O	ACOO Outfall Ballast Repairs	\$ 250,000			P	B&A	C	C			

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

*Note: Projects with zero budget had funds collected in a prior fiscal year.*

# Agenda Item

# 5.F.

**Board of Directors Meeting**

**Meeting Date:** January 11, 2024

**TO:** Board of Directors

**FROM:** Jim Burror, Acting General Manager/Director of Operations

**STAFF CONTACTS:** Roni Grant, Associate Engineer

**SUBJECT:** Capital Improvement Construction Projects Progress and Change Order Report (*December*) [Project Committee Nos. 2, 15, and 24]

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## Overview

This agenda item provides an update on projects in construction, including any change orders. Attached are the updated CIP reports.

## Project Updates

### JBL Package B

The project is complete, and Staff continues to work with the Construction Management team to close out all outstanding items. This is the final construction report for JBL Package B.

### JBL Centrate Line Upgrades

The notice to proceed (NTP) has been issued to SS Mechanical. Staff is working with the contractor to start procuring valves and piping for this project.

### CTP Diffusers Replacement

The NTP has been issued to Filanc. Staff is working with the contractor to start the project in 2024.

### ACOO Internal Seal Replacement

The project is complete. Staff appreciates all the support and assistance from the impacting agencies.

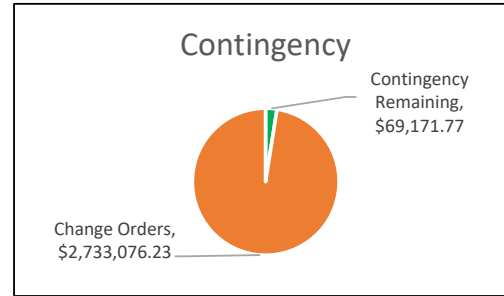
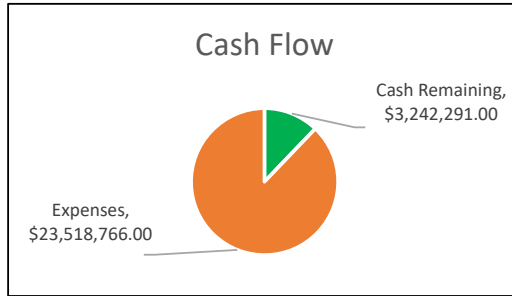
**Recommended Action:** Information Item.

**Project Financial Status**

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

**Data Last Updated**

December 7, 2023



**Cash Flow**

Collected	\$ 26,761,057.00
Expenses	\$ 23,518,766.00

**Project Completion**

Schedule	100%
Budget	99%

**Contracts**

Company	PO No.	Original	Change Orders	Amendments	Total	Invoiced
Olsson	13497	\$ 17,325,000.00	\$ 1,784,746.58		\$ 19,109,746.58	\$ 19,109,746.58
Butier	13647	\$ 895,727.00		\$ 1,005,251.00	\$ 1,900,978.00	\$ 1,900,978.00
Carollo	13616	\$ 846,528.00		\$ 616,037.00	\$ 1,462,565.00	\$ 1,396,904.66
TetraTech	13605	\$ 94,000.00		\$ -	\$ 94,000.00	\$ 93,884.70
Ninyo & Moore	14279	\$ 49,399.00		\$ 30,000.00	\$ 79,399.00	\$ 50,166.27
ADS Environmental	16452	\$ 107,200.00	\$ -		\$ 107,200.00	\$ 61,875.00
Dudek	17401	\$ 48,360.00		\$ -	\$ 48,360.00	\$ 42,160.00
		<b>\$ 19,366,214.00</b>	<b>\$ 1,784,746.58</b>	<b>\$ 1,651,288.00</b>	<b>\$ 22,802,248.58</b>	<b>\$ 22,655,715.21</b>

**Contingency**

Area	Project Code	Amount **	Change Orders^	Total Remaining	Percent Used
Liquids	3220-000	\$ 1,219,679.00	\$ 1,194,892.44	\$ 24,786.56	98.0%
Common	3231-000	\$ 38,120.00	\$ 9,842.77	\$ 28,277.23	25.8%
Solids	3287-000	\$ 1,544,449.00	\$ 1,528,341.02	\$ 16,107.98	99.0%
		<b>\$ 2,802,248.00</b>	<b>\$ 2,733,076.23</b>	<b>\$ 69,171.77</b>	<b>97.5%</b>

\*\* Amount reflects contingency for Construction Contracts only

Change Order No	MNWD	SCWD	SMWD	\$ Amount
<b>Grand Total</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>	<b>\$0.00</b>

**Change Orders and Amendments**

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
<b>Approved by Board of Directors (Amendments)</b>					<b>191</b>	<b>\$ 1,801,461.47</b>
1	Olsson	3287-000	Addition of Loop Piping to the Existing Hot Water Lines Adjacent to Digester 3	12/12/2019	0	\$ 4,725.00
2	Olsson	3287-000	Asbestos Gaskets in Boiler hazardous disposal	6/4/2020	0	\$ 6,343.10
3	Olsson	3287-000	Add Analog Infrastructure and Cabling	6/4/2020	11	\$ 37,969.60
4	Olsson	3287-000	Digester 4 Coating Additional Sealant	6/4/2020	3	\$ 24,001.54
5	Olsson	3220-000	Valve Handwheel Ergonomic extension	8/6/2020	28	\$ 16,370.30
6	Olsson	3287-000	Change to DeZurik Plug Valves to match existing	8/6/2020	90	\$ 41,993.87
7	Olsson	3287-000	Digester 4 Additional Concrete Repair	8/6/2020	3	\$ 7,412.74
8	Olsson	3287-000	Repair Existing Damaged Electrical Box	8/6/2020	0	\$ (1,829.00)
9	Olsson	3220-000	Change the Telescoping Valve Boxes and Piping from Carbon Steel to Stainless Steel	8/6/2020	0	\$ 18,677.63
10	Olsson	3287-000	Duct bank J Interferences	12/17/2020	18	\$ 73,639.42
11	Olsson	3220-000	Blasting of Existing Influent Pipe Spools	12/17/2020	5	\$ 20,868.52
12	Olsson	3220-000	Duct bank K Interferences	12/17/2020	0	\$ 15,567.08

13	Olsson	3287-000	Digester 3/4 PLC Relocation	12/17/2020	14	\$ 41,367.51
14	Olsson	3287-000	Digester 4 Additional Tank Repair	12/17/2020	18	\$ 33,642.75
15	Olsson	3220-000	Duct bank O Interferences	12/17/2020	0	\$ 1,686.88
16	Olsson	3287-000	Digester 3/4 Control Building Roof Replacement	2/4/2021	0	\$ 42,780.00
17	Olsson	3287-000	MCC-D1 Modifications due to Change in Motor Size	5/6/2021	0	\$ 34,392.02
18	Olsson	3287-000	Integrator Additional Site Visits	5/6/2021	0	\$ 7,571.97
19	Olsson	3287-000	Multi-zone air conditioning unit in the Cogen MCC Room and Office	6/3/2021	0	\$ 29,417.20
20	Olsson	3220-000	Overhead Walkway Removal at Plant 1 Secondary Basins 5 through 9	6/3/2021	0	\$ 62,113.50
21	Olsson	3287-000	Cogeneration PLC Modifications and Integration	6/3/2021	0	\$ 42,922.67
22	Olsson	3220-000	Plant 1 Secondary Basins UV Rated Wear Strips	9/2/2021	0	\$ 28,965.33
23	Olsson	3287-000	MCC-F1 Design Change	9/2/2021		\$ 481,290.42
24	Olsson	3287-000	DAF 2 Investigation Work and Inspection Blast	10/7/2021		\$ 67,838.71
25	Olsson	3287-000	New Fiber Conduit in West Blower Building	10/7/2021		\$ 4,957.71
26	Olsson	3220-000	Plant 1 Primary Basin Conduit Obstruction	10/7/2021		\$ 8,444.20

27	Olsson	3220-000	Plant 1 Influent Channel Additional Coating between Primary Basins 5 and 6	10/7/2021		\$ 15,469.98
28	Olsson	3287-000	MCC-F1 Lighting Changes	10/7/2021		\$ 7,843.04
29	Olsson	3287-000	Digester 3 Ground Rod	10/14/2021		\$ 7,269.16
30	Olsson	3220-000	New Fiber Conduits at East Electrical and Storm Water Buildings	10/14/2021		\$ 8,045.43
31	Olsson	3220-000	Plant 2 Primary Influent Channel Repair Credit	12/9/2021		\$ (15,903.00)
32	Olsson	3220-000	Plant 1 and 2 Telescoping Valve Pipe Supports	12/9/2021		\$ 6,132.27
33	Olsson	3287-000	4" Gas Line Routing Modifications	12/9/2021		\$ 18,146.07
34	Olsson	3287-000	Gas Mixer Conduit Conflict	12/9/2021		\$ 12,383.89
35	Olsson	3220-000	P1 Primary Tanks 5 and 6 Temporary Power	3/10/2022		\$ 7,256.05
36	Olsson	3220-000	P1 Primary Tanks Skimmers Starter Modification	3/10/2022		\$ 45,374.13
37	Olsson	3220-000	P1 Primary Tanks Hopper Wall Coating	3/10/2022		\$ 34,505.41
38	Olsson	3220-000	P1 Effluent Channel Conduit Conflict	3/10/2022		\$ 9,274.98
39	Olsson	3220-000	P1 Primary Tanks Torque Limit Switch	3/10/2022		\$ 7,149.86
40	Olsson	3287-000	Multi-zone air conditioning unit in the Cogen MCC Room and Office	3/10/2022		\$ (2,309.09)
41	Olsson	3287-000	DAFT 2 Repair	3/10/2022		\$ 59,403.53
42	Olsson	3287-000	Digesters 1 and 2 Heat Exchanger Layout Reconfiguration Electrical	6/2/2022	1	\$ 12,885.18



43	Olsson	3287-000	Digester 3 Heat Exchanger Hot Water Loop Tie-In	6/2/2022		\$ 2,774.58
44	Olsson	3220-000	Plant 1 Primary Basin 1 Shutdown Repair Work	6/2/2022		\$ 1,009.86
45	Olsson	3287-000	Replace Compressor Line and Valve at Digester 4	6/2/2022		\$ 10,762.85
46	Olsson	3220-000	Plant 2 Influent Gates Removal and Concrete Demo	6/2/2022		\$ 5,389.66
47	Olsson	3287-000	DAFT 2 Launder Support Detail	6/9/2022		\$ 45,682.30
48	Olsson	3220-000	Plant 1 Primary Basins 1, 2, 5 and 6 Coating Removal	6/9/2022		\$ 111,101.16
49	Olsson	3220-000	Plant 1 Primary Basins 1, 2, 5 and 6 Existing Equipment Removal and Reinstallation	6/9/2022		\$ 71,864.17
50	Olsson	3287-000	Digester Mixing Pumps Control Programming Change	8/4/2022		\$ 4,397.77
51	Olsson	3220-000	Plant 1 Primary Basins Skimmers I/O Connection and Programming Change	8/4/2022		\$ 14,237.83
52	Olsson	3287-000	Fiber Patch Cables to Connect the Centrifuge PLC to the Centrifuge Patch Panel	8/4/2022		\$ 3,755.90
53	Olsson	3220-000	Plant 1 Primary Basins 3 and 4 Coating Removal	8/4/2022		\$ 43,222.24
54	Olsson	3220-000	Plant 1 Secondary Basins Concrete Structural and Basins 2 and 3 Drive Plate Rework	8/4/2022		\$ 20,860.16

