

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



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

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

September 1, 2022
8:30 a.m.

PHYSICAL MEETING LOCATION:

Dana Hills Tennis Center
24911 Calle De Tennis
Dana Point, CA 92629

IN ACCORDANCE WITH AB361, MEMBERS OF THE PUBLIC ARE INVITED TO PARTICIPATE AND MAY JOIN THE MEETING VIA ONLINE FOR VISUAL INFORMATION ONLY (USE ZOOM LINK BELOW) AND BY TELECONFERENCE PHONE NUMBER 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. ON YOUR REQUEST, EVERY EFFORT WILL BE MADE TO ACCOMMODATE PARTICIPATION.

PUBLIC COMMENTS WILL BE TAKEN DURING THE MEETING FOR ORAL COMMENTS. COMMENTS MAY ALSO BE SUBMITTED PRIOR TO THE MEETING VIA EMAIL TO ASSISTANT SECRETARY DANITA HIRSH AT DHIRSH@SOCWA.COM.

IF YOU REQUIRE ANY SPECIAL DISABILITY RELATED ACCOMMODATIONS, PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SECRETARY'S OFFICE AT (949) 234-5452 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING TO REQUEST DISABILITY RELATED ACCOMMODATIONS. THIS AGENDA CAN BE OBTAINED IN ALTERNATE FORMAT UPON REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S SECRETARY AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING.

AGENDA ATTACHMENTS AND OTHER WRITINGS THAT ARE DISCLOSABLE PUBLIC RECORDS DISTRIBUTED TO ALL, OR A MAJORITY OF, THE MEMBERS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY BOARD OF DIRECTORS IN CONNECTION WITH A MATTER SUBJECT TO DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE BOARD OF DIRECTORS ARE AVAILABLE BY PHONE REQUEST MADE TO THE AUTHORITY ADMINISTRATIVE OFFICE AT 949-234-5452. THE AUTHORITY ADMINISTRATIVE OFFICES ARE LOCATED AT 34156 DEL OBISPO STREET, DANA POINT, CA ("AUTHORITY OFFICE"), BUT ARE NOT OPEN TO THE PUBLIC DURING THE PERIOD OF STAY AT HOME ORDERS. IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE BOARD OF DIRECTORS LESS THAN SEVENTY-TWO (72) HOURS PRIOR TO THE MEETING, THEY WILL BE SENT TO PARTICIPANTS REQUESTING VIA EMAIL DELIVERY. IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IMMEDIATELY ON VERBAL REQUEST TO BE DELIVERED VIA EMAIL TO REQUESTING PARTIES.

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.

Join Zoom Meeting
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Meeting ID: 872 7981 6752

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South Orange County Wastewater Authority
Board of Directors Meeting
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Find your local number: <https://socwa.zoom.us/j/kbXbIKYKTI>

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.

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4. AB361 – ALLOWING FOR VIRTUAL MEETINGS – Findings and Approval to continue Virtual meetings 1

ACTION The staff recommends that the Board of Directors approve the following findings and actions:

- A. The Board hereby FINDS AND DECLARES that it has considered the circumstances of the proclaimed state of emergency declared by the Governor on March 4, 2020 relating to the Covid-19 pandemic;
- B. Based on the information provided in this staff report and pursuant to the information and discussion presented in the September 1, 2022 Board meeting, the Board hereby FINDS AND DECLARES that as a result of the Covid-19 pandemic, meeting in person presents imminent risks to the health or safety of attendees, and directly impacts the ability of the members to meet safely in person; and that state and/or local officials continue to impose or recommend measures to promote social distancing;
- C. The Board hereby makes these findings and approves for the upcoming 30-day period, September 1, 2022 to October 1, 2022, regular and special meetings of the SOCWA Board and its Standing Committees and Project Committees may continue to be virtual meetings held in accordance with AB 361's Public Notice and Public Participation requirements.
- D. The Board of Directors hereby delegates authority to the Standing Committees of SOCWA to make the necessary findings to continue holding virtual meetings in accordance with AB 361 if necessary.
- E. Staff is hereby directed to notice the upcoming board and committee meetings as virtual meetings if the proclaimed state of emergency remains, unless staff makes special arrangements to hold the Board or Committee Meetings at a location that will allow for social distancing in which case the meeting may be held in person, and to place AB 361 findings on the agenda for consideration at the next occurring meeting(s) so that, at that point in time, a determination can be made regarding whether as a result of the emergency, meeting in person would continue to present imminent risks to the health or safety of attendees.

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5. CONSENT CALENDAR

- A. Minutes of Board of Directors 19
1. Board of Directors Special Meeting of May 19, 2022
 2. Board of Directors Regular Meeting of August 4, 2022

ACTION The Board will be requested to approve subject Minutes.

- B. Minutes of Joint PC 2 /Engineering Committee..... 34
- Joint PC 2 Committee & PC 2 Engineering Committee Meeting of August 4, 2022

ACTION The PC 2 Committee will be requested to approve subject Minutes as submitted, and the Board of Directors will be requested to receive and file subject Minutes.

- C. Minutes of Engineering Committee..... 37
- Engineering Committee Meeting of April 14, 2022
 - Engineering Committee Meeting of May 11, 2022
 - Engineering Committee Meeting of June 9, 2022

ACTION The Board of Directors will be requested to receive and file subject Minutes.

- D. Minutes of Finance Committee 48
- Finance Committee Meeting of April 19, 2022
 - Finance Committee Meeting of May 10, 2022

ACTION The Board of Directors will be requested to receive and file subject Minutes.

- E. Financial Reports for the Month of May 2022, and June 2022 Disbursements..... 55
1. Summary of Disbursements for May 2022 (Exhibit A-1); Summary of Disbursements for June 2022 (Exhibit A-2)
 2. Schedule of Funds Available for Reinvestment (Exhibit B)
 - Local Agency Investment Fund (LAIF)
 3. Schedule of Cash and Investments (Exhibit C)
 4. Capital Schedule (Exhibit D)
 - Capital Projects – Graph (Exhibit D-1)
 5. Budget vs. Actual Expenses:
 - Operations and Environmental Summary (Exhibit E-1)
 - Operations and Environmental by PC (E-1.2)
 - Residual Engineering, after transfer to Capital (Exhibit E-2)
 - Administration (Exhibit E-3)
 - Information Technology (IT) (Exhibit E-4)
 6. Q3 Fringe Pool and Fringe Rate Forecast (Exhibit E-5) (Updated Fringe Rate)

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ACTION	The Finance Committee recommends that the Board of Directors (i) ratify the May 2022 disbursements for the period from May 1, 2022, through May 31, 2022, totaling \$3,370,435, and to receive and file the May 2022 Financial Reports as submitted; and (ii) ratify the June 2022 disbursements for the period from June 1, through June 30, 2022, totaling \$3,206,691.	
F.	Adoption of Other Post-Employment Benefits (OPEB) PARS Trust Account Investment Guidelines and the GM Signature Authority as Plan Administrator	75
ACTION	The Finance Committee recommends that the Board of Directors provide comments on the Draft Guidelines and adopt the Investment Guidelines including the GM Signature Authority as the Plan Administrator.	
G.	Other Post-Employment Benefits (OPEB) Trust Account Annual Review	83
ACTION	The Finance Committee recommends that the Board of Directors receive and file the PARS report.	
H.	Draft GASB 68 Report for the Fiscal Year Ended June 30, 2022	99
ACTION	The Finance Committee recommends that the Board of Directors receive and file the GASB 68 Report as an information item prior to receipt of the Annual Financial Report and the Auditor's report on the Annual Financial Statements Audit.	
I.	Bartel Associates, LLC was acquired by Foster & Foster Consulting Actuaries, Inc. Effective July 1, 2022.....	123
ACTION	The Finance Committee recommends that the Board of Directors authorize the General Manager to modify the Bartel services contract to receive services from the acquiring firm, Foster and Foster.	
J.	Operations Report (<i>July 2022</i>).....	125
	1. Monthly Operational Report	
	2. SOCWA Ocean Outfall Discharges by Agency	
	3. Beach Ocean Monitoring Report	
	4. Recycled Water Report	
	5. Pretreatment Report (<i>July and August</i>)	
ACTION	The Board will be requested to receive and file subject reports as submitted.	

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K. Capital Improvement Program Status Report (*August 2022*) 166

ACTION Information Item, receive and file.

L. Capital Improvement Construction Projects Progress and Change Order Report (*August*) [Project Committees 2, 15, and 17]..... 170

- ACTIONS
1. Engineering Committee recommends that the PC-17 Board of Directors approve JR Filanc Change Orders Nos. 1 thru 3 for a total of \$65,337.02 with no additional days, for a revised contract value of \$1,812,531.02 for the RTP Aeration Diffuser Project.
 2. Staff recommends the Board of Directors receive and file the Report as an information item.

M. One (1) Year Contract Extension Award to Miles Chemical for Ferric Chloride..... 182

ACTION The Engineering Committee recommends that the Board of Directors authorize the General Manager to provide a 1-year contract extension to Miles Chemical, Inc. for Ferric Chloride at a rate of \$975.00 per dry ton for full loads (40,000+ dry tons), \$1,095.00 per dry ton for loads of 20,000 to <40,000 dry tons and \$1,216.00 per dry ton for loads of 10,000 to <20,000 dry ton.