55	Olsson	3220-000	Plant 2 Primary Basins Repair and Rehab of Head-Shaft Bearings	8/4/2022		\$ 4,618.44
56	Olsson	3231-000	Board SOCWA Front Office with Plywood to Cover Windows	8/4/2022		\$ 3,305.76
57	Olsson	3220-000	Seal the Openings at Plant 1 Primary Influent and Effluent Channels	8/4/2022		\$ 25,491.03
58	Olsson	3220-000	Plant 1 Primary Basins 3 and 4 Existing Equipment Removal and Reinstallation	9/1/2022		\$ 26,498.32
59	Olsson	3220-000	Plant 1 Secondary Basins Existing Embedded Metal Plates	9/1/2022		\$ 4,290.48
60	Olsson	3220-000	Plant 2 Primary Baffle Frame Replacement	9/1/2022		\$ 18,291.57
61	Olsson	3287-000	Digester hatch connection, temperature gauge adjustment, and potholing	11/3/2022		\$ 9,971.62
62	Olsson	3220-000	Plant 1 Primary and Secondary Basins crack injection, concrete repair, channel cleaning, solids removal	11/3/2022		\$ 146,734.55
63	Olsson	3287-000	Boiler Room Modifications	12/8/2022		\$ 14,797.83
64	Olsson	3287-000	DAFT 1 Repair	12/8/2022		\$ 66,992.33
65	Olsson	3220-000	Secondary Clarifier Telescoping Valve Modifications (Design Error)	12/8/2022		\$ 32,709.94
66	Olsson	3287-000	Digester Control Buildings Modifications	2/2/2023		\$ 9,746.81

67	Olsson	3220-000	Plant 1 and 2 Field Obstructions	2/2/2023		\$ 8,871.74
68	Olsson	3287-000	MCC-F1 Site Modifications	2/2/2023		\$ 57,233.12
69	Olsson	3287-000	DAFT and TWAS area additional slab modification and piping material change	2/2/2023		\$ 19,368.58
70	Olsson	3287-000	DAFT 1 Area Reconfiguration	3/2/2023		\$ 3,046.43
71	Olsson	3287-000	Digester 2 Hot Water Loop Change	3/2/2023		\$ 29,525.46
72	Olsson	3220-000	Plant 1 Seal Influent Channel Openings and Helical Drives Temporary Covers	4/6/2023		\$ 10,831.51
73	Olsson	3287-000	TWAS/DAFT Area Modifications	12/7/2023		\$ 67,278.13
74	Olsson	3287-000	Digester Area Ductbank Conflicts and Additional Work	12/7/2023		\$ 82,810.21
75	Olsson	3231-000	Lab Building Footing Demolition	12/7/2023		\$ 6,537.01
76	Olsson	3220-000	Plant 1 Additional Repair and Modification	12/7/2023		\$ 39,052.96
77	Olsson	3220-000	Plant 2 Additional Repair and Modification	12/7/2023		\$ 41,697.76
78	Olsson	3220-000	Aluminum Kickplate at Aeration Tanks	12/7/2023		\$ 57,928.56
79	Olsson	3220-000	Phase 1 Bypass Pumping	12/7/2023		\$ 79,117.65
80	Olsson	3220-000	Phases 2 and 3 Bypass Pumping	12/7/2023		\$ 108,456.05
Deduct-Common	Olsson	3231-000	Energy Building Monorail System Descope (F1-F4)	8/4/2022		\$ (70,585.34)
Deduct-Liquids	Olsson	3220-000	Effluent Pump Station Descope (A1-A6)	8/4/2022		\$ (483,605.73)

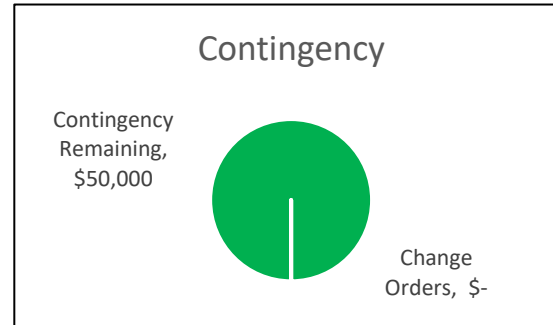
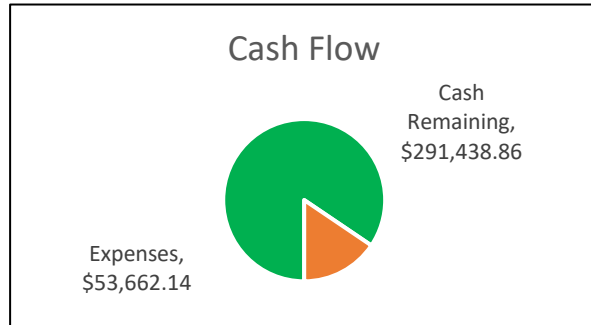
Deduct-Solids	Olsson	3287-000	Energy Building Modifications Desclope (G1-G2, & H1-H2)	8/4/2022		\$ (357,382.60)
HAL 01	Hallsten	3220-000	Cover Layout Modifications	8/4/2022		\$ 16,715.25
<b>Approved by Board of Directors (Amendments)</b>						<b>\$ 1,651,288.00</b>
1CM Common	Butier	3231-000	CM Change Order No. 1	7/13/2021		\$ 48,995.00
1CM Liquids	Butier	3220-000	CM Change Order No. 1	7/13/2021		\$ 294,125.00
1CM Solids	Butier	3287-000	CM Change Order No. 1	7/13/2021		\$ 269,595.00
1ESDC Common	Carollo	3231-000	ESDC Change Order No. 1	6/3/2021		\$ 18,210.00
1ESDC Liquids	Carollo	3220-000	ESDC Change Order No. 1	6/3/2021		\$ 109,256.00
1ESDC Solids	Carollo	3287-000	ESDC Change Order No. 1	6/3/2021		\$ 100,151.00
1G Common	Ninyo & Moore	3231-000	Geotechnical Services Change Order No. 1	2/3/2022		\$ 5,400.00
1G Liquids	Ninyo & Moore	3220-000	Geotechnical Services Change Order No. 1	2/3/2022		\$ 12,300.00
1G Solids	Ninyo & Moore	3287-000	Geotechnical Services Change Order No. 1	2/3/2022		\$ 12,300.00
2CM Liquids	Butier	3220-000	CM Change Order No 2	5/12/2022		\$ 196,268.00
2CM Solids	Butier	3287-000	CM Change Order No. 2	5/12/2022		\$ 196,268.00
2ESDC Common	Carollo	3231-000	ESDC Change Order No. 2	12/9/2021		\$ 11,075.00
2ESDC Liquids	Carollo	3220-000	ESDC Change Order No. 2	12/9/2021		\$ 196,440.00
2ESDC Solids	Carollo	3287-000	ESDC Change Order No. 2	12/9/2021		\$ 180,905.00
<b>Grand Total</b>					<b>191</b>	<b>\$ 3,452,749.47</b>

**Project Financial Status**

Project Committee	24
Project Name	Aliso Creek Ocean Outfall Internal Seal Replacement
Project Description	Replacing 5 seals on the interior of the outfall

**Data Last Updated**

December 7, 2023



**Cash Flow**

Collected	\$ 345,101.00
Expenses	\$ 53,662.14

**Project Completion**

Schedule	100%
Budget	87%

**Construction Contracts**

Company	PO No.	Original	Change Orders	Amendments	Total	Invoiced
J.F. Brennan	19185	\$ 261,753.00			\$ 261,753.00	\$ 261,753.00
Black & Veatch	18544	\$ 75,310.00			\$ 75,310.00	\$ 30,461.25
		<b>\$ 337,063.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 337,063.00</b>	<b>\$ 292,214.25</b>

**Construction Contingency**

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Outfall	3480-000	\$ 50,000.00	\$ -	\$ 50,000.00	0.0%
		<b>\$ 50,000.00</b>	<b>\$ -</b>	<b>\$ 50,000.00</b>	<b>0.0%</b>

# Agenda Item

# 6.A.

**Board of Directors Meeting**

**Meeting Date:** January 11, 2024

**TO:** Board of Directors

**FROM:** Jim Burror, Acting General Manager/Director of Operations

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

**SUBJECT:** Contract Award for MCC-M, Switchgear Circuit Breaker, and Portable Generator Connection Pre-Procurement [Project Committee 2]

## Overview

SOCWA staff is currently working on a project to replace MCC-M, switchgear circuit breaker, and adding a portable generator connection for the existing Magnum breaker at the J.B. Latham treatment plant (JBL) under Project 3252-000, MCC M and G Replacement. The lead time for the MCC and appurtenances is approximately 60 weeks.

SOCWA staff has been looking into pre-purchasing this and other equipment due to the reported long lead times. Pre-purchasing would allow SOCWA to coordinate the construction bidding with the equipment delivery date. This approach will reduce the contractor's schedule and reduces the contractor's overhead costs.

SOCWA staff solicited quotes through Sourcewell for MCC-M, switchgear circuit breaker, and portable generator connection. One quote was received from Pacific Parts & Controls, representing the manufacturer Eaton. The vendor for Square D was non-responsive at this point.

## Cost Analysis

The quote from Pacific Parts & Controls is \$222,850, including tax and freight. The engineer estimated \$350,000 for the MCC, portable generator connection, and switchgear circuit breaker. Staff requests a 20% contingency to cover other fees that might not be included in the quote. Table 1 shows the allocation of costs by member agency.

Table 1 – Cost Allocation by Member Agency

<b>Agency</b>	<b>Cost</b>
Moulton Niguel Water District	\$61,720
Santa Margarita Water District	\$128,576
South Coast Water District	\$77,124
Total	\$267,420

The FY23/24 budget for Project 3252-000 (MCC M and G Replacement) is \$1M, which was intended for pre-purchasing equipment.

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

This item was reviewed and discussed as an information item by the Engineering Committee on December 14, 2023.

**Recommended Action:** Staff recommends that the PC 2 Board of Directors approve the contract to Pacific Parts & Controls for a total of \$267,420, including a 20% contingency for the JBL MCC-M, switchgear circuit breaker, and portable generator connection pre-procurement.

**J.B. LATHAM TREATMENT PLANT MCC-M AND MCC-G REPLACEMENT PROJECT**  
**Quotation – Revision 2**

**ADDER FOR SC, AF, AND COORD. STUDY:** Available upon request

**ADDER FOR ACCEPTANCE TESTING/TRAINING:** Available upon request

Note that with power system short circuit and coordination studies and EESS site acceptance testing per EESS or NETA standard work scopes only, an extra year of warranty is provided by the factory to the customer at no extra cost.

**PLANS DATED:** May 2023 **Plan Sheets provided for this quotation:** E-Sheets

**ORDER MUST BE RELEASED FOR MANUFACTURE WITHIN 90 DAYS OF DATE OF ORDER ENTRY OR BE SUBJECT TO ESCALATION COSTS. DUE TO EXTENDED DELIVERY DATES, PRICING MAY NOT BE HELD CONSTANT BETWEEN ORDER RELEASE AND SHIPMENT. PRICING MAY BE ADJUSTED PRIOR TO SHIPMENT.**

**GENERAL COMMENTS, CLARIFICATIONS, SPECIAL CONDITIONS**

1. Eaton shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting thereof.
2. Cable terminations use mechanical type lugs, not compression type lugs, unless shown in the description of the equipment. Mechanical lugs will accept either copper or aluminum cables. Standard termination lugs are provided based on the ampacity of each circuit. Optional lugs are available that generally allow for the next larger standard cable size. Oversized lugs and/or additional quantities of parallel cables must be accommodated by the contractor's installation method (e.g. insulated cable splices in the equipment gutter, power terminal blocks, etc.) and are not part of this quotation.
3. Not included unless shown as a separate item within this bill of materials: safety switches, enclosed circuit breakers, starters meter sockets, spare parts / renewal parts and other miscellaneous equipment, 600 Volt or 250V fuses (others supplied only if noted specifically), extended warranty, seismic calculations, and selective coordination.
4. Dry type transformers (DOE 2016) - primary or secondary terminal lugs are not included. DTDI supplied with factory standard impedance and reactance levels unless shown otherwise.
5. Panels and switchboards- Eaton is not responsible for Title 24 design compliance unless Title 24 requirements are an integral part of the design. \*\*\* SPD and customer metering are only included where shown on single line or panel schedules. \*\*\*
6. Motor Control Centers – Overload heaters for motor starters are included in the price. However, these heaters will not be shipped until a verified list of full load amps or the specific heater sizes have been submitted to Eaton Electrical in writing
7. Eaton not responsible for Utility Meter Maximum center-line Height or CEC/NEC 6'-7" center of OCPD handle violation if the surface for electrical equipment supplied by Eaton – Enclosed Control, Fused or MCCB Switching Devices, Panelboards, Switchboards, LV Switchgear, MV Switchgear, etc.... – is installed on a surface more than 1" (i.e., housekeeping pads) above the level plane in front of the equipment as required by Utilities and NEC/CEC.
8. Order Entry- Eaton does not send utility approval drawings unless requested by customer. Customer to provide utility contact information. Lift gate truck requirement for switchboard delivery must be requested at or before time of order entry. Liquidated damages will not be accepted.
9. Defense Priorities & Allocations System (DPAS)- All prime contracts, subcontracts or purchase orders in support of an authorized program are given a priority rating. Eaton must be notified of the priority rating and ship date at time of bid.
10. The following (4) key elements must be referenced on the purchase order. If they are not, then the order is not considered compliant with 15 CFR Part 700.12 and will be rejected by Eaton.
  - Priority Rating
  - A required delivery date (on or about or asap will not do)
  - Manual or electronic signature from the customer (issuer of the purchase order)
  - A statement that reads in substance: "This is a rated order certified for national defense use, and you are required to follow all provisions of the Defense Priorities and Allocations System regulation (15 CFR 700)." (FAR 52.211-15)"

**PROJECT COMMENTS AND CLARIFICATIONS:**

1. Specification for the power breaker options is needed to provide an accurate part. In this BOM we have attempted to assume most the required functionality for the "Portable Generator Breaker".
2. The MCC is quoted as indoor NEMA1 Gasketed.





**Pricing:**

<u>Item</u>	<u>Price</u>	<u>Estimated Lead-Time</u>
MCC	\$123,151	Approval drawings: 8 weeks Lead-time: 60 weeks
Magnum Breaker-Generator Feed for existing Switchgear	\$31,249	30-34 weeks
Portable Generator Connection Switchboard (Option 1) and Kirk-Key provision for existing Magnum Breaker	\$34,795	Approval drawings: 2 weeks Lead-time: 50-60 weeks
Portable Generator Connection Switchboard w/2nd Section (Option 2) and Kirk-Key provision for existing Magnum Breaker	\$40,268	Approval drawings: 2 weeks Lead-time: 50-60 weeks
Site Acceptance Testing and Training (non-taxable labor)	\$13,095	
Prices above are plus tax, and include freight prepaid (FOB Source). Add 1 week to lead-times for transit time. Lead-time is after return of approved drawings, if required.		

**Notes:**

Eaton supplies the Key Interlock provisions only. The customer is responsible for the locks, which can be Kirk or Castell.

**Portable Generator Connection Switchboard**

- We are quoting two options because: From Eaton engineer: “while you can terminate into the top of this N3R switchboard section directly into the lugs of the breaker, it is tight when it comes to moving 2000 amps of cables around. So I would recommend a 2nd section, to keep everything underground.”

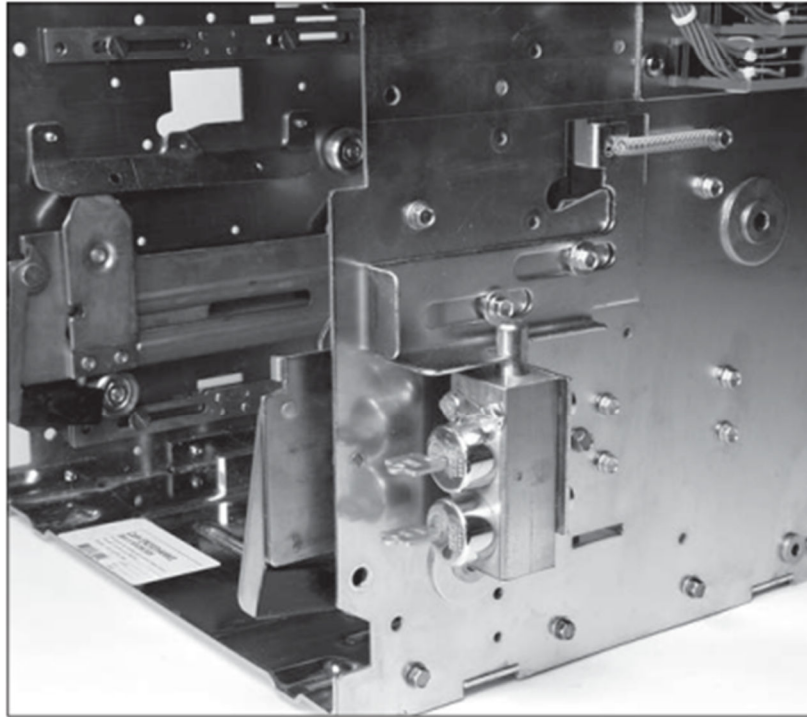
**Magnum Breaker-Generator Feed for existing Switchgear**

- For the Magnum breaker being added to the switchgear, that cell will need to be upgraded to accommodate the larger breaker. A cell upgrade kit is included in this quote. Note from Eaton: Any time we modify or replace a riser or cell components containing copper, we will send a new rating name plate for that section without a U.L. sticker. It is then up to the installing contractor to get a U.L. representative to come to the field and inspect modifications and issue a new U.L. sticker.
- Eaton Engineer recommends a 3-way interlocking key arrangement which requires a dual-key on the Magnum breaker being added to the switchgear for generator feed. Please see attached for details and pricing for this is included in this quote.

## Switchgear Magnum Breaker

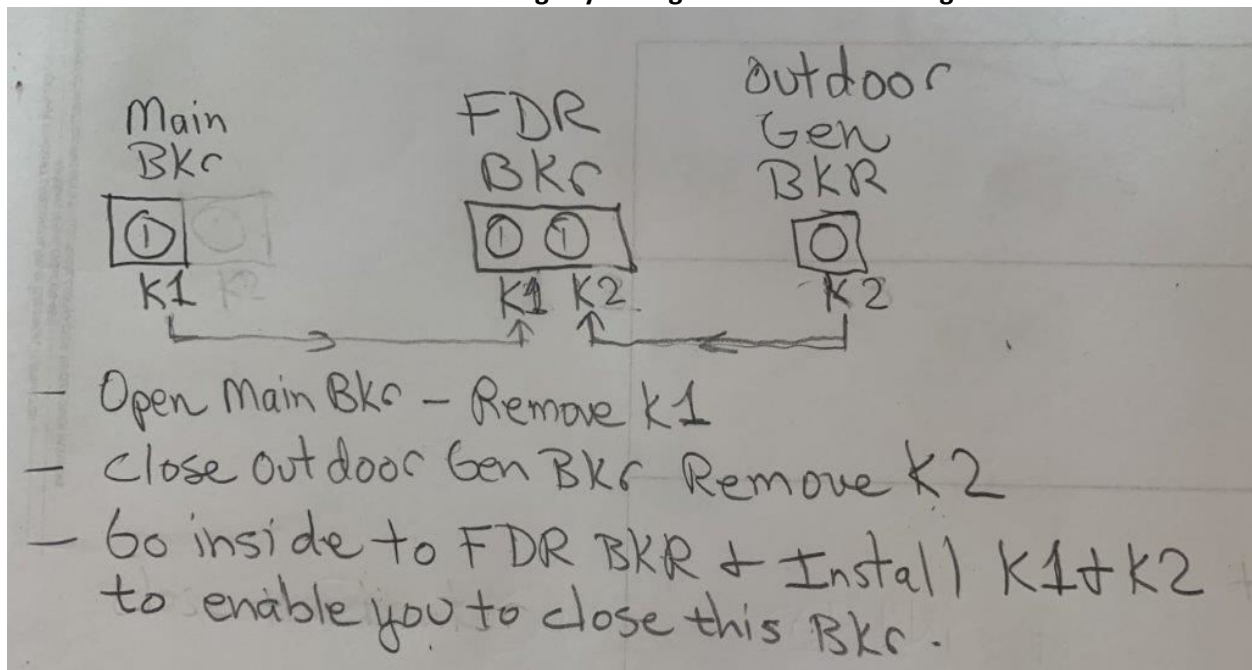
- **Cassette lock**

A cassette-mounted lock can be used in conjunction with different interlocking schemes, such as main-tie-main. The lock holds the breaker open in the CONNECTED position, preventing it from being closed. Up to three lock cylinders can be installed on one cassette. Eaton supplies the lock provisions only. The customer is responsible for the locks, which can be Kirk or Castell.



Cassette-mounted key lock

Recommend interlocking key arrangement from Eaton Engineer



**BILL OF MATERIAL:**

Item No.	Qty	Product	Description
	1	<b>Motor Control Center</b>	60 Hz, Class 1B wiring, 480V 3-Phase Service, 65,000 Bracing, 65 Short Circuit Rating, Top Incoming, NEMA 1 Gasketed 21" Front Mt Only enclosure, 600A Copper Main Horizontal Bus, No Neutral, Main Breaker. Used X-Space: 81, Blank X-Space: 15, Future X-Space: 0, MCC Lead Time Code: B.

**Designation** MCC-M

**Qty List of Materials**

- 3 HLD Main Bkr (350A trip), Lugs: 2-#400-500Kcmil
- 2 PXM2260 METER/DISPLAY 60HZ 5A 90-265V AC/DC
- 2 PXM2260
- 4 600V Potential transformer
- 6 600A Current transformer
- 4 FVNR Starter Size 1 [HMCP]
- 1 FVNR Starter Size 2 [HMCP]
- 3 FVNR Starter Size 4 [HMCP]
- 1 E125HCompact Bkr (15A trip)
- 1 E125HCompact Bkr (20A trip)
- 2 HFD Bkr (15A trip)
- 1 HFD Bkr (25A trip)
- 5 Size 1&2 FVNR-100VA Typical
- 11 Size 3&4 FVNR-150VA Typical
- 16 Size 1-4 Starter - Normally Closed
- 16 Size 1-4 Starter - Normally Open
- 8 1 Unit PB (Reset)
- 8 Red Run
- 8 Terminal Block - Latching Pull-Apart, Std.
- 8 2 Unit PB 10250T (Start/Stop)
- 8 Solid State Overload Relay (Standard C440)
- 32 D7 2P Relay
- 8 Wiremarkers at Each End
- 8 #16awg, MTW Control Wire
- 8 Additional X-Space
- 16 D15 On/Off Delay Timer
- 32 Amber Fault
- 16 3 Pos. Sel. Sw. (Hand-Off-Auto)
- 8 Pilot Light-PTT-10250T-LED (Stopped)
- 8 Pilot Light-PTT-10250T-LED (Run)
- 3 Key Interlock
- 16 Standard Trip
- 1 Thermal Magnetic Trip
- 8 Pilot Light-PTT-10250T-LED (Overload Trip)
- 1 30 Kva 3 ph, 440-480V / 120-208V High Efficiency Xfmr, 50A Pri., 110A Sec. Bkr.
- 1 PL1A Panelboard 225A 120/208V 3PH 4W 42 CKT
- 42 Pnlbd Bkr, BAB 1 Pole 20A bkr
- 2 250KA, SPD Standard + Surge Counter Features Package, with Circuit Breaker
- 1 12" Door
- 3 18" Door

<b>Qty</b>	<b>List of Materials</b>
4	6" Door
8	Tin Plated horizontal bus
8	600A Vertical Bus (Tin-plated cu)
8	Labyrinth, Isolated/Insulated vertical bus barrier with shutters
8	600A Horiz. Cu Gnd Bus, 1/4" x 2" Bar
8	65KA Bus Bracing
8	Fire Wall Barriers between each section
8	Bottom Vertical Bus Barrier
8	600A 50Deg C, Copper Frnt Mtd 21" NEMA 1 Gasketed

### Magnum Breaker-Generator Feed for existing Switchgear

Item No.	Qty	Product	Description
	1	Magnum Air Circuit Breaker	MDS3

**Catalog No** MDN6203XEA201GNMNNNNNNNFX

<b>Catalog No</b> MDN6203XEA201GNMNNNNNNNFX	<b>Qty</b> 1	<b>List of Materials</b> Breaker, MDN-620, 3 Poles, 2000 Amps, Drawout Current Sensors / Rating Plug, 2000 Trip Unit 1150 ARMS LSIG, 120-Vac Power Supply Trip Indicator NEUTRAL SENSOR 2000:1 DUAL KEY PROVISION No Lugs, provide by others CELL UPGRADE KIT to 2000A -- CELL 2A
--	-----------------	---

### Site Acceptance Testing and Training

Item No.	Qty	Product	Description
	1	EESS SAT	

A Coordination Study does not exist.