6. GENERAL MANAGER'S REPORTS

A. Aliso & San Juan Creek Ocean Outfall Inspections [Project Committee Nos. 5 and 24] 182

ACTION Staff recommends that the PC5 and PC 24 Board members authorize awarding the contract for both outfall inspections to SubSea Global Solutions for an amount not to exceed \$89,600. Staff recommends that the Finance Department be instructed to retain \$90,000 cash on hand for the project with the close of the Fiscal Year Use Audit 2021-22 (cost to be shared equally between PC 5 and 24).

B. Stanford Wastewater Based Epidemiology SCAN Program Engagement..... 227

ACTION Staff is seeking concurrence of the Project Committees for each plant facility to participate at CTP, RTP and JBL in sampling for the SCAN project with a request of interest to the other 7 wastewater facilities under permits through SOCWA [Project Committee Nos. 2, 15 and 17]

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C. Flows and Solids Data for FY 2021-22 (Use Audit Related).....	229
ACTION Information Item.	
D. Renewal of MSDS Online and 24/7 On Call Services with VelocityEHS For \$4,907.00 [Project Committee Nos. 2, 15, and 17]	233
ACTION Staff recommends that the Board of Directors authorize the General Manager to execute the third year of the 3-year contract with VelocityEHS for \$4,907.00, for a total contract amount not to exceed \$14,721.00.	
E. Aptean Tabware Software Renewal for \$41,822.32 [Project Committee Nos. 2, 15, and 17]	236
ACTION Staff recommends that the Board of Directors approve an annual Contract renewal with Aptean for \$41,822.32 [Tabware Software].	
F. Cintas Corporation Extension to Uniform Rental and Laundry Service	238
ACTION Staff recommends that the Board of Directors authorize the General Manager to execute a one-year contract extension with Cintas Corporation at current prices (approximately \$6,000 per month).	
G. Eurofins Eaton Analytical Services Lab - Contract Extension 1 Year [PC. 5 & 24]	239
ACTION Staff recommends that the Board of Directors authorize the General Manager to extend the Eurofins Eaton Analytical Lab Services, 1 year contract at an estimated cost of \$5,000.	
H. COX Communication / Fiberoptic Internet Service for the Coastal Treatment Plant [Project Committee 15]	241
ACTION Staff recommends that the PC-15 Board of Directors authorize the General Manager to enter into a multi-year (5 year) contract with Cox Communications at an estimated value over five years of \$54,600.00 plus nominal fees for service for fiberoptic internet.	
I. General Counsel's Updates (verbal reports).....	
ACTION Information Items, Board Discussion and Direction	
J. General Manager's Status Report	243
ACTION Information Items, Board Discussion and Direction	

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- K. MNWD Request to Operate AWT Facility at Regional Treatment Plant
[Project Committee 17] [Correspondence to be submitted under separate cover].....

ACTION Information, Discussion and Direction to SOCWA Staff

- L. Upcoming Meetings Schedule:

- September 2022 – PC-15 Committee Meeting – Actual Date to Be Determined to discuss CTP Capital Funding Options
- August 31, 2022 – All Hands Meeting
- September 1, 2022 – Board of Directors Regular Meeting
- September 8, 2022 – Engineering Committee Regular Meeting
- September 13, 2022 PC-2 Committee Meeting (*Tentative*)
- September 20, 2022 – Finance Committee Special Meeting
- September 27, 2022 – PC-2 Committee Meeting (*Tentative*)

ACTION Information Item

7. CLOSED SESSION

- A. A Closed Session Conference with legal counsel – Cyber Security/Security of Essential Public Services pursuant to Government Code Section § 54957(a).
- B. Report out of Closed Session.

8. OTHER MATTERS

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

ADJOURNMENT

THE NEXT SOCWA BOARD MEETING
OCTOBER 6, 2022

Agenda Item

4

Board of Directors Meeting

Meeting Date: September 1, 2022

TO: Board of Directors
FROM: Betty Burnett, General Manager
SUBJECT: AB 361 – Allowing for Virtual Meetings - Findings and Approval to continue virtual meetings

BACKGROUND

On March 4, 2020, the Governor declared a state of emergency arising from the Covid-19 pandemic. Pursuant to Government Code 54953(e)(1), if a state of emergency exists, and state or local officials have imposed or recommended measures to promote social distancing, or if a majority of the Board determines that meeting in person would present imminent risks to the health and safety of attendees, then the Board can utilize telephonic or virtual meetings without compliance with the telephonic agenda provisions of the Brown Act found in Government Code 54953(b)(3). Consistent with findings made and the action taken at the August 4, 2022 Board Meeting, the SOCWA Board held its August Board, committee, and PC meetings virtually under AB 361. The Board's 30-day findings expire on September 3, 2022.

California continues to be in a proclaimed state of emergency. The Omicron variant is highly transmissible and has been identified in Orange County. The current County of Orange Health Officer's Orders and Strong Recommendations revised August 19, 2022 (attached to this staff report) contain "strong recommendations" promoting social distancing for vulnerable populations, which include individuals over 65 years old and those with underlying health conditions. In light of the ongoing state of emergency and these local recommendations, the SOCWA Board of Directors may conduct today's meeting virtually pursuant to Government Code 54953(e)(1)(A). In order to continue holding virtual board, special, committee, and PC meetings over the next 30 days, the SOCWA Board of Directors must make the required findings set forth below, and must continue making these findings every 30 days thereafter. The Board of Directors may also delegate this authority to the Standing Committees of SOCWA to allow them to make the necessary findings at a duly noticed public meeting.

DISCUSSION

AB 361 amends the Brown Act and allows for public organizations to use virtual meetings through January 1, 2024 if any of the following circumstances are met:

- (A) The legislative body holds a meeting during a proclaimed state of emergency, and state or local officials have imposed or recommended measures to promote social distancing.
- (B) The legislative body holds a meeting during a proclaimed state of emergency for the purpose of determining, by majority vote, whether as a result of the emergency, meeting in person would present imminent risks to the health or safety of attendees.

- (C) The legislative body holds a meeting during a proclaimed state of emergency and has determined, by majority vote, that, as a result of the emergency, meeting in person would present imminent risks to the health or safety of attendees.

In accordance with AB No. 361, when a board wants to continue holding virtual meetings because a state of emergency continues, the board must make findings every 30 days that 1) the Board has reconsidered the circumstances of the state of emergency and 2) the state of emergency continues to directly impact the ability of the members to meet safely in person or state or local officials continue to impose or recommend measures to promote social distancing.

The County of Orange Health Officer's Orders and Strong Recommendations, revised August 19, 2022 (attached), contain a "strong recommendation" that vulnerable populations, including older persons and individuals with underlying health conditions, take preventive measures for Covid-19 including social distancing and mask-wearing when around people from different households. The Covid-19 data and information provided below is posted on the Orange County Health Care Agency's website as of 8/23/2022:

- Cumulative Cases: 655,512
- Daily Positive Cases: 1,950
- Cumulative Deaths: 7,330
- Daily (new) Deaths Reported Today: 27
- Cumulative PCR Tests: 9,850,366
- Weekly PCR Tests: 41,779
- Cases Currently Hospitalized: 259
- Cases Currently in ICU: 35

The most recent Orange County Covid-19 related information is available on the OCHCA website, and can be found at <https://occovid19.ochealthinfo.com/> (the link updates as information changes).

THEREFORE, IN LIGHT OF THE ABOVE, STAFF RECOMMENDS THE BOARD OF DIRECTORS APPROVE THE FOLLOWING FINDINGS AND ACTIONS:

- A. The Board hereby FINDS AND DECLARES that it has considered the circumstances of the proclaimed state of emergency declared by the Governor on March 4, 2020 relating to the Covid-19 pandemic;
- B. Based on the information provided in this staff report and pursuant to the information and discussion presented in the September 1, 2022 Board meeting, the Board hereby FINDS AND DECLARES that as a result of the Covid-19 pandemic, meeting in person presents imminent risks to the health or safety of attendees, and directly impacts the ability of the members to meet safely in person; and that state and/or local officials continue to impose or recommend measures to promote social distancing;
- C. The Board hereby makes these findings and approves for the upcoming 30-day period, September 1, 2022 to October 1, 2022, regular and special meetings of the SOCWA Board and its Standing Committees and Project

Committees may continue to be virtual meetings held in accordance with AB 361's Public Notice and Public Participation requirements.

- D. The Board of Directors hereby delegates authority to the Standing Committees of SOCWA to make the necessary findings to continue holding virtual meetings in accordance with AB 361 if necessary.
- E. Staff is hereby directed to notice the upcoming board and committee meetings as virtual meetings if the proclaimed state of emergency remains, unless staff makes special arrangements to hold the Board or Committee Meetings at a location that will allow for social distancing in which case the meeting may be held in person, and to place AB 361 findings on the agenda for consideration at the next occurring meeting(s) so that, at that point in time, a determination can be made regarding whether as a result of the emergency, meeting in person would continue to present imminent risks to the health or safety of attendees.