**Designation** Site Acceptance Testing & Training

<b>Qty</b>	<b>List of Materials</b>
1	1 Test Equipment Setup Locations
1	One (1) trip of one (1) working day during the installation and startup of the equipment. One (1) trip of one (1) working day two (2) months before the warranty expiration to identify any issues to be corrected under warranty. One (1) trip of one (1) working day to perform training as specified herein.

## MCC General Information

### MCC General Information

Wiring Diagram Type Eaton Standard  
 MCC Quantity  
 Standards UL845, NEMA, NEC  
 Special Codes UL  
 Service Voltage (3 Phase) 480  
 Frequency 60  
 System 3PH3W  
 Witness Testing No

Ind. Light Type  
 PL Color (On) Push to Test  
 PL Color (Off) Red  
 PL Color (O.L. Trip) Green  
 PL Color (Rev/Slow) Blue  
 Amber

### Enclosure Specifications

Total Structures 8  
 Type NEMA 1 Gasketed  
 Depth 21" Front Mt Only  
 Height 90"  
 Horizontal Wireways 9" High, Top & Bottom  
 Vertical Wireways 4"  
 Channel Sills No  
 Bottom Plates None  
 150 Watt Space Heaters No  
 Space Heater Thermostat No  
 Master Terminal Block Location None  
 IBC/CBC Seismic Qualified No  
 ABS Certified No

### Structure Schedule

There are 8 structure(s).  
 All structures have a 600 A vertical bus.  
 Total width of all sections is 164"  
 Height of all sections is 90"

### Unit Modifications

#16awg, MTW Control Wire  
 Wiremarkers at Each End  
 Solid State Overload Relay (Standard C440)  
 Terminal Block - Latching Pull-Apart, Std.

### Bus System Specifications

Main Bus Amps 600  
 Main Bus Material Copper  
 Main Bus Bar Plating Tin  
 Insulated Horiz. Bus No  
 1000A/sq in. Cu Bus No  
 Vertical Bus Amps See Structure Schedule  
 Vertical Bus Material Tin Plated Copper  
 Vertical Bus Barrier Labyrinth, Isolated/  
 Insulated with shutters  
 Bus Bracing 65,000  
 Ground Bus 600  
 Ground Bus Location Top  
 Ground Bus Lug Size 1-#6-350Kcmil  
 Ground Bus Lug Type Screw  
 Plug-in 300A Vert. Gnd. Bus No  
 Neutral None  
 Horizontal Bus Temperature Rise 50 deg C  
 Bottom Vert. Bus Barrier Yes  
 Vertical Ground Bus No

### Incoming Line Termination

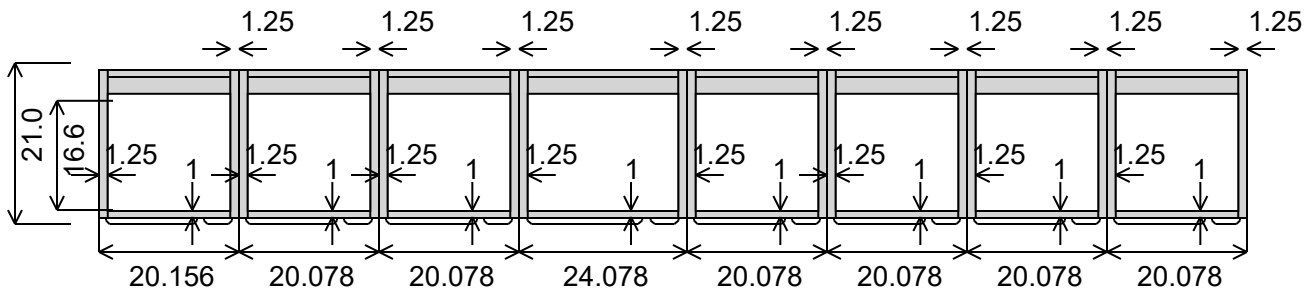
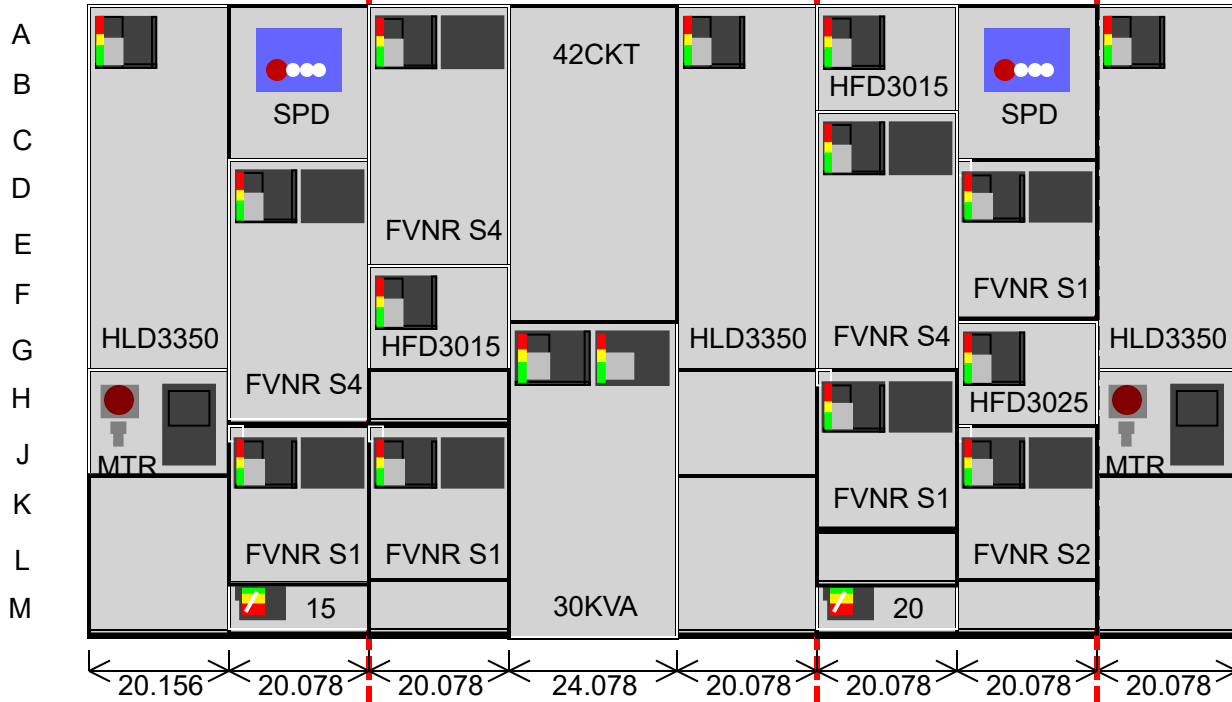
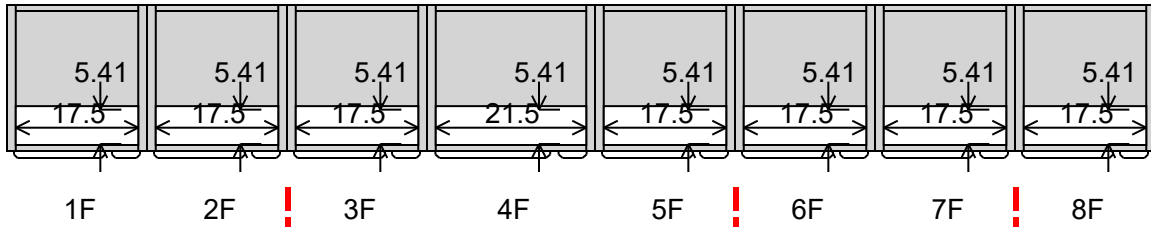
Device: HLD Main Bkr (350A trip), Lugs: 2-#400-500Kcmil  
 Cable Entry Top  
 Splice Kit / Transition None  
 MCC Type Match Up  
 MCC Type Match Up GO# \*\* None \*\*

### MCC Starter Specifications

Wiring Class 1B  
 Control Voltage 120  
 Control Voltage Src Ind CPT  
 Nameplate Size 1" X 2.5"  
 Nameplate Color Black / White Letters  
 Pilot Dev. Model 10250T

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	JASON D ALLINGTON	12/6/2023			
	APPROVED BY	DATE	JOB NAME	South Orange County Wastewater Authority JB Latham Trea MCC-M	
		DESIGNATION			
	VERSION	TYPE	DRAWING TYPE Customer Appr.		
	1.0.3.3	Freedom+ MCC			
NEG-ALT Number	REVISION	DWG SIZE	G.O.	ITEM	SHEET
LAED0917X0K2-0002		A			1 of 6

Top View



Floor View

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PREPARED BY JASON D ALLINGTON	DATE 12/6/2023	<b>Eaton</b> Fayetteville, NC	
APPROVED BY	DATE	JOB NAME South Orange County Wastewater Authority JB Latham Trea	DESIGNATION MCC-M
VERSION 1.0.3.3	TYPE Freedom+ MCC	DRAWING TYPE Customer Appr.	
NEG-ALT Number LAED0917X0K2-0002	REVISION	DWG SIZE A	G.O. ITEM SHEET 2 of 6