REGINA CHINSIO-KWONG, DO
COUNTY HEALTH OFFICER

MATTHEW ZAHN, MD
DEPUTY COUNTY HEALTH OFFICER/MEDICAL DIRECTOR CDCD

405 W. 5TH STREET, 7TH FLOOR
SANTA ANA, CA 92701
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**COUNTY OF ORANGE HEALTH OFFICER'S
ORDERS AND STRONG RECOMMENDATIONS
(Revised August 19, 2022)**

In light of recent Face Mask Guidance issued by the California Department of Public Health (CDPH) and certain recent orders issued by the State Public Health Officer regarding COVID-19 vaccine requirements, the following Orders and Strong Recommendations shall revise and replace the prior Orders and Strong Recommendations of the County Health Officer that were issued on June 15, 2022. The Orders and Strong Recommendations issued on June 15, 2022, are no longer in effect as of August 19, 2022.

Pursuant to California Health and Safety Code sections 101030, 101040, 101470, 120175, and 120130, the County Health Officer for County of Orange orders and strongly recommends the following:

ORDERS

Effective immediately, and continuing until further notice, the following shall be in effect in unincorporated and incorporated territories of Orange County, California:

I. Self-Isolation of Persons with COVID-19 Order

NOTE: This Self-Isolation Order DOES NOT in any way restrict access by first responders to an isolation site during an emergency.

1. Persons who are symptom-free but test positive for COVID-19.
If you do not have any COVID-19 symptoms (as defined below in this Order) but test positive for COVID-19, you shall immediately isolate yourself in your home or another suitable place for at least 5 days from the date you test positive and may end your self-isolation after day 5:

- If you continue not having any COVID-19 symptoms and a diagnostic specimen collected on day 5 or later tests negative.
 - While an antigen test, nucleic acid amplification test (NAAT), or LAMP test are acceptable, use of an antigen test is recommended. Use of Over-the-Counter tests are also acceptable to end isolation.

Exceptions.

- If you are unable or choose not to test on day 5 or after, or if you test positive after day 5, you shall continue your self-isolation through day 10 from the date of your initial positive test and may end your self-isolation after 10 days from the date of your initial positive test.
- If you develop COVID-19 symptoms during the time of your self-isolation, you shall isolate yourself for at least 10 days from the date of symptom(s) onset. You may end your self-isolation sooner if a diagnostic specimen collected on day 5 (or later) from the date of symptom(s) onset tests negative.

All persons who test positive for COVID-19 should continue to wear a well-fitting mask at all times around other people through day 10.

2. Persons who have COVID-19 symptoms.

If you have COVID-19 symptoms, you shall immediately isolate yourself in your home or another suitable place for 10 days from the date of your symptom(s) onset and may end your self-isolation sooner under any of the following conditions:

- If a diagnostic specimen collected as early as the date of your symptom(s) onset tests negative.

II. While an antigen test, nucleic acid amplification test (NAAT), or LAMP test are acceptable, use of an antigen test is recommended. Use of Over-the-Counter tests are also acceptable to end isolation.

- Note: A negative PCR or antigen test collected on day 1-2 of symptom onset should be repeated in 1-2 days to confirm negative status. While isolation may end after the first negative test, it is strongly recommended to end isolation upon negative results from the repeat test.

III. If you obtain an alternative diagnosis from a healthcare provider.

Exception:

If you have COVID-19 symptoms and test positive for COVID-19, you shall isolate yourself for at least 10 days from the date of symptom(s) onset. You may end your self-isolation sooner if a diagnostic specimen collected on day 5 (or later) from the date of symptom(s) onset tests negative.

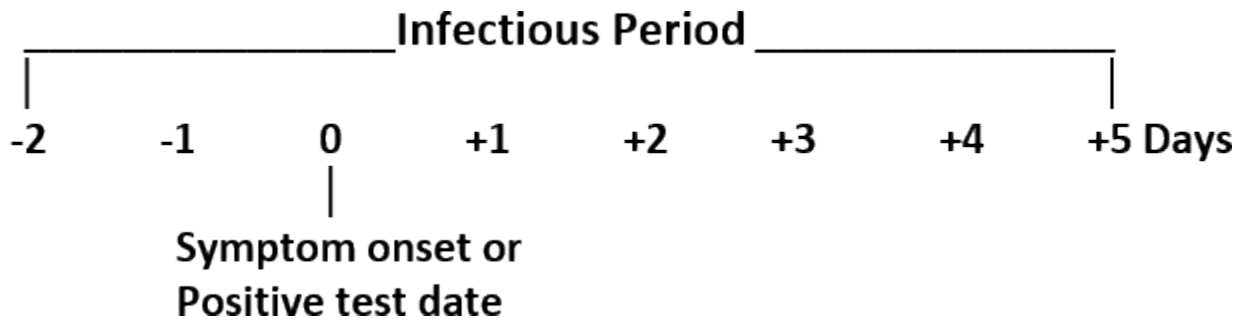
You are not required to self-isolate for more than 10 days from the date of your COVID-19 symptom(s) onset regardless of whether your symptoms are present on Day 11.

All persons who have COVID-19 symptoms should continue to wear a well-fitting mask at all times around other people through at least Day 10.

3. Additional Considerations for Self-Isolation.

- A person who is self-isolated may not leave his or her place of isolation except to receive necessary medical care.
- If a more specific and individualized isolation order is issued by the County Health Officer for any county resident, the resident shall follow the specific order instead of the order herein.
- People who are severely ill with COVID-19 might need to stay in self-isolation longer than 5 days and up to 20 days after symptoms first appeared. People with weakened immune systems should talk to their healthcare provider for more information.
- Rebound: Regardless of whether an individual has been treated with an antiviral agent, risk of transmission during COVID-rebound can be managed by following CDC's guidance on isolation (<https://www.cdc.gov/coronavirus/2019-ncov/your-health/quarantine-isolation.html>). An individual with rebound may end re-isolation after 5 full days of isolation with resolution of their fever for 24 hours without the use of fever-reducing medication and if symptoms are improving. The individual should wear a mask for a total of 10 days after rebound symptoms started.
 - More information can be found at <https://www.cdph.ca.gov/Programs/OPA/Pages/CAHAN/CAHAN-Paxlovid-Recurrence-06-07-22.aspx>.

Timing for "Day 0" - As noted in CDPH Isolation and Quarantine Q&A, the 5-day clock for isolation period starts on the date of symptom onset or (day 0) for people who test positive after symptoms develop, or initial test positive date (day 0) for those who remain asymptomatic. If an asymptomatic person develops symptoms, and test positive, date of symptom onset is day 0.



NOTE: In workplaces, employers and employees are subject to the Isolation and quarantine requirements as stated in the CalOSHA COVID-19 Emergency Temporary Standards (ETS) as modified by the Governor's Executive Order N-5-22 or in some workplaces the Cal/OSHA Aerosol transmissible Diseases (ATD) Standard. Information about CalOSHA COVID-19 Emergency Temporary Standards (ETS) can be found at <https://www.dir.ca.gov/dosh/coronavirus>.

Definition.

Whenever the term "symptom" or "*COVID-19 symptom*" is used, it shall mean COVID-19 symptom. People with COVID-19 have had a wide range of symptoms reported – ranging from mild symptoms to severe illness. Symptoms may appear 2-14 days after exposure to the virus. Anyone can have mild to severe symptoms. People with these symptoms may have COVID-19:

- Fever or chills
- Cough
- Shortness of breath or difficulty breathing
- Fatigue
- Muscle or body aches
- Headache

- New loss of taste or smell
- Sore throat
- Congestion or runny nose
- Nausea or vomiting
- Diarrhea
- The list above does not include all possible symptoms.

IV. Face-Coverings/Masks:

To help prevent the spread of droplets containing COVID-19, all County residents and visitors are required to wear face coverings in accordance with the Guidance for the Use of Face Coverings issued by CDPH, dated April 20, 2022. The Guidance is attached herein as Attachment "A" and can be found at:

A: <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/guidance-for-face-coverings.aspx>.

Masks are required for all individuals in the following indoor settings, regardless of vaccination status:

- Emergency shelters and cooling and heating centers.
- Healthcare settings (applies to all healthcare settings, including those that are not covered by State Health Officer Order issued on July 26, 2021).
- Local correctional facilities and detention centers.
- Long Term Care Settings & Adult and Senior Care Facilities.

NOTE:

1) When using public transit, individuals shall follow the guidance and requirements set by the Federal government. More information about the guidance on public transportation can be found at <https://www.cdc.gov/quarantine/masks/face-masks-public-transportation.html>.

2) In workplaces, employers are subject to the Cal/OSHA COVID-19 Prevention Emergency Temporary Standards (ETS) or in some workplaces the Cal/OSHA Aerosol

Transmissible Diseases (ATD) Standard (PDF) and should consult those regulations for additional applicable requirements, as modified by the Governor's Executive Order N-5-22. Additional information about how CDPH isolation and quarantine guidance affects ETS-covered workplaces may be found in Cal/OSHA FAQs.

3) In accordance with State Health Officer Order, issued on July 26, 2021, and found at <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Order-of-the-State-Public-Health-Officer-Unvaccinated-Workers-In-High-Risk-Settings.aspx>, in certain healthcare situations or settings, surgical masks are required.