Unit	Nameplate	Description	Class	Starter Size HP/FLA Wire Diag.	Bkr/Sw Poles Trip/Clip	Unit Features
1G	SWGR-MA	HLD Main Bkr (350A trip), Lugs: 2-#400-#400-500Kcmil		NONE	HLD 3P 350	1 Thermal Magnetic Trip 1 Standard Trip 1 Key Interlock
1J		PXM2260		NONE		
1M		18" Door				
2C		250KA, SPD Standard + Surge Counter Features Package, with Circuit Breaker		NONE		
2H	MAIN-2 NPWP-2	FVNR Starter Size 4 [HMCP]	F206	4 60 NONE	HMCP 3P 150	2 Size 3&4 FVNR-150VA Typical 2 Size 1-4 Starter - Normally Open 2 Size 1-4 Starter - Normally Closed 2 3 Pos. Sel. Sw. (Hand-Off-Auto) 1 Pilot Light-PTT-10250T-LED (Run) 1 Pilot Light-PTT-10250T-LED (Stopped) 1 Pilot Light-PTT-10250T-LED (Overload Trip) 1 Additional X-Space 1 Standard Trip 1 Red Run 4 Amber Fault 1 1 Unit PB (Reset) 1 2 Unit PB 10250T (Start/Stop) 4 D7 2P Relay 2 D15 On/Off Delay Timer
2L	JOCKEY-1 NPWP-1	FVNR Starter Size 1 [HMCP]	F206	1 10 NONE	HMCP 3P 30	1 Size 1&2 FVNR-100VA Typical 1 Size 3&4 FVNR-150VA Typical 2 Size 1-4 Starter - Normally Open 2 Size 1-4 Starter - Normally Closed 2 3 Pos. Sel. Sw. (Hand-Off-Auto) 1 Pilot Light-PTT-10250T-LED (Run) 1 Pilot Light-PTT-10250T-LED (Stopped) 1 Pilot Light-PTT-10250T-LED (Overload Trip) 1 Additional X-Space 1 Standard Trip 1 Red Run 4 Amber Fault 1 1 Unit PB (Reset) 1 2 Unit PB 10250T (Start/Stop) 4 D7 2P Relay 2 D15 On/Off Delay Timer
2M	STRAINER-1	E125HCompact Bkr (15A trip)			E125H 3P 15	1 Standard Trip
3E	SPARE	FVNR Starter Size 4 [HMCP]	F206	4 60 NONE	HMCP 3P 150	2 Size 3&4 FVNR-150VA Typical 2 Size 1-4 Starter - Normally Open 2 Size 1-4 Starter - Normally Closed 2 3 Pos. Sel. Sw. (Hand-Off-Auto) 1 Pilot Light-PTT-10250T-LED (Run) 1 Pilot Light-PTT-10250T-LED (Stopped) 1 Pilot Light-PTT-10250T-LED (Overload Trip) 1 Additional X-Space 1 Standard Trip 1 Red Run

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	JASON D ALLINGTON	12/6/2023	JOB NAME	South Orange County Wastewater Authority JB Latham Treat		
	APPROVED BY	DATE	DESIGNATION	MCC-M		
	VERSION	TYPE	DRAWING TYPE			
	1.0.3.3	Freedom+ MCC	Customer Appr.			
NEG-ALT Number	REVISION	DWG SIZE	G.O.	ITEM	SHEET	
LAED0917X0K2-0002		A			3 of 6	

Unit	Nameplate	Description	Class	Starter Size HP/FLA Wire Diag.	Bkr/Sw Poles Trip/Clip	Unit Features
						4 Amber Fault 1 1 Unit PB (Reset) 1 2 Unit PB 10250T (Start/Stop) 4 D7 2P Relay 2 D15 On/Off Delay Timer
3G	AHU-1R	HFD Bkr (15A trip)			HFD 3P 15	1 Standard Trip
				5599A85.DWF		
3H		6" Door				
3L	SPARE	FVNR Starter Size 1 [HMCP]	F206	1 10 NONE	HMCP 3P 30	1 Size 1&2 FVNR-100VA Typical 1 Size 3&4 FVNR-150VA Typical 2 Size 1-4 Starter - Normally Open 2 Size 1-4 Starter - Normally Closed 2 3 Pos. Sel. Sw. (Hand-Off-Auto) 1 Pilot Light-PTT-10250T-LED (Run) 1 Pilot Light-PTT-10250T-LED (Stopped) 1 Pilot Light-PTT-10250T-LED (Overload Trip) 1 Additional X-Space 1 Standard Trip 1 Red Run 4 Amber Fault 1 1 Unit PB (Reset) 1 2 Unit PB 10250T (Start/Stop) 4 D7 2P Relay 2 D15 On/Off Delay Timer
3M		6" Door				
4F	LP-M	PL1A Panelboard 225A 120/208V 3PH 4W 42 CKT				42 Pnlbd Bkr, BAB 1 Pole 20A bkr
				5A10398.DWF		
4M	XMFR LP-M	30 Kva 3 ph, 440-480 / 120-208V High Efficiency Xfmr, 50A Pri., 110A Sec. Bkr.				
				5A10398.DWF		
5G	TIE	HLD Main Bkr (350A trip), Lugs: 2-#400- -#400-500Kcmil			HLD 3P 350	1 Standard Trip 1 Key Interlock
5J		12" Door				
5M		18" Door				
6B	STRAINER-2	HFD Bkr (15A trip)			HFD 3P 15	1 Standard Trip
				5599A85.DWF		
6G	MAIN-3 NPWP-3	FVNR Starter Size 4 [HMCP]	F206	4 60 NONE	HMCP 3P 150	2 Size 3&4 FVNR-150VA Typical 2 Size 1-4 Starter - Normally Open 2 Size 1-4 Starter - Normally Closed 2 3 Pos. Sel. Sw. (Hand-Off-Auto) 1 Pilot Light-PTT-10250T-LED (Run) 1 Pilot Light-PTT-10250T-LED (Stopped) 1 Pilot Light-PTT-10250T-LED (Overload Trip) 1 Additional X-Space 1 Standard Trip 1 Red Run 4 Amber Fault 1 1 Unit PB (Reset) 1 2 Unit PB 10250T (Start/Stop) 4 D7 2P Relay 2 D15 On/Off Delay Timer

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	JASON D ALLINGTON	12/6/2023	JOB NAME	South Orange County Wastewater Authority JB Latham Trea	
	APPROVED BY	DATE	DESIGNATION	MCC-M	
	VERSION	TYPE	DRAWING TYPE		
	1.0.3.3	Freedom+ MCC	Customer Appr.		
NEG-ALT Number	REVISION	DWG SIZE	G.O.	ITEM	SHEET
LAED0917X0K2-0002		A			4 of 6



Unit	Nameplate	Description	Class	Starter Size HP/FLA Wire Diag.	Bkr/Sw Poles Trip/Clip	Unit Features
6K	JOCKEY-4 NPWP-4	FVNR Starter Size 1 [HMCP]	F206	1 10 NONE	HMCP 3P 30	1 Size 1&2 FVNR-100VA Typical 1 Size 3&4 FVNR-150VA Typical 2 Size 1-4 Starter - Normally Open 2 Size 1-4 Starter - Normally Closed 2 3 Pos. Sel. Sw. (Hand-Off-Auto) 1 Pilot Light-PTT-10250T-LED (Run) 1 Pilot Light-PTT-10250T-LED (Stopped) 1 Pilot Light-PTT-10250T-LED (Overload Trip) 1 Additional X-Space 1 Standard Trip 1 Red Run 4 Amber Fault 1 1 Unit PB (Reset) 1 2 Unit PB 10250T (Start/Stop) 4 D7 2P Relay 2 D15 On/Off Delay Timer
6L		6" Door				
6M	MUFFIN MONSTER	E125H Compact Bkr (20A trip)			E125H 3P 20	1 Standard Trip
7C		250KA, SPD Standard + Surge Counter Features Package, with Circuit Breaker		NONE		
7F	DECANT PUMP 02P26013	FVNR Starter Size 1 [HMCP]	F206	1 10 NONE	HMCP 3P 30	1 Size 1&2 FVNR-100VA Typical 1 Size 3&4 FVNR-150VA Typical 2 Size 1-4 Starter - Normally Open 2 Size 1-4 Starter - Normally Closed 2 3 Pos. Sel. Sw. (Hand-Off-Auto) 1 Pilot Light-PTT-10250T-LED (Run) 1 Pilot Light-PTT-10250T-LED (Stopped) 1 Pilot Light-PTT-10250T-LED (Overload Trip) 1 Additional X-Space 1 Standard Trip 1 Red Run 4 Amber Fault 1 1 Unit PB (Reset) 1 2 Unit PB 10250T (Start/Stop) 4 D7 2P Relay 2 D15 On/Off Delay Timer
7H	LP-K	HFD Bkr (25A trip)			HFD 3P 25	1 Standard Trip
7L	SCUM PUMP 02P26112	FVNR Starter Size 2 [HMCP]	F206	2 15 NONE	HMCP 3P 50	1 Size 1&2 FVNR-100VA Typical 1 Size 3&4 FVNR-150VA Typical 2 Size 1-4 Starter - Normally Open 2 Size 1-4 Starter - Normally Closed 2 3 Pos. Sel. Sw. (Hand-Off-Auto) 1 Pilot Light-PTT-10250T-LED (Run) 1 Pilot Light-PTT-10250T-LED (Stopped) 1 Pilot Light-PTT-10250T-LED (Overload Trip) 1 Additional X-Space 1 Standard Trip 1 Red Run

<p>The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.</p>	PREPARED BY	DATE	Eaton Fayetteville, NC			
	JASON D ALLINGTON	12/6/2023	JOB NAME	South Orange County Wastewater Authority JB Latham Trea		
	APPROVED BY	DATE	DESIGNATION	MCC-M		
	VERSION	TYPE	DRAWING TYPE			
	1.0.3.3	Freedom+ MCC	Customer Appr.			
NEG-ALT Number	REVISION	DWG SIZE	G.O.	ITEM	SHEET	
LAED0917X0K2-0002		A			5 of 6	

<u>Unit</u>	<u>Nameplate</u>	<u>Description</u>	<u>Class</u>	<u>Starter Size</u> <u>HP/FLA</u> <u>Wire Diag.</u>	<u>Bkr/Sw</u> <u>Poles</u> <u>Trip/Clip</u>	<u>Unit</u> <u>Features</u>
7M		6" Door				4 Amber Fault 1 1 Unit PB (Reset) 1 2 Unit PB 10250T (Start/Stop) 4 D7 2P Relay 2 D15 On/Off Delay Timer
8G	SWGR-MAR-EAST	HLD Main Bkr (350A trip), Lugs: 2-#400-#400-500Kcmil	NONE		HLD 3P 350	1 Standard Trip 1 Key Interlock
8J		PXM2260	NONE			
8M		18" Door				

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	APPROVED BY	DATE	JOB NAME South Orange County Wastewater Authority JB Latham Trea	DESIGNATION MCC-M			
	VERSION 1.0.3.3	TYPE Freedom+ MCC	DRAWING TYPE Customer Appr.				
NEG-ALT Number LAED0917X0K2-0002	REVISION	DWG SIZE A	G.O.	ITEM	SHEET 6 of 6		

**Portable Generator Connection Switchboard (Option 1) and Kirk-Key provision for existing Magnum Breaker**

Item No.	Qty	Product	Description
	1	Switchboards	Pow-R-Line C Switchboard, Front Access/ Front and Rear Align, Type 3R (nonwalk-in) Flat Roof, 480Y/277V 3-Phase 4-Wire, 2000 Tin Plated Copper, Minimum Interrupting Rating: 65kA, Bus Bracing Rating: 65kA, Depth: 30 In

**Catalog No** SDFNFPNX0D0B1  
**Designation** Portable Generator Connection

**Structure**

- 1 2000 Amp Tin Plated CU Main Structure**  
 Solid Bottom Plate  
**Compartment 1 - Breaker 2000A 3P [RGH 2000A Frame]**  
 Mechanical (6) #4-500 kcmil  
 Generator Incoming Power Quick Connect Receptacles, Input (Male)  
 TripType Not Found

**Qty List of Materials**

- 1 Type 3R (nonwalk-in) Flat Roof
- 1 Heater Package - (CPT, heater, thermostat, fused disconnect)
- 1 Service Entrance Label
- 1 Tin Plated Copper Ground Bus
- 1 2000 Amp Tin Plated CU Main Structure
- 1 Mechanical (6) #4-500 kcmil
- 1 Key Interlock (Breaker)
- 1 Generator Incoming Power Quick Connect Receptacles, Input (Male)
- 1 Solid Bottom Plate
- 1 Seismic Freestanding Label (IBC/CBC Seismic Qualified)
- 1 2000A 3P [RGH 2000A Frame], Trip 2000 A, 310+ w/ GFA, HLA, (6) #4-500 kcmil, Mechanical, Bottom
- 1 Kirk-Key provision for existing Magnum Breaker

## Switchboard General Information

**Pow-R-Line C - Specifications**

Quantity: 1

Alignment: Front Access/ Front and Rear Align

Service: 480Y/277V 3-Phase 4-Wire

Minimum Interrupt Rating: 65 kA

**Bus Specifications**

Bus Amps: 2000

Bus Bracing Rating: 65kA

Neutral Amps: 2000

Bus Material: Tin Plated Copper

Heat Test

Ground Bus Material: Tin Plated Copper Ground Bus Bolted To Frame, (1) #6-350 kcmil Ground Lug

**Incoming Information**

Incoming Qty & Size: None

**Structure Specifications**

Service Entrance

Enclosure Type: Type 3R (nonwalk-in) Flat Roof

Enclosure: Outdoor Enlosure Configuration Per Euserc Dwg 354

Seismic Label (IBC/CBC Seismic Qualified) - Freestanding

Refer to seismic installation data sheet TD01508002E and drawing 1A32497 for details.