No person shall be prevented from wearing a mask as a condition of participation in an activity or entry into a business.

No person shall be prevented from wearing a mask as a condition of participation in an activity or entry into a business.

Exemptions to masks requirements.

The following individuals are exempt from this mask order:

- Persons younger than two years old.
- Persons with a medical condition, mental health condition, or disability that prevents wearing a mask. This includes persons with a medical condition for whom wearing a mask could obstruct breathing or who are unconscious, incapacitated, or otherwise unable to remove a mask without assistance.
- Persons who are hearing impaired, or communicating with a person who is hearing impaired, where the ability to see the mouth is essential for communication.
- Persons for whom wearing a mask would create a risk to the person related to their work, as determined by local, state, or federal regulators or workplace safety guidelines.
- Additional exceptions to masking requirements in high-risk settings can be found at <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Face-Coverings-QA.aspx>.

V. Health Care Workers COVID-19 Vaccine Requirement Order: To help prevent transmission of COVID-19, all workers who provide services or work in facilities described below shall comply with the COVID-19 vaccination and booster dose requirements as set forth in the February 22, 2022, State Health Officer Order. A copy of the State Health Officer Order is attached herein as Attachment "B" and can be found at the following link:

B: <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Order-of-the-State-Public-Health-Officer-Health-Care-Worker-Vaccine-Requirement.aspx>

Facilities covered by this order include:

- General Acute Care Hospitals
- Skilled Nursing Facilities (including Subacute Facilities)
- Intermediate Care Facilities
- Acute Psychiatric Hospitals
- Adult Day Health Care Centers
- Program of All-Inclusive Care for the Elderly (PACE) and PACE Centers
- Ambulatory Surgery Centers
- Chemical Dependency Recovery Hospitals
- Clinics & Doctor Offices (including behavioral health, surgical)
- Congregate Living Health Facilities
- Dialysis Centers
- Hospice Facilities
- Pediatric Day Health and Respite Care Facilities
- Residential Substance Use Treatment and Mental Health Treatment Facilities

The word, "worker," as used in this Order shall have the same meaning as defined in the State Health Officer's Order, dated December 22, 2021.

VI. Requirements and Guidance for Specific Facilities

Requirements for COVID-19 Vaccination Status Verification, COVID-19 Testing, and Masking for Certain Facilities.

To help prevent transmission of COVID-19, all facilities described below shall comply with the State Health Officer Order, issued on July 26, 2021 and effective August 9,

2021. A copy of the State Health Officer Order is attached herein as Attachment "C" and can be found at the following link:

C: <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Order-of-the-State-Public-Health-Officer-Unvaccinated-Workers-In-High-Risk-Settings.aspx>

Facilities covered by this order include:

- Acute Health Care and Long-Term Care Settings:
 - General Acute Care Hospitals
 - Skilled Nursing Facilities (including Subacute Facilities)
 - Intermediate Care Facilities
- High-Risk Congregate Settings:
 - Adult and Senior Care Facilities
 - Homeless Shelters
 - State and Local Correctional Facilities and Detention Centers
- Other Health Care Settings:
 - Acute Psychiatric Hospitals
 - Adult Day Health Care Centers
 - Adult Day Programs Licensed by the California Department of Social Services
 - Program of All-Inclusive Care for the Elderly (PACE) and PACE Centers
 - Ambulatory Surgery Centers
 - Chemical Dependency Recovery Hospitals
 - Clinics & Doctor Offices (including behavioral health, surgical)
 - Congregate Living Health Facilities
 - Dental Offices
 - Dialysis Centers
 - Hospice Facilities

- Pediatric Day Health and Respite Care Facilities
- Residential Substance Use Treatment and Mental Health Treatment Facilities
- **Requirements for COVID-19 Vaccine Status Verification and COVID-19 Testing for School Workers in Transitional Kindergarten through Grade 12.**

To prevent the further spread of COVID-19 in K-12 school settings, all public and private schools serving students in transitional kindergarten through grade 12 shall comply with the State Health Officer Order, effective August 12, 2021, regarding verification of COVID-19 vaccination status and COVID-19 testing of all workers. A copy of the State Health Officer Order is attached herein as Attachment "D" and can be found at the following link:

D: <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Order-of-the-State-Public-Health-Officer-Vaccine-Verification-for-Workers-in-Schools.aspx>

This Order does not apply to (i) home schools, (ii) child care settings, or (iii) higher education.

- **Local Correctional Facilities and Detention Centers Health Care Worker Vaccination Requirement.**

To prevent the further spread of COVID-19 in local correctional facilities and detention centers, all individuals identified in the State Health Officer Order, effective December 22, 2021, shall comply with the State Health Officer's Order with regards to obtaining COVID-19 vaccination and booster doses. A copy of the State Health Officer Order is attached herein as Attachment "E" and can be found at the following link:

E: <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Order-of-the-State-Public-Health-Officer-Health-Care-Worker-Vaccine-Requirement.aspx>

- **Adult Care Facilities and Direct Care Worker Vaccination Requirements.**

To help prevent transmission of COVID-19, all individuals specified below shall comply with the COVID-19 vaccination and booster dose requirements as set forth in the February 22, 2022, State Health Officer Order. A copy of the State

Health Officer Order is attached herein as Attachment "F" and can be found at the following link:

F: <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Order-of-the-State-Public-Health-Officer-Adult-Care-Facilities-and-Direct-Care-Worker-Vaccine-Requirement.aspx>

Individuals covered by this order include:

- All workers who provide services or work in Adult and Senior Care Facilities licensed by the California Department of Social Services;
- All in-home direct care services workers, including registered home care aides and certified home health aides, except for those workers who only provide services to a recipient with whom they live or who are a family member of the recipient for whom they provide services;
- All waiver personal care services (WPCS) providers, as defined by the California Department of Health Care Services, and in-home supportive services (IHSS) providers, as defined by the California Department of Social Services, except for those workers who only provide services to a recipient with whom they live or who are a family member of the recipient for whom they provide services;
- All hospice workers who are providing services in the home or in a licensed facility; and
- All regional center employees, as well as service provider workers, who provide services to a consumer through the network of Regional Centers serving individuals with developmental and intellectual disabilities, except for those workers who only provide services to a recipient with whom they live or who are a family member of the recipient for whom they provide services.

7. **Requirements for Visiting Acute Health Care and Long-Term Care Settings.**

To help prevent transmission of COVID-19, all acute health care and long-term care settings shall comply with the indoor visitation requirements set forth in the State Health Officer issued February 7, 2022. A copy of the State Health Officer Order is attached herein as Attachment "G" and can be found at the following link:

G. <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Order-of-the-State-Public-Health-Officer-Requirements-for-Visitors-in-Acute-Health-Care-and-Long-Term-Care-Settings.aspx>

VII. Seasonal Flu Vaccination Order:

Seasonal Flu Vaccination for Certain County Residents.

All individuals who reside or work in Orange County and fall under one of the following categories, shall obtain the seasonal flu vaccination unless a medical or religious exemption applies: (i) current providers for congregate settings; (ii) current health care providers; and (iii) current emergency responders. However, nothing herein shall be construed as an obligation, on the part of employers, public or private, to require employees obtain the seasonal flu vaccination as a term or condition of employment.

- *Emergency responder* shall mean military or national guard; law enforcement officers; correctional institution personnel; fire fighters; emergency medical services personnel; physicians; nurses; public health personnel; emergency medical technicians; paramedics; emergency management personnel; 911 operators; child welfare workers and service providers; public works personnel; and persons with skills or training in operating specialized equipment or other skills needed to provide aid in a declared emergency; as well as individuals who work for such facilities employing these individuals and whose work is necessary to maintain the operation of the facility.
- *Health care provider* shall mean physicians; psychiatrists; nurses; nurse practitioners; nurse assistants; medical technicians; any other person who is employed to provide diagnostic services, preventive services, treatment services or other services that are integrated with and necessary to the provision of patient care and, if not provided, would adversely impact patient care; and employees who directly assist or are supervised by a direct provider of diagnostic, preventive, treatment, or other patient care services; and employees who do not provide direct health care services to a patient but are otherwise integrated into and necessary to the provision those services – for example, a laboratory technician who processes medical test results to aid in the diagnosis and treatment of a health condition. A person is not a health care provider merely because his or her employer provides health care services or because he or she provides a service that affects the provision of health care services. For example, IT professionals, building maintenance staff, human resources personnel, cooks, food services workers, records managers, consultants, and billers are not health care providers, even if they work at a hospital of a similar health care facility.

STRONG RECOMMENDATIONS

Effective immediately, and continuing until further notice, the following shall be in effect in unincorporated and incorporated territories in Orange County, California:

1. **Self-quarantine of Persons Exposed to COVID-19**

- If you are known to be exposed to COVID-19 (regardless of vaccination status, prior disease, or occupation), it is strongly recommended to follow CDPH Quarantine guidance found at <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Guidance-on-Isolation-and-Quarantine-for-COVID-19-Contact-Tracing.aspx>.
- **K-12 Schools and Child Care**
 - Schools/school districts are advised to follow CDPH COVID-19 Public Health Guidance for K-12 Schools in California, 2022-2023 School Year found at: <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/K-12-Guidance-2022-23-School-Year.aspx>
 - Child care providers and programs are advised to follow CDPH Guidance for Child Care Providers and Programs found at: <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/Child-Care-Guidance.aspx>.
- **Workplaces**
 - In workplaces, employers and employees are subject to the Quarantine requirement as stated in the Cal/OSHA COVID-19 Emergency Temporary Standards (ETS) as modified by the Governor's Executive Order N-5-22 or in some workplaces the Cal/OSHA Aerosol Transmissible Diseases (ATD) Standard.

Exposed to COVID-19 or exposure to COVID-19 means sharing the same indoor space (e.g. home, clinic waiting room, airplane, etc.) for a cumulative total of 15 minutes or more over a 24-hour period (for example, three individual 5- minute exposures for a total of 15 minutes) during an infected person's (laboratory-confirmed or a clinical diagnosis) infectious period.

2. **For Vulnerable Populations.** In general, the older a person is, the more health conditions a person has, and the more severe the conditions, the more important it is to take preventive measures for COVID-19 such as getting vaccinated, including boosters, social distancing and wearing a mask when around people who don't live in the same household, and practicing hand hygiene. For more information see <https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/people-with-medical-conditions.html>.
3. **COVID-19 Vaccination for County Residents.** All Orange County residents should receive COVID-19 vaccination in accordance with the Federal Food and Drug Administration (FDA) and CDC guidance. Minors, who are eligible to receive COVID-19 vaccination in accordance with the applicable CDC guidelines, should be vaccinated in the presence of their parent or legal guardian.

CDC Guidance can be found at: <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/recommendations/specific-groups.html>

4. **Seasonal Flu Vaccination for County Residents.** All County residents who are six months of age or older should obtain the seasonal flu vaccination unless a medical or religious exemption applies.
5. **COVID-19 Vaccination and Testing for Emergency Medical Technicians, Paramedics and Home Healthcare Providers.** To help prevent transmission of COVID-19, it is strongly recommended that all Emergency Medical Technicians, Paramedics, and Home Healthcare Providers (including In Home Supportive Services Program workers) remain up-to-date as defined by CDC with COVID-19 vaccination. CDC Guidance can be found at: <https://www.cdc.gov/coronavirus/2019-ncov/vaccines/recommendations/specific-groups.html>
6. Furthermore, it is strongly recommended that all unvaccinated Emergency Medical Technicians, Paramedics, and Home Healthcare Providers (including In Home Supportive Services Program workers) undergo at least twice weekly testing for COVID-19 until such time they are fully vaccinated.

GENERAL PROVISIONS

1. The Orders and Strong Recommendations, above, shall not supersede any conflicting or more restrictive orders issued by the State of California or federal government. If any portion of this document or the application thereof to any person or circumstance is held to be invalid, the remainder of the document, including the application of such part or provision to other persons or circumstances, shall not be affected and shall continue in full force and effect. To this end, the provisions of the orders and strong recommendations are severable.
2. The Orders contained in this document may be enforced by the Orange County Sheriff or Chiefs of Police pursuant to California Health and Safety Code section 101029, and California Government Code sections 26602 and 41601. A violation of a health order is subject to fine, imprisonment, or both (California Health and Safety Code section 120295).

REASONS FOR THE ORDERS AND STRONG RECOMMENDATIONS

1. On February 26, 2020, the County of Orange Health Officer declared a Local Health Emergency based on an imminent and proximate threat to public health from the introduction of COVID-19 in Orange County.
2. On February 26, 2020, the Chairwoman of the Board of Supervisors, acting as the Chair of Emergency Management Council, proclaimed a Local Emergency in that the imminent and proximate threat to public health from the introduction of COVID-19 created

conditions of extreme peril to the safety of persons and property within the territorial limits of Orange County.

3. On March 2, 2020, the Orange County Board of Supervisors adopted Resolutions No. 20-011 and No. 20-012 ratifying the Local Health Emergency and Local Emergency, referenced above.
4. On March 4, 2020, the Governor of the State of California declared a State of Emergency to exist in California as a result of the threat of COVID-19.
5. As of August 19, 2022, the County has reported a total of 652,703 recorded confirmed COVID-19 cases and 7,280 of COVID-19 related deaths.
6. Safe and effective authorized COVID-19 vaccines are recommended by the CDC. According to CDC, anyone infected with COVID-19 can spread it, even if they do NOT have symptoms. The novel coronavirus is spread in 3 ways: 1) Breathing in air when close to an infected person who is exhaling small droplets and particles that contain the virus. 2) Having these small droplets and particles that contain virus land on the eyes, nose, or mouth, especially through splashes and sprays like a cough or sneeze. 3) Touching eyes, nose, or mouth with hands that have the virus on them. See <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/how-covid-spreads.html>.
7. The CDPH issued a revised Guidance for the Use of Face Coverings, effective April 20, 2022, available at: <https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/COVID-19/guidance-for-face-coverings.aspx>
8. According to the CDC and CDPH, older adults, individuals with medical conditions, and pregnant and recently pregnant persons are at higher risk of severe illness when they contract COVID-19. See <https://www.cdc.gov/coronavirus/2019-ncov/need-extra-precautions/index.html>
9. The Orders and the Strong Recommendations contained in this document are based on the following facts, in addition to the facts stated under the foregoing paragraphs: (i) Safe and effective FDA authorized COVID-19 vaccines have become widely available, but many Orange County residents have not yet had the opportunity to be vaccinated, or have not completed their vaccination series to be fully vaccinated or boosted; (ii) the current consensus among public health officials for slowing down the transmission of and avoiding contracting COVID-19 is for at-risk persons to complete a COVID-19 vaccination series and receive a booster if eligible, wear well-fitted mask in indoor settings when around others outside of their household, practice distancing, frequently wash hands with soap (iii) some individuals who contract COVID-19 have no symptoms or have only mild symptoms and so are unaware that they carry the virus and are transmitting it to others; (iv) current evidence shows that the novel coronavirus can survive on surfaces and can be indirectly transmitted between individuals; (v) older adults and individuals with medical conditions are at higher risk of severe illness; (vi) sustained COVID-19 community transmission continues to occur; (vii) the age, condition, and health of a portion of Orange County's residents place them at risk for serious health

complications, including hospitalization and death, from COVID-19; (viii) younger and otherwise healthy people are also at risk for serious negative health outcomes and for transmitting the novel coronavirus to others.

10. The orders and strong recommendations contained in this document are necessary and less restrictive preventive measures to control and reduce the spread of COVID-19 in Orange County, help preserve critical and limited healthcare capacity in Orange County and save the lives of Orange County residents.
11. The California Health and Safety Code section 120175 requires the County of Orange Health Officer knowing or having reason to believe that any case of a communicable disease exists or has recently existed within the County to take measures as may be necessary to prevent the spread of the disease or occurrence of additional cases.
12. The California Health and Safety Code sections 101030 and 101470 require the county health officer to enforce and observe in the unincorporated territory of the county and within the city boundaries located with a county all of the following: (a) Orders and ordinances of the board of supervisors, pertaining to the public health and sanitary matters; (b) Orders, including quarantine and other regulations, prescribed by the department; and (c) Statutes relating to public health.
13. The California Health and Safety Code section 101040 authorizes the County of Orange Health Officer to take any preventive measure that may be necessary to protect and preserve the public health from any public health hazard during any "state of war emergency," "state of emergency," or "local emergency," as defined by Section 8558 of the Government Code, within his or her jurisdiction. "Preventive measure" means abatement, correction, removal, or any other protective step that may be taken against any public health hazard that is caused by a disaster and affects the public health.
14. The California Health and Safety Code section 120130 (d) authorizes the County of Orange Health Officer to require strict or modified isolation, or quarantine, for any case of contagious, infectious, or communicable disease, when such action is necessary for the protection of the public health.

IT IS SO ORDERED:

Date: August 19, 2022



Regina Chinsio-Kwong, DO
County Health Officer
County of Orange

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

**Board of Directors
Budget Workshop**

DRAFT

May 19, 2022

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors Budget Workshop was held via teleconference on May 19, 2022, at 8:00 a.m. from their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Board of Directors were present via Zoom Meeting:

MIKE DUNBAR	Emerald Bay Service District	Director [exited @ 9:58 a.m./returned @ 10:30 a.m.]
KATHRYN FRESHLEY	El Toro Water District	Director
MATT COLLINGS	Moulton Niguel Water District	Director
STEPHEN DOPUDJA	Trabuco Canyon Water District	Director
DOUG REINHART	Irvine Ranch Water District	Director
TONI ISEMAN	City of Laguna Beach	Director
DAN FERONS	Santa Margarita Water District	Director
SCOTT GOLDMAN	South Coast Water District	Director
STEVE MAY	City of San Juan Capistrano	Alternate Director [exited @ 10:00 a.m.]