Heater package - ( CPT, heater, thermostat, fused disconnect)

**Special Notes**

Qty Description

Catalog Number

**Enclosure properties**

Struct #

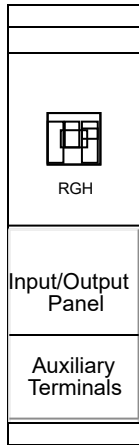
1

Description/Modifications

Generator Quick Connect Structure - 2000A Max. (Auxiliary Structure)

Solid bottom plate

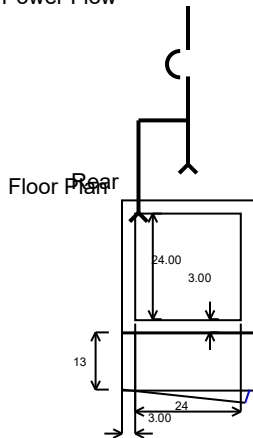
<p>The information on this document is created by Eaton Corporation. It is disclosed in confidence and it is only to be used for the purpose in which it is supplied.</p>	PREPARED BY	DATE	<div style="display: flex; justify-content: space-between;"> <span><b>Eaton</b></span> <span><b>SumterSC</b></span> </div>		
	JOHN H JANSEN	12/7/2023			
	APPROVED BY	DATE	JOB NAME	SOCWA Generator Quick Connect	
		DESIGNATION	Portable Generator Connection		
	VERSION	TYPE	DRAWING TYPE		
	9.0.33.3	Switchboards	CustAppr		
NEG-ALT Number	REVISION	DWG SIZE	G.O.	ITEM	SHEET
K7851019X3K1-0000	0	DwgA			1 of 3



Front View

Struct	1 *
Depth	30
Width	30

Power Flow



Total of 1 Structures, Total Weight of 652 Weight-Lbs. with Front Hinged Doors.  
 Total of 1 Structures, Total Width of 30 Inches with Front Hinged Doors.

<b>Structure</b>	1				
<b>Ship-Inches</b>	30.00				
<b>Ship-MM</b>	762				
<b>Width-Inches</b>	30.00				
<b>Width-MM</b>	762				
<b>Depth(Inner)-In.</b>	30.00				
<b>Depth(Inner)-MM</b>	762				
<b>Depth(Outer)-In.</b>	43.00				
<b>Depth(Outer)-MM</b>	1092				
<b>Height-Inches</b>	90.00				
<b>Height-MM</b>	2286				
<b>Weight-Lbs.(Est.)</b>	652				
<b>Weight-Kg.(Est.)</b>	295				

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	JOHN H JANSEN	12/7/2023	JOB NAME	SOCWA Generator Quick Connect	
	APPROVED BY	DATE	DESIGNATION	Portable Generator Connection	
	VERSION	TYPE	DRAWING TYPE		
	9.0.33.3	Switchboards	CustAppr		
NEG-ALT Number	REVISION	DWG SIZE	G.O.	ITEM	SHEET
K7851019X3K1-0000	0	DwgA			2 of 3

## Switchboard Units Information

Str#	Unit	Description/Modifications	Nameplate
1		Generator Breaker-2000A 3P [RGH 2000A Frame], Trip(Ir) 2000A., 310+ w/ GFA, HLA, LSG Auxiliary Terminals, Mechanical, (6) #4-500 kcmil, Bottom Kirk Key interlock Neutral Terminal, (6) #4-500 kcmil Input/Output Receptacles, Input (Male)	

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	APPROVED BY	DATE	JOB NAME DESIGNATION	SOCWA Generator Quick Connect Portable Generator Connection		
	VERSION 9.0.33.3	TYPE Switchboards	DRAWING TYPE CustAppr			
NEG-ALT Number K7851019X3K1-0000	REVISION 0	DWG SIZE DwgA	G.O.	ITEM	SHEET 3 of 3	

**Portable Generator Connection Switchboard w/2nd Section (Option 2) and Kirk-Key provision for existing Magnum Breaker**

Item No.	Qty	Product	Description
	1	Switchboards	Pow-R-Line C Switchboard, Front Access/ Front and Rear Align, Type 3R (nonwalk-in) Flat Roof, 480Y/277V 3-Phase 4-Wire, 2000 Tin Plated Copper, Minimum Interrupting Rating: 65kA, Bus Bracing Rating: 65kA, Depth: 30 In
		<b>Catalog No</b>	SDFNFPNX0D0B2
		<b>Designation</b>	Portable Generator Connection
<b>Structure</b>	<b>1</b>	<b>2000 Amp Tin Plated CU Main Structure</b>	Solid Bottom Plate <b>Compartment 1 - Breaker 2000A 3P [RGH 2000A Frame]</b> Mechanical (6) #4-500 kcmil Generator Incoming Power Quick Connect Receptacles, Input (Male) TripType Not Found
<b>Structure</b>	<b>2</b>	<b>2000 Amp Tin Plated CU Bussed Outgoing Cable Section</b>	Solid Bottom Plate
	<b>Qty</b>	<b>List of Materials</b>	
	2	Type 3R (nonwalk-in) Flat Roof	
	2	Heater Package - (CPT, heater, thermostat, fused disconnect)	
	1	Service Entrance Label	
	2	Tin Plated Copper Ground Bus	
	1	2000 Amp Tin Plated CU Main Structure	
	1	Mechanical (6) #4-500 kcmil	
	1	Key Interlock (Breaker)	
	1	Generator Incoming Power Quick Connect Receptacles, Input (Male)	
	2	Solid Bottom Plate	
	2	Seismic Freestanding Label (IBC/CBC Seismic Qualified)	
	1	2000 Amp Tin Plated CU Bussed Outgoing Cable Section	
	1	2000A 3P [RGH 2000A Frame], Trip 2000 A, 310+ w/ GFA, HLA, (6) #4-500 kcmil, Mechanical, Bottom	
	1	Kirk-Key provision for existing Magnum Breaker	

Eaton Selling Policy 25-000 applies.

All orders must be released for manufacture within 90 days of date of order entry. If approval drawings are required, drawings must be returned approved for release within 60 days of mailing. If drawings are not returned accordingly, and/or if shipment is delayed for any reason, the price of the order will increase by 1.0% per month or fraction thereof for the time the shipment is delayed.

Seller shall not be responsible for any failure to perform, or delay in performance of, its obligations resulting from the COVID-19 pandemic or any future epidemic, and Buyer shall not be entitled to any damages resulting thereof.

Kevin Renek  
 Sr. Application Engineer  
 909-590-6802  
 krenek@pacificparts.com

## Switchboard General Information

**Pow-R-Line C - Specifications**

Quantity: 1

Alignment: Front Access/ Front and Rear Align

Service: 480Y/277V 3-Phase 4-Wire

Minimum Interrupt Rating: 65 kA

**Bus Specifications**

Bus Amps: 2000

Bus Bracing Rating: 65kA

Neutral Amps: 2000

Bus Material: Tin Plated Copper

Heat Test

Ground Bus Material: Tin Plated Copper Ground Bus Bolted To Frame, (1) #6-350 kcmil Ground Lug

**Incoming Information**

Incoming Qty & Size: (6) #4-500 kcmil

**Structure Specifications**

Service Entrance

Enclosure Type: Type 3R (nonwalk-in) Flat Roof

Enclosure: Outdoor Enlosure Configuration Per Euserc Dwg 354

Seismic Label (IBC/CBC Seismic Qualified) - Freestanding

Refer to seismic installation data sheet TD01508002E and drawing 1A32497 for details.

Heater package - ( CPT, heater, thermostat, fused disconnect)

**Special Notes**

Qty Description

Catalog Number

**Enclosure properties**

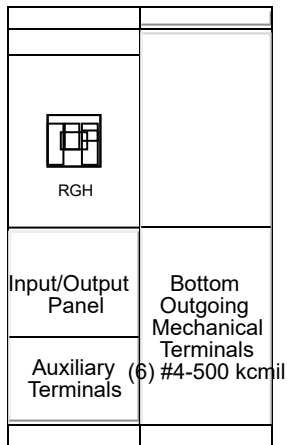
Struct #

Description/Modifications

1	Generator Quick Connect Structure - 2000A Max. (Auxiliary Structure) Solid bottom plate
2	Bussed structure with lugs for outgoing cable (Auxiliary Structure) Solid bottom plate

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	JOHN H JANSEN	12/7/2023			
	APPROVED BY	DATE	JOB NAME	SOCWA Generator Quick Connect Portable Generator Connection	
		DESIGNATION			
	VERSION	TYPE	DRAWING TYPE		CustAppr
	9.0.33.3	Switchboards			
NEG-ALT Number	REVISION	DWG SIZE	G.O.	ITEM	SHEET
K7851019X3K1-0000	0	DwgA			1 of 3

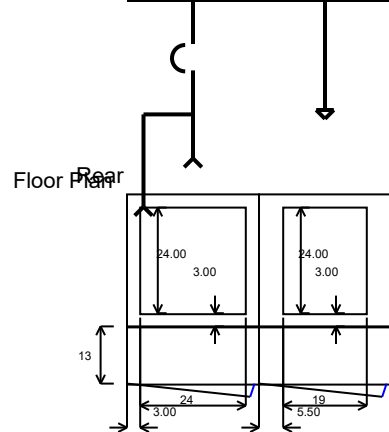




Front View

Struct	1 *	2 *
Depth	30	30
Width	30	30

Power Flow



Total of 2 Structures, Total Weight of 1266 Weight-Lbs. with Front Hinged Doors.  
Total of 2 Structures, Total Width of 60 Inches with Front Hinged Doors.