Absent:		
DAVE REBENS DORF	City of San Clemente	Director

Staff Present:		
BETTY BURNETT	General Manager	
JIM BURROR	Director of Operations	
MARY CAREY	Finance Controller	
DAVID BARANOWSKI	Senior Engineer	
RONI YOUNG	Associate Engineer	
AMBER BAYLOR	Director of Environmental Compliance	
KONSTANTIN SHILKOV	Senior Accountant	
NADYN KIM	Accounting	
ANNA SUTHERLAND	Accounts Payable	
DINA ASH	HR Administrator	
JEANETTE COTINOLA	Procurement/Contracts Manager	
SEAN PEACHER	Environmental Compliance Safety Risk Manager	
MATT CLARKE	IT Administrator	
DANITA HIRSH	Executive Assistant	

Also Present:			
ADRIANA OCHOA	Procopio Law	PAM ARENDS-KING	South Coast Water District
BRAD NEUFELD	Varner & Brandt LLC	KEVIN BURTON	Irvine Ranch Water District
DAVID SHISSLER	City of Laguna Beach	FERNANDO PALUDI	Trabuco Canyon Water District
OSMAN MUFTI	Sloan Sakai Law	ERICA CASTILLO	Santa Margarita Water District
MIKE GASKINS	El Toro Water District	ROD WOODS	Moulton Niguel Water District
PAUL CAUSEY	Causey Consulting	TREVOR AGRELIUS	Moulton Niguel Water District
RICK SHINTAKU	South Coast Water District	DON FROELICH	Moulton Niguel Water District
MARC SERNA	South Coast Water District		

1. Call to Order

Chairman Collings called the meeting to order at 8:02 a.m.

2. Pledge of Allegiance – Director Stephen Dopudja

3. Oral Communications

None.

4. AB 361 – Virtual Meeting Status

Ms. Burnett, General Manager reported on the status of polling the Board Member on their preference for continuing to conduct future meetings in person, virtual or hybrid (a combination of both in-person and virtual). She noted although the majority of the members were comfortable with returning to in-person meetings there were one or two members who are concerned with returning to the limited space at SOCWA’s Administration Building. Ms. Burnett continued by stating she is open to hearing comments from counsel regarding the continuation of AB361 findings. An open discussion ensued.

Ms. Adriana Ochoa, legal counsel (Procopio Law) commented that the hybrid scenario is difficult under AB361 do to if any technical issue were encountered, you would need to stop the meeting until such technical issues were resolved. She noted an in-person meeting would invoke the original Brown Act rules allowing the members of the public the option to attend in-person. However, the Board may as a policy decision provide virtual capabilities as a courtesy for public participation. An open discussion ensued.

Director Ferons stated out of the abundance of caution that the Board continue having AB361 on the agenda if the Board decides on in-person meetings going forward.

There was concurrence of the Board of Directors to address AB 361 findings at the next Regular Board Meeting on June 2, 2022.

5. Santa Margarita Water District’s (SMWD) Consideration for Board Action Concerning City of San Juan Capistrano (CSJC) Notice of Withdrawal

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Dunbar that the Board deem the notices of the City of San Juan Capistrano withdrawal from SOCWA as sufficient Notice of Withdrawal from SOCWA under section 12.3 of the Joint Powers Authority Agreement.

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

6. Budget Workshop

A. Approval of FY 2022-23 Budget

1. General Fund Budget

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Freshley to approve the General Fund Budget authorizing the General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

Motion carried: Aye 9, Nay 0, Abstained 0, Absent 1

Director Dunbar	Aye
Director Freshley	Aye
Director Dopudja	Aye
Director Collings	Aye
Director Reinhart	Aye
Director Iseman	Aye
Director Ferons	Aye
Director Goldman	Aye
Director May	Aye
Director Rebensdorf	Absent

2. Project Committee Operating Budgets

- a. Approval of the FY 2022-23 Administration Budget (inclusive of project committee administration expenses, residual engineering, and IT).

ACTION TAKEN

Motion was made by Director Freshley and seconded by Director Iseman to approve the FY 2022-23 Administration Budget authorizing the General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

Motion carried: Aye 7, Nay 1, Abstained 0, Absent 2
Exited @ 9:58 a.m.

Director Dunbar	Absent
Director Freshley	Aye
Director Dopudja	Aye
Director Collings	Nay
Director Reinhart	Aye
Director Iseman	Aye
Director Ferons	Aye
Director Goldman	Aye
Director May	Aye
Director Rebensdorf	Absent

- b. Approval of the Project Committee (“PC”) 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).

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Goldman to approve the Project Committee (“PC”) 2 Operations and Maintenance Budget and PC 2 Capital Expenditures Budget authorizing the General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

Motion carried: Aye 4, Nay 0, Abstained 0, Absent 0
Director Collings Aye
Director Ferons Aye
Director Goldman Aye
Director May Aye

- c. Approval of the Project Committee (“PC”) 17 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL and OPEB) and PC 17 Capital Expenditures Budget (inclusive of large capital, non-capital/misc. engineering and small capital).

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Freshley to approve the Project Committee (“PC”) 17 Operations and Maintenance Budget and PC 17 Capital Expenditures Budget authorizing the General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

Motion carried: Aye 4, Nay 0, Abstained 0, Absent 1
Exited @ 9:58 a.m. Director Dunbar Absent
Director Freshley Aye
Director Collings Aye
Director Iseman Aye
Director Goldman Aye

- d. Approval of the Project Committee (“PC”) 15 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL and OPEB) and PC 15 Capital Expenditures Budget (inclusive of large capital, non-capital/misc. engineering and small capital).

ACTION TAKEN

Motion was made by Director Dunbar and seconded by Director Iseman to approve the Project Committee (“PC”) 15 Operations and Maintenance Budget and PC 15 Capital Expenditures Budget authorizing the General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

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

(*note: agenda item 2d was addressed prior to Director Dunbar exiting the meeting at 9:58 a.m.)

- e. Approval of the Project Committee (“PC”) 5 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL and OPEB) and PC 5 Capital Expenditures Budget (inclusive of large capital and non-capital/misc. engineering).

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Collings to approve the Project Committee (“PC”) 5 Operations and Maintenance Budget and PC 5 Capital Expenditures Budget authorizing the General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

Motion carried: Aye 4, Nay 0, Abstained 0, Absent 1
Director Collings Aye
Director Ferons Aye
Director Goldman Aye
Director May Aye
Director Rebensdorf Absent

- f. Approval of the Project Committee (“PC”) 24 Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL and OPEB) and PC 24 Capital Expenditures Budget (inclusive of large capital and non-capital/misc. engineering).

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Freshley to

Motion carried: Aye 5, Nay 0, Abstained 0, Absent 1
Director Dunbar Absent
Director Freshley Aye
Director Collings Aye
Director Reinhart Aye
Director Iseman Aye
Director Goldman Aye

- g. Approval of the Project Committee (“PC”) 21 (ETM) Operations and Maintenance Budget, UAL and OPEB and PC 21 Capital Expenditures Budget (inclusive of large capital and non-capital/misc. engineering).

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Freshley to approve the Project Committee (“PC”) 21 (ETM) Operations and Maintenance Budget and PC 21 Capital Expenditures Budget authorizing the General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

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

- h. Approval of the Project Committee (“PC”) 8 (Pretreatment) Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, UAL and OPEB).

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Feron to approve the Project Committee (“PC”) 8 (Pretreatment) Operations and Maintenance Budget authorizing the General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action; the Board approves the allocation of expenses with approval of the Budget.

Motion carried: Aye 7, Nay 0, Abstained 0, Absent 2
Director Dunbar Absent
Director Freshley Aye
Director Collings Aye
Director Reinhart Aye
Director Iseman Aye
Director Feron Aye
Director Goldman Aye
Director May Aye
Director Rebensdorf Absent

- i. Approval of the Project Committee (“PC”) 2SO (PC12) Operations and Maintenance Budget (inclusive of Environmental Compliance, Safety, IT, UAL and OPEB).

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Feron to approve the Project Committee (“PC”) 2SO (PC12) Operations and Maintenance Budget authorizing the General Manager to expend up to and not more than the total budget funds per the purchasing and/or emergency services policy; funding in excess of the authorized budget requires additional Board action. Authorization includes the redistribution of the costs of PC 2SO (PC 12) among the member agencies to exclude El Toro Water District and Irvine Ranch Water District); the Board approves the allocation of expenses with approval of the Budget.

Motion carried: Aye 5, Nay 0, Abstained 0, Absent 0
Director Dopudja Aye
Director Collings Aye
Director Feron Aye
Director Goldman Aye
Director May Aye

- j. The Board directs staff to prepare and distribute a final printed budget consistent with any additional changes presented and approved at the May 19, 2022, meeting.

There was concurrence of the Board of Directors to prepare and distribute a final printed budget consistent with any additional changes presented and approved at the May 19, 2022, meeting.

8. Facilitated Services – Alternate Wastewater Delivery

Board discussion ensued with the concurrence to obtain a written report from the consultant (*total value \$33,000.*)

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Reinhart to authorize the Board Chair to issue a contract to Ohlund Management & Technical Services to provide Facilitated Services including the option to provide full report that provides all member agencies input, feedback, and comments.

Motion carried:	Aye 5, Nay 4, Abstained 0, Absent 1
	Director Dunbar Aye
	Director Freshley Nay
	Director Dopudja Aye
	Director Collings Aye
	Director Reinhart Aye
	Director Iseman Aye
	Director Ferons Nay
	Director Goldman Nay
	Director May Nay
	Director Rebensdorf Absent

9. FY2021/22 O&M Budget Update and Proposed Budget Amendments [PC 2 and PC 17]

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Collings to approve PC 2 JBL budget line items be amended by \$430,000 and allocated as reported; and to approve PC 17 RTP budget line items be amended by \$100,000 and allocated as reported.

Motion carried:	Aye 6, Nay 0, Abstained 0, Absent 1
PC 17	Director Dunbar Aye
PC 17	Director Freshley Aye
PC 2/PC 17	Director Collings Aye
PC 17	Director Iseman Aye
PC 2	Director Ferons Aye
PC 2/PC 17	Director Goldman Aye
PC 2	Director May Absent

[exited @ 10:00 a.m.]

The Board convened to Closed Session at 10:01 a.m.
The Board reconvened to Open Session at 10:31 a.m.

7. Closed Session

- a. A Closed Session was held pursuant to Government Code Section § 54957.6 to conference with Labor Negotiators, and Agency designated negotiators; and
- b. A Closed Session was held pursuant to Government Code Section § 54956.9(d), paragraph 2 regarding significant exposure to litigation – one potential case.

There were no reportable actions.

10. Resolution No. 2022-01 - A Resolution Approving New Side Letter of Agreement No. 4 to The 2020-2023 Memorandum of Understanding between The South Orange County Wastewater Authority and The SOCWA Employee Association

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Dunbar to approve Resolution No. 2022-01, A Resolution Approving New Side Letter of Agreement No. 4 to the 2020-2023 Memorandum of Understanding between the South Orange County Wastewater Authority and the SOCWA Employee Association.

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

Director Dunbar	Aye
Director Freshley	Aye
Director Dopudja	Aye
Director Collings	Aye
Director Reinhart	Aye
Director Iseman	Aye
Director Ferons	Aye
Director Goldman	Aye
Director May	Absent
Director Rebensdorf	Absent

11. BioRad QX200 Instrument Purchase for \$159,214 (plus tax and shipping) [Project Committees 5 and 24]

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Dunbar to Authorize a small capital budget in the amount of \$80,500 (PC 5), and \$80,500 (PC 24), and staff is authorized to adjust the budget as needed to cover tax and shipping; and authorize the purchase of the BioRad ddPCR QX200 in the amount of \$159,214 (plus tax and shipping to be determined at the time of shipping).

Motion carried: Aye 7, Nay 0, Abstained 0, Absent 2

PC 24	Director Dunbar	Aye
PC 24	Director Freshley	Aye
PC 5/PC 14	Director Collings	Aye
PC 24	Director Reinhart	Aye
PC 24	Director Iseman	Aye
PC 5	Director Ferons	Aye
PC 5/PC 24	Director Goldman	Aye
PC 5	Director May	Absent
PC 5	Director Rebensdorf	Absent

12. An amendment to the Butier Engineering Contract for Construction Management, Inspection and Other Related Services for the JBL Package B Project [Project Committee 2]

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Collings to approve an Amendment 2 to the Butier Engineering contract for construction management, inspection, and other related services for the Package B Project in the amount of \$392,535.

(continuation of agenda item 12)

Motion carried:	Aye 4, Nay 0, Abstained 0, Absent 0
	Director Collings Aye
	Director Ferons Aye
	Director Goldman Aye
	Director May Aye

13. OTHER MATTERS

None.

14. Board of Directors Offices – Appointment of Nominating Committee

There was consensus of the Board of Directors to discuss this at the Regular Board meeting on June 2, 2022, at which the Board Chair will appoint a Nominating Committee.

ADJOURNMENT

There being no further business, Director Collings adjourned the meeting at 10:39 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 May 19, 2022 and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

**MINUTES OF REGULAR MEETING
OF THE
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
Board of Directors**

DRAFT

August 4, 2022

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors was held in-person and via teleconference on August 4, 2022, at 8:30 a.m. at the Santa Margarita Water District located at 26111 Antonio Parkway, Rancho Santa Margarita, California. The following members of the Board of Directors were present for the Meeting:

KATHRYN FRESHLEY	El Toro Water District	Director [in-person]
MATT COLLINGS	Moulton Niguel Water District	Director [in-person]
STEPHEN DOPUDJA	Trabuco Canyon Water District	Director [in-person]
DOUG REINHART	Irvine Ranch Water District	Director [in-person]
DAVID SHISSLER	City of Laguna Beach	Alternate Director [in-person]
DAN FERONS	Santa Margarita Water District	Director [in-person]
SCOTT GOLDMAN	South Coast Water District	Director [in-person]
DAVE REBENS DORF	City of San Clemente	Director [Zoom] [arrived @ 8:32 a.m.]

Absent:

MIKE DUNBAR	Emerald Bay Service District	Director
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Staff Present:

BETTY BURNETT	General Manager
JIM BURROR	Director of Operations
MARY CAREY	Finance Controller
DAVID BARANOWSKI	Senior Engineer
RONI YOUNG	Associate Engineer
AMBER BAYLOR	Director of Environmental Compliance
KONSTANTIN SHILKOV	Senior Accountant
NADYN KIM	Accounting
ANNA SUTHERLAND	Accounts Payable
DINA ASH	HR Administrator
JEANETTE COTINOLA	Procurement/Contracts Manager
SEAN PEACHER	Environmental Compliance Safety Risk Manager
MATT CLARKE	IT Administrator
DANITA HIRSH	Executive Assistant

Also Present:

GREG MOSER	Procopio Law
BRAD NEUFELD	Varner & Brandt LLC
DENNIS CAFFERTY	El Toro Water District
MIKE GASKINS	El Toro Water District
RICK SHINTAKU	South Coast Water District
MARC SERNA	South Coast Water District
PAM ARENDS-KING	South Coast Water District
HANNAH BROIDA	City of Laguna Beach
MICHAEL PEREA	Trabuco Canyon Water District
ERICA CASTILLO	Santa Margarita Water District
DON FROELICH	Moulton Niguel Water District
SHERRY WANNIGER	Moulton Niguel Water District
ROD WOODS	Moulton Niguel Water District
SANDRA JACOBS	Santa Margarita Water District

1. Call to Order

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

2. Pledge of Allegiance – Director Dan Ferons

3. Oral Communications

None.

4. AB 361 – ALLOWING FOR VIRTUAL MEETINGS – Findings and Approval to continue Virtual Meetings

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Freshley to approve the findings and actions:

- A. The Board hereby FINDS AND DECLARES that it has considered the circumstances of the proclaimed state of emergency declared by the Governor on March 4, 2020 relating to the Covid-19 pandemic;
- B. Based on the information provided in this staff report and pursuant to the information and discussion presented in the August 4, 2022 Board meeting, the Board hereby FINDS AND DECLARES that as a result of the Covid-19 pandemic, meeting in person presents imminent risks to the health or safety of attendees, and directly impacts the ability of the members to meet safely in person; and that state and/or local officials continue to impose or recommend measures to promote social distancing;
- C. The Board hereby makes these findings and approves for the upcoming 30-day period, August 4, 2022 to September 3, 2022, regular and special meetings of the SOCWA Board and its Standing Committees and Project Committees may continue to be virtual meetings held in accordance with AB 361's Public Notice and Public Participation requirements.
- D. Staff is hereby directed to notice the upcoming board and committee meetings as a virtual meeting if the proclaimed state of emergency remains, unless staff makes special arrangements to hold the Board or Committee Meetings at a location that will allow for social distancing in which case the meeting may be held in person, and to place AB 361 findings on the agenda for consideration at the next occurring meeting(s) so that, at that point in time, a determination can be made regarding whether as a result of the emergency, meeting in person would continue to present imminent risks to the health or safety of attendees. The Board of Directors hereby delegates authority to the Standing Committees of SOCWA to make findings pursuant to Government Code 54953(e) at a duly noticed public meeting in order to remain in compliance with AB 361.

Motion carried:	Aye 7, Nay 0, Abstained 1, Absent 1
	Director Dunbar Absent
	Director Freshley Aye
	Director Dopudja Aye
	Director Collings Aye
	Director Reinhart Abstain
	Director Shissler Aye
	Director Ferons Aye
	Director Goldman Aye
	Director Rebensdorf Aye

5. BOARD OF DIRECTORS OFFICES – Nominating of Board Chair & Vice Chair

Director Goldman reported that the Nominating Committee recommends continuation of Director Collings serving as Board Chair, and Director Dopudja as Board Vice Chair for Fiscal Year 2022-23. An open discussion ensued.

ACTION TAKEN

Motion was made by Director Freshley and seconded by Director Goldman to approve the recommendation of the Nominating Committee.