Structure	1	2			
Ship-Inches	30.00	30.00			
Ship-MM	762	762			
Width-Inches	30.00	30.00			
Width-MM	762	762			
Depth(Inner)-In.	30.00	30.00			
Depth(Inner)-MM	762	762			
Depth(Outer)-In.	43.00	43.00			
Depth(Outer)-MM	1092	1092			
Height-Inches	90.00	90.00			
Height-MM	2286	2286			
Weight-Lbs.(Est.)	652	614			
Weight-Kg.(Est.)	295	278			

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PREPARED BY JOHN H JANSEN	DATE 12/7/2023	<b>Eaton</b>		SumterSC	
APPROVED BY	DATE	JOB NAME SOCWA Generator Quick Connect	DESIGNATION Portable Generator Connection		
VERSION 9.0.33.3	TYPE Switchboards	DRAWING TYPE CustAppr			
NEG-ALT Number K7851019X3K1-0000	REVISION 0	DWG SIZE DwgA	G.O.	ITEM	SHEET 2 of 3

## Switchboard Units Information

Str#	Unit	Description/Modifications	Nameplate
1		Generator Breaker-2000A 3P [RGH 2000A Frame], Trip(Ir) 2000A., 310+ w/ GFA, HLA, LSG Auxiliary Terminals, Mechanical, (6) #4-500 kcmil, Bottom Kirk Key interlock Neutral Terminal, (6) #4-500 kcmil Input/Output Receptacles, Input (Male)	
2			

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	APPROVED BY	DATE	JOB NAME DESIGNATION	SOCWA Generator Quick Connect Portable Generator Connection			
	VERSION 9.0.33.3	TYPE Switchboards	DRAWING TYPE CustAppr				
NEG-ALT Number K7851019X3K1-0000	REVISION 0	DWG SIZE DwgA	G.O.	ITEM	SHEET 3 of 3		

# Agenda Item

# 6.B.

**Board of Directors Meeting**

**Meeting Date:** January 11, 2024

**TO:** Board of Directors

**FROM:** Jim Burror, Acting General Manager/Director of Operations

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

**SUBJECT:** J. B. Latham Treatment Plant Effluent Pump Station and Energy Building Design Contract [Project Committee 2]

## Overview

SOCWA staff removed the Effluent Pump Station and Energy Building Improvements from the Package B Improvements scope of work. SCOWA staff obtained a proposal from Carollo Engineers to provide engineering services associated with the re-packaging of the two scope items that were removed.

The proposed Scope of Services includes the revision and re-packaging of drawings and specifications. SOCWA procured the effluent valves for the Effluent Pump Station improvements as part of Package B. There will be additional efforts associated with the Energy Building Improvements, which include:

- Jib-crane addition at the upper level of the Energy Building
- Seismic retrofit of the roof framing and wall anchorage connections
- Safety upgrades include guardrails, skylights, and other items.

Carollo proposed a total fee of \$175,516. Staff broke down the costs of \$66,710 for the Energy Building Roof improvements, \$44,471 for the hoist system, and \$64,335 for the Effluent Pump Station improvements.

## Cost Analysis

The Effluent Pump Station Improvements will be funded by 32226L-000 and have a budget of \$200,000 for the 23/24 fiscal year. Table 1 shows the allocation of costs by member agency.

Table 1 – Cost Allocation by Member Agency (32226L-000)

Agency	Cost
Moulton Niguel Water District	\$14,849
Santa Margarita Water District	\$30,932
South Coast Water District	\$18,554
Total	\$64,335

The Energy Building Roof improvements will be funded by 32225S-000 (solids) and have an available fund previously collected of \$75,000. Table 2 shows the allocation of costs by member agency.

Table 2 – Cost Allocation by Member Agency (32225S-000)

<b>Agency</b>	<b>Cost</b>
Moulton Niguel Water District	\$14,423
Santa Margarita Water District	\$38,945
South Coast Water District	\$13,342
Total	\$66,710

The hoist system will be funded by 3216-000 (common) and has a previously collected fund of \$49,999. Table 3 shows the allocation of costs by member agency.

Table 3 – Cost Allocation by Member Agency (3216-000)

<b>Agency</b>	<b>Cost</b>
Moulton Niguel Water District	\$9,939
Santa Margarita Water District	\$23,671
South Coast Water District	\$10,861
Total	\$44,471

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

This item was reviewed and discussed as an information item by the Engineering Committee on December 14, 2023.

**Recommended Action:** Staff recommends that the PC 2 Board of Directors approve the contract to Carollo Engineers for a total of \$175,516 for the JBL Effluent Pump Station and Energy Building improvements.



December 6, 2023

Roni Young  
South Orange County Wastewater Authority  
34156 Del Obispo Street  
Dana Point, CA 92629

Subject: J.B. Latham Treatment Plant (JBLTP) Facility Effluent Pump Station & Energy Recovery Building Re-package

Dear Ms. Young:

Pursuant to your request, Carollo Engineers, Inc. (Carollo) has prepared this letter proposal for the South Orange County Wastewater Authority (SOCWA) to provide engineering services associated with re-packaging of the Effluent Pump Station and Energy Recovery Building improvements that were removed from the Package B Improvements at the J.B. Latham Treatment Plant. The scope of services related to a re-package effort are outlined below.

### Scope of Services

The proposed Scope of Services includes the revision and re-package of drawings and specifications. References to work in other areas from the previous Package B Improvements Project will be removed from the drawings and specifications, and only reflect the work to the Effluent Pump Station and the Energy Recovery Building. These documents will be re-packaged for SOCWA approval and become a new bid package for the work. Work at the Energy Recovery Building will include the following new work:

- Jib-crane addition at the 2<sup>nd</sup> floor of the Energy Recovery Building.
- Seismic retrofit of the roof framing and wall anchorage connections at the Energy Recovery Building.
- Safety Upgrades at Energy Recover Building roof including guardrail, skylights, and other items identified as part of Package B project.

Carollo will evaluate a proposed location for the jib-crane and develop strengthening details as required at the Energy Recovery Building 2<sup>nd</sup> floor and supporting elements to accommodate the installation. The 2019 California Building Code will be used as the basis for design of the structural support and strengthening. The crane hoist will be electric however the boom rotation will be manual. It is assumed the crane will not have any monitoring or alarm status to SCADA.

Carollo shall perform an update to the seismic retrofit design so that it complies with the 2019 California Building Code. Significant changes are not anticipated, but some adjustments may be necessary. An alternative attachment detail will be needed where the foul air ducting interferes with access to the roof/wall interface.

Carollo will update/adapt the Energy Recovery Building safety improvement details that were prepared for the Package B project. Significant changes are not anticipated but some adjustments may be necessary to address differing existing conditions identified during the Package B project.

Page 2

Carollo will prepare general and discipline drawings to support the design elements listed above. Carollo will prepare applicable administrative and technical specifications to support the design elements listed above. Carollo will develop a cost estimate at the draft submittal. The estimate will be updated at the final submittal milestone.

Carollo will also review the Contractor's "As-Built" drawings from the Package B Improvements Project construction for any design clarifications that may have occurred in the Effluent Pump Station area. These potential changes will be review with SOCWA to confirm the approach to the design documents.

### **Deliverables**

Plans/Specifications packages in electronic format (PDF file of Plans and Microsoft® Word file of Specifications, with 11-inch by 17-inch pages and 8.5-inch by 11-inch pages, respectively) at the Draft and Final Submittal design stages.

### **Schedule**

Assuming approval of this amendment by January 1, 2024, the schedule for the overall project will be revised as follows:

- Draft Submittal to SOCWA: 4/1/2024
- SOCWA Draft Review Time: 4/1/2024 – 4/16/2024
- Final Submittal to SOCWA: 6/1/2024

Roni Young  
South Orange County Wastewater Authority  
December 6, 2023

Page 3

## Budget

A table with the estimated level of effort and fee is appended as Exhibit B. The exhibit also includes a list of drawings that are anticipated to be required as new or modified sheets.

Please let us know if you have any questions.

Sincerely,  
CAROLLO ENGINEERS, INC.

Jeff Weishaar, P.E.  
Vice President

JW:bg

Enclosures: Fee Table

cc:

South Orange County Wastewater Authority

JB Latham WWTP  
Effluent Pump Station Energy Recovery Building Design

Exhibit A - Proposed Fee

TASK	Project Manage	Project Engineers	Structural	Electrical	CAD	Admin	Total Hours	Total Labor	Other Direct Costs	Task Total
<b>Energy Recovery Building</b>										
Project Management & Meetings	8	16	8	6			38	\$ 8,140	\$ 532	\$ 8,672
Site Visit	4	4	8	8			24	\$ 5,020	\$ 1,086	\$ 6,106
<b>Energy Recovery Building</b>										
Draft Bid Documents	16	48	56	34	110	8	272	\$ 51,430	\$ 4,308	\$ 55,738
Final Bid Documents	12	28	20	20	54	6	140	\$ 26,840	\$ 2,460	\$ 29,300
<b>Effluent Pump Station</b>										
Draft Bid Documents	8	24	24	22	70	8	156	\$ 29,070	\$ 2,684	\$ 31,754
Final Bid Documents	4	20	16	16	42	6	104	\$ 19,260	\$ 1,956	\$ 21,216
Prebid Meeting	4	4	4				12	\$ 2,740	\$ 168	\$ 2,908
Addendum (1 Total)	4	36	24	8	20	6	98	\$ 18,450	\$ 1,372	\$ 19,822
<b>HOURS TOTAL</b>	60	180	160	114	296	34	844	\$ 160,950	\$ 14,566	\$ 175,516
<b>RATE</b>	\$305	\$190	\$190	\$190	\$175	\$135				
<b>COST TOTAL</b>	<b>\$ 18,300</b>	<b>\$ 34,200</b>	<b>\$ 30,400</b>	<b>\$ 21,660</b>	<b>\$ 51,800</b>	<b>\$ 4,590</b>		<b>\$ 160,950</b>	<b>\$14,566</b>	<b>\$ 175,516</b>



# Agenda Item

# 7.A.

**Legal Counsel Review:** No

**Meeting Date:** January 11, 2024

**TO:** Board of Directors

**FROM:** Jim Burror, Acting General Manager/Director of Operations

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

**SUBJECT:** Letter of Support for the County of Orange’s application for grant funds from the Wildlife Conservation Board (WCB) for the Aliso Creek Watershed Habitat Connectivity Improvement Project: Phases I and II

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## Summary

The County of Orange is applying for grant funds from the Wildlife Conservation Board (WCB) for the Aliso Creek Watershed Habitat Connectivity Improvement Project: Phases I and II. The County of Orange has requested letters of support from its members of the South Orange County Watershed Management Area (SOCWMA) in its effort to support this grant application.

## Discussion/Analysis

The Project will rehabilitate the lower six miles of Aliso Creek, which will revitalize and reconnect valuable riparian habitat and stabilize the channel, thereby reducing erosion and flood risk in Aliso Creek. Restoring the creek’s hydrologic function should protect special status species home to the creek and increase the creek ecosystem’s resilience to climate change. Additionally, this project will protect critical regional infrastructure located adjacent to Aliso Creek and provide sustainable long-term access to those utilities. The County proposes to complete the Project in two phases. During Phase I, it will develop a stream rehabilitation master plan. Through Phase II, it will select a preferred restoration alternative and advance it to 65 percent design, including environmental review and permitting coordination, to make it ready for implementation.

The Project contributes directly to WCB’s goals and objectives by providing the benefits of protecting and enhancing biodiversity; improving climate change resiliency and connectivity; and enhancing a water-related project. The anticipated Project benefits also align precisely with the State’s priorities of protecting biodiversity, increasing climate resilience, expanding nature-based solutions, and protecting 30 percent of California’s land and coastal waters by 2030. The Project will further the restoration of a portion of Aliso Creek identified by the Aliso Creek Collaboration Group, a partnership of local municipalities, water districts, permitting agencies and other watershed stakeholders, as a high priority for restoration. This regional Project support and County ownership of the Aliso and Wood Canyons Wilderness Park, through which this portion of the creek flows, will ensure long-term project durability.

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

None

## Fiscal Impact

None

**Recommended Action:** Staff recommends that the Board of Directors authorize the Acting General Manager to submit a letter of support on behalf of SOCWA supporting the County of Orange's application for grant funds from the Wildlife Conservation Board (WCB) for the Aliso Creek Watershed Habitat Connectivity Improvement Project: Phases I and II.



South Orange County Wastewater Authority

**DRAFT SUPPORT LETTER**

January 11, 2024

Wildlife Conservation Board  
715 P Street, 17<sup>th</sup> Floor  
Sacramento, CA 95814

**Re: Aliso Creek Watershed Habitat Connectivity Improvement Project: Phases I and II**

Dear Wildlife Conservation Board,

On behalf of the South Orange County Wastewater Authority (SOCWA), I am pleased to write in strong support of the County of Orange's (County) application for grant funds from the Wildlife Conservation Board (WCB) for the Aliso Creek Watershed Habitat Connectivity Improvement Project: Phases I and II (Project). The Project will rehabilitate the lower six miles of Aliso Creek, which will revitalize and reconnect valuable riparian habitat and stabilize the channel, thereby reducing erosion and flood risk in Aliso Creek. Restoring the creek's hydrologic function should protect special status species home to the creek and increase the creek ecosystem's resilience to climate change. Additionally, this project will protect SOCWA's critical regional infrastructure located adjacent to Aliso Creek and provide sustainable long-term access to those utilities. The County proposes to complete the Project in two phases. During Phase I, it will develop a stream rehabilitation master plan. Through Phase II, it will select a preferred restoration alternative and advance it to 65 percent design, including environmental review and permitting coordination, to make it ready for implementation.

The Project contributes directly to WCB's goals and objectives by providing the benefits of protecting and enhancing biodiversity, improving climate change resiliency and connectivity, and enhancing a water-related project. The anticipated Project benefits also align precisely with the State's priorities of protecting biodiversity, increasing climate resilience, expanding nature-based solutions, and protecting 30 percent of California's land and coastal waters by 2030. The Project will further the restoration of a portion of Aliso Creek identified by the Aliso Creek Collaboration Group, a partnership of local municipalities, water districts, permitting agencies, and other watershed stakeholders, as a high priority for restoration. This regional Project support and County ownership of the Aliso and Wood Canyons Wilderness Park, through which this portion of the creek flows, will ensure long-term project durability.

South Orange County Wastewater Authority strongly encourages the Wildlife Conservation Board's full consideration of the County's application for funds for the Aliso Creek Watershed Habitat Connectivity Improvement Project: Phases I and II. We are excited about and remain committed to the Project, which provides much-needed restoration of a valuable regional resource and will protect our critical utility infrastructure and access to it.

If you have any questions, please feel free to contact Jim Burror, Acting General Manager/Director of Operations, at 949-234-5402 or via email at [jburror@socwa.com](mailto:jburror@socwa.com).

Sincerely,  
SOCWA

James Leslie Burror, Jr.  
Acting General Manager/  
Director of Operations

# Agenda Item

# 7.B.

**Legal Counsel Review:** Yes

**Meeting Date:** January 11, 2024

**TO:** Board of Directors

**FROM:** Jim Burror, Acting General Manager/Director of Operations

**SUBJECT:** Resolution No. 2024-01: A Resolution of the Board of Directors of the South Orange County Wastewater Authority Amending "Exhibit A" Bylaws and Establishing New Quorum Requirements for the SOCWA Engineering Committee

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## Discussion/Analysis

As requested at the November 2023 Board meeting, staff will be proposing revising the Engineering Committee Bylaws to reset the membership from ten (10) to seven (7) members and meeting the quorum requirement from five (5) members to four (4).

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

Resolution No. 2015-08 established the quorum requirements for the SOCWA Engineering Committee in Exhibit A of the Committee Bylaws.

## Fiscal Impact

None.

**Recommended Action:** Staff recommends that the Board of Directors approve Resolution No. 2024-01, A Resolution of the Board of Directors of the South Orange County Wastewater Authority Amending "Exhibit A" Bylaws and Establishing New Quorum Requirements for the SOCWA Engineering Committee and revising the Engineering Committee membership from ten (10) to seven (7) and the meeting quorum requirements from five (5) members to four (4).

attachment(s): Revised Engineering Committee Bylaws

**RESOLUTION NO. 2024-01**

**A RESOLUTION OF THE BOARD OF DIRECTORS  
OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY  
AMENDING THE BYLAWS AND ESTABLISHING A NEW QUORUM  
REQUIREMENTS FOR THE SOCWA ENGINEERING COMMITTEE**

**WHEREAS**, the Board of Directors of the South Orange County Wastewater Authority (SOCWA) did establish the quorum requirements for the SOCWA Engineering Committee in the Committee Bylaws by adoption of previous Resolution No. 2015-08;

**WHEREAS**, the Board now wishes to reestablish Engineering Committee membership and new quorum requirements in order to facilitate the important business of the Committee in light of certain member agency withdrawals, which reduced the total number of SOCWA member agencies from ten (10) to seven (7).

**NOW, THEREFORE**, the Board of Directors of the South Orange County Wastewater Authority does hereby **RESOLVE, DETERMINE AND ORDER** as follows:

The SOCWA Engineering Committee Bylaws are hereby amended as set forth in the Bylaws attached hereto as "Exhibit A."

**PASSED** and **ADOPTED** by the Board of Directors of the SOUTH ORANGE COUNTY WASTEWATER AUTHORITY, County of Orange, State of California, on the 11th day of January 2024.

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

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Matt Collings, Chairman

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James Leslie Burror, Jr., Board Secretary

(Seal)

STATE OF CALIFORNIA     )  
  ) ss.  
COUNTY OF ORANGE     )

I, JAMES LESLIE BURROR, JR., 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. 2024-01** of said Board and that the same has not been amended or repealed.

Dated this 11th day of January, 2024.

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James Leslie Burror, Jr., Board Secretary  
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

**EXHIBIT "A"**

**BYLAWS  
OF THE  
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY  
ENGINEERING COMMITTEE**

The Engineering Committee is an advisory committee formed by the Board of Directors of SOCWA and comprised of Member agency technical staff to coordinate, advise, and oversee all engineering and technical matters, with the support of the General Manager and SOCWA staff.

Section 1. Membership. The Engineering Committee shall consist of **seven (7)** technical or engineering staff representatives, including one representative appointed from each Member Agency. The members shall serve at the pleasure of the Member Agency and may serve continuously until replaced by that Member Agency. Alternate representatives from the same Member Agency may substitute for the appointed committee member at any Engineering Committee meeting in the appointed member's absence. Any such alternate representative substituting for a committee member shall be afforded all rights and be charged with all duties any Engineering Committee member has pursuant to the Bylaws.

Section 2. Committee Procedures. **Four (4)** Engineering Committee members shall constitute a quorum for purposes of conducting business when the project/proposal being reviewed is for the benefit of the entire Authority. In other cases specific to a Project Committee, a quorum will consist of a simple majority of the members representing a particular Project Committee(s). Each member of the Engineering Committee is entitled to one (1) vote. Any actions or matters voted upon by the Engineering Committee must be approved by a majority of the members participating. The members of the Engineering Committee shall serve without compensation.

Section 3. Duties and Responsibilities. The Engineering Committee shall have the following duties and responsibilities:

- (a) Review Authority capital projects and recommend same for approval by the Board, as appropriate.
- (b) Annually review the Authority's Fiscal Year Capital Budgets and recommend same for approval by the Board, as appropriate.
- (c) Assist SOCWA staff in the development, review, analysis, and planning of the Authority's technical, engineering, and capital projects, including long-term capital project planning.
- (d) Other duties as delegated by the Board of Directors.



Section 4. Meetings. The Engineering Committee shall meet, as needed, on the 2<sup>nd</sup> Thursday of every month at 8:30 a.m. unless otherwise re-scheduled and properly noticed. The meetings shall be held at the SOCWA Administrative Office located at 34156 Del Obispo Street, Dana Point, California 92629.

Section 5. Public Meetings. All meetings of the Engineering Committee shall be open to the public, except as provided by law and in accordance with the law. The Secretary of SOCWA or their designee shall keep minutes of the Engineering Committee meetings.

Section 6. Amendment. The SOCWA Board of Directors may amend these Bylaws from time to time.

# Agenda Item

# 7.E.

**Board of Directors Meeting**

**Meeting Date: January 11, 2024**

**TO:** Board of Directors  
**FROM:** Jim Burror, Acting General Manager/Director of Operations  
**SUBJECT:** Acting General Manager's Status Report

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## **ADMINISTRATION**

### **Member Agency Requests**

The General Manager is directed, as of the May 10, 2022, Executive Committee Meeting, to include a summary of Member Agency Requests in the GM Report. The following requests of SOCWA staff have been received and responded to:

- SCWD requested information on the budget impact assessment for RTP to be operated by MNWD, which was presented by SOCWA staff at the November 2023 Board meeting.

## **ENVIRONMENTAL COMPLIANCE**

SOCWA staff submitted the monitoring plan for the Salt and Nutrient Management Plan (SNMP) to the San Diego Regional Water Quality Control Board (SDRWQCB). SDRWQCB requested the addition of nitrate to the monitoring plan, which staff has completed. SOCWA staff have also circulated the fate and transport model findings (Section 6) to PC12 for review. The final section includes the antidegradation analysis (Section 7), which Tess Dunham completed at the end of the 2023 calendar year. SOCWA staff anticipates a draft final to be provided to the SDRWQCB by the beginning of the 2024 calendar year. SDRWQCB staff have six months to comment on the SNMP. SOCWA staff have been providing interim sections of the SNMP to the SDRWQCB and meeting with staff when there are questions.

### **NWRI Independent Review Panel Presentation**

The National Water Research Institute (NWRI) is the agency overseeing an independent review of the ROMS-BEC model as a policy tool for California. There are four webinars and in person meetings scheduled starting November 28, 2023. The independent review panel's steering committee is made up of the regulated community, California regulators, academic panelists, and non-governmental organizations. The Independent Review Panel's (IRP) includes experts from around the world who will be reviewing the ROMS-BEC charge questions.

SOCWA staff represented the sanitation industry in a combined presentation with the California Association of Sanitation Agencies (CASA) on the "Regulated Community Perspectives on the Coupled ROMS-BEC Model" at the first IRP meeting on December 12, 2023. SOCWA staff is focused on providing the IRP with concerns related to previous plume tracking experience, summarized by earlier management review work, and included the concern that the model is not currently fit for regulatory purposes at this time. The next IRP meetings will be on January 9, 2024, and January 16-18. It is expected that the evaluation work by the IRP will take eighteen months to complete.

### **ETWD Lab Work**

El Toro Water District (ETWD) requested that the SOCWA Laboratory assist in regulatory compliance testing while the ETWD staff appeals a typo in the accreditation application under the new EPA Method Update Rule. SOCWA staff has provided ETWD with the additional charges associated with this work and will assist in this interim period.

### **DOE RFP**

On November 9, 2023, the Department of Energy's (DOE) Energy Efficiency and Renewable Energy Office released an "intend to release a request for proposals (RFP)" solicitation to fund projects to convert organic wastes, including wastewater sludge, into vehicle fuel. The DOE has allocated approximately \$7.5 Million for this solicitation. More details of the scope will be known when the RFP is released in December 2023/January 2024. However, based on the initial information, it appears that the scope will likely be a feasibility evaluation study (~ <\$500 K). The more likely option for vehicle fuel production is digestion or co-digestion of sludge with organic waste to produce biogas, followed by conversion of biogas to vehicle fuel.

If this were to be the scope, the feasibility study would involve evaluation of current and future capacity in the digesters at the RTP and JBL plants, the potential to add external organic waste (e.g., food waste, FOG) to enhance biogas production, the infrastructure needed to receive organic waste, upgrade digesters, clean the biogas and identifying end users, and vehicle fuel delivery mode. In addition, the scope may include preliminary economic evaluation and environmental benefits such as GHG emission reduction.

A key benefit to SOCWA will be the anticipated reduction in the amount of biogas flared and protection against any future regulations related to flaring and emission of nitrous oxide (NOx), sulfur oxides (Sox), and other air pollutants.

### **OPERATIONS/ENGINEERING**

Staff at JBL recently completed several small capital projects highlighted below:

Staff replaced a failing recirculation pump on Scrubber #2 under a small capital project to help ensure odorous air is adequately treated.



Staff repaired a failing chain and flight system on a primary tank under a small capital project.



Staff has also completed several valve replacements under small capital projects. Here is a sample project of a valve replacement nearing completion.