Motion carried:	Aye 8, Nay 0, Abstained 0, Absent 1
Director Dunbar	Absent
Director Freshley	Aye
Director Dopudja	Aye
Director Collings	Aye
Director Reinhart	Aye
Director Shissler	Aye
Director Ferons	Aye
Director Goldman	Aye
Director Rebensdorf	Aye

6. SANTA MARGARITA WATER DISTRICT DRAFT 2023-24 OPERATION PLAN JBL

An open discussion ensued regarding Santa Margarita Water District's (SMWD) proposal to acquire the JB Latham Plant and its related assets including assignment of all current contracts for services and supplies including professional and construction from SOCWA under a new operating agreement. SMWD proposed a new operating agreement with South Coast Water District (SCWD), and Moulton Niguel Water District (MNWD) with SMWD owning and operating the plant giving SCWD and MNWD capacity rights within the plant. SMWD requested initiating a series of PC 2 meeting to address future options.

This was an information item; no action was taken.

7. CONSENT CALENDAR

Director Collings pulled agenda item 7.A.1 Board Minutes of May 19, 2022, to verify voting results on item 9, and to bring the Minutes back to the next Board meeting in September.

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Goldman to approve the remaining Consent Calendar as submitted.

(7.A.2. thru 7.G.)

- A 2. Minutes of Regular Board of Directors June 2, 2022
- B Minutes of Executive Committee May 10, 2022
- C Minutes of PC-15 Committee June 9, 2022
- D Operations Reports (May 2022)
- E Operations Reports (June), Recycled Water Report, (May and June 2022)
- F Capital Improvement Construction Projects Progress and Change Order Report (June)

(Continuation of agenda item 7)

Motion carried: Aye 7, Nay 0, Abstained 1, Absent 1
Director Dunbar Absent
Director Freshley Aye
Director Dopudja Aye
Director Collings Aye
Director Reinhart Aye
Director Shissler Abstain
Director Ferons Aye
Director Goldman Aye
Director Rebensdorf Aye

8. ENGINEERING MATTERS

- A. Regional Treatment Plant AWT No. 2 Reconstruction Design and Construction Support Services [Project Committee 17]

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Freshley approve the design and construction support services contract to Carollo in an amount not to exceed \$164,834.00 for the Regional Treatment Plant AWT No. 2 Reconstruction Project.

Motion carried: Aye 4, Nay 0, Abstained 0, Absent 1
Director Dunbar Absent
Director Freshley Aye
Director Collings Aye
Director Shissler Aye
Director Goldman Aye

9. GENERAL MANAGER'S REPORT

- A. Small Capital Wemco 6X6 Model C Pump Purchase from Flo-Systems, Inc. For \$57,511.00 [Project Committee 17]

ACTION TAKEN

Motion was made by Director Goldman and seconded by Director Freshley to authorize the General Manager to purchase a Wemco 6X6 Model C Pump from Flo-Systems, Inc. at the cost of \$57,511.00, including shipping costs, fees, and additional tax that are determined at the time the units are shipped.

Motion carried: Aye 4, Nay 0, Abstained 0, Absent 1
Director Dunbar Absent
Director Freshley Aye
Director Collings Aye
Director Shissler Aye
Director Goldman Aye

- B. Small Capital Replacement Forklift Project for \$56,429.00 with Cal-Lift, Inc.
[Project Committee 17]

ACTION TAKEN

Motion was made by Director Freshley and seconded by Director Collings to authorize the General Manager to purchase an all-electric Clark GEX30S Triple Forklift 6,000Lb Capacity at the cost of \$56,429.00, including actual taxes, shipping costs, and additional fees that will be determined at the time the unit is shipped.

Motion carried: Aye 4, Nay 0, Abstained 0, Absent 1
Director Dunbar Absent
Director Freshley Aye
Director Collings Aye
Director Shissler Aye
Director Goldman Aye

- C. Sea Ventures Contract Amendment & Budget Addition to allow for Small Capital Purchase (Colored Dissolved Organic Matter – CDOM meter)

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Shissler to:

1. Authorize a revision to the PC 5 and 24 Budget for FY 2022-23 to increase offshore monitoring and effluent chemistry to \$90,000.
2. Authorize the addition to the PC 5 and 24 Budget for FY 2022-23 in the amount of \$10,000 for small equipment purchases. Funding will be utilized to purchase ECO CDOM – RT Base Model, mounting kit, and interface cable for \$6,294.25 from Atlantic Marine Center.
3. Authorize the General Manager to amend the Sea Ventures contract to \$90,000 per year (three-year contract) to effect compliance with the new NPDES permits for Project Committees 5 and 24.

Motion carried: Aye 7, Nay 0, Abstained 0, Absent 1
PC 24 Director Dunbar Absent
PC 24 *Director Freshley Aye
PC 5 & 24 Director Collings Aye
PC 24 Director Reinhart Aye
PC 24 Director Shissler Aye
PC 5 Director Ferons Aye
PC 5 & 24 Director Goldman Aye
PC 5 Director Rebensdorf Aye

*Director Freshley [exited @ 9:25 a.m.] [returned at 9:29 a.m.]

- D. General Counsel’s Updates (verbal reports)

General Counsel had no report.

- E. General Manager’s Reports

Ms. Burnett, General Manager gave a brief overview of the topics covered in the General Manager’s staff report.

This was an information item; no action was taken.

F. Upcoming Meetings Schedule

The upcoming meeting schedule was reported as noted below:

- August 4, 2022 – Joint PC-2 / Engineering Committee (following today's meeting)
- August 11 – Engineering Committee Regular Meeting
- August 16, 2022 – Finance Committee Special Meeting
- Aug / Sept 2022 – All Hands Meeting – *Actual Date To Be Determined*
- August 2022 – PC-15 Committee Meeting – *Actual Date to Be Determined to discuss CTP Capital Funding Options*
- September 1, 2022 – Board of Directors Regular Meeting

This was an information item; no action was taken.

The Board convened to Closed Session at 9:38 a.m.
The Board reconvened to Open Session at 10:32 a.m.

10. CLOSED SESSION

- A. A Closed Session conference was held with legal counsel for significant exposure to litigation pursuant to paragraph two of subdivision (d) of Government Code Section § 54957(a) – 1 potential case.
- B. A Closed Session conference was held with legal counsel for Cyber Security/Security of Essential Public Services pursuant to Government Code Section § 54957 (a).

Counsel stated that there were no reportable actions.

11. OTHER MATTERS

None.

ADJOURNMENT

There being no further business, Director Collings adjourned the meeting at 10:32 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 August 4, 2022 and approved by the Board of Directors of the South Orange County Wastewater Authority.

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

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

**Joint Project Committee No. 2/
Engineering Committee Meeting**

August 4, 2022

DRAFT

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Joint Project Committee 2 / Engineering Committee was held on August 4, 2022, at 10:30 a.m. (or immediately following the SOCWA Regular Board Meeting) at Santa Margarita Water District, 26111 Antonio Parkway, Rancho Santa Margarita, California and via teleconference from the same location. The following members of the Project Committee No. 2 and Project Committee No. 2 Engineering Committee were present:

MATT COLLINGS	Moulton Niguel Water District	Director
SCOTT GOLDMAN	South Coast Water District	Director
DAN FERONS	Santa Margarita Water District	Director
MARC SERNA	South Coast Water District	Engineering Committee
DON BUNTS	Santa Margarita Water District	Engineering Committee
ROD WOODS	Moulton Niguel Water District	Engineering Committee

Staff Participation:

BETTY BURNETT	General Manager
JIM BURROR	Director of Operations
DAVID BARANOWSKI	Director of Engineering
AMBER BAYLOR	Director of Environmental Compliance
RONI YOUNG	Associate Engineer
JEANETTE COTINOLA	Procurement/Contracts Administrator
ERNIE LEAL	Chief Operator
DINA ASH	HR Administrator
MATT CLARKE	IT Administrator
MARY CAREY	Controller
KONSTANTIN SHILKOV	Senior Accountant
NAYDN KIM	Accountant
ANNA SUTHERLAND	Account Payables
DANITA HIRSH	Executive Assistant

Also Participating:

RICK SHINTAKU	South Coast Water District
TARYN KJOLSING	South Coast Water District
MARK BUTIER	Butier Engineering
SHERRY WANNINGER	Moulton Niguel Water District
DON FROELICH	Moulton Niguel Water District
BILL MOORHEAD	Moulton Niguel Water District
SAUNDRA JACOBS	Moulton Niguel Water District
CHARLES GIBSON	Santa Margarita Water District

///

1. Call Meeting to Order

Chairman Collings called the meeting to order at 10:36 a.m.

2. Public Comments

None.

3. AB361 – ALLOWING FOR VIRTUAL MEETINGS – Findings and Approval to continue Virtual Meetings.

This agenda item was approved by the full Board at the SOCWA Board Regular Meeting on August 4, 2022, prior to this meeting. Therefore, it was not necessary for Project Committee 2 members to address this agenda item.

4. J.B. Latham Treatment Plant Package B Deductive Change Order Update [Project Committee 2]

A. Deductive Change Orders

ACTION TAKEN

Motion was made by Director Ferons and seconded by Director Goldman to approve changes to Olsson Construction contract for a total deductive change order of \$911,573.67 and a revised contract amount of \$18,048,068.47.

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

B. Capital Improvement Construction Projects Report

ACTION TAKEN

Motion was made by Director Goldman and seconded by Director Collings to approve Olsson Construction Change Orders No. 50 thru 57 for a total of \$119,889.13 and a revised contract amount of \$18,167,957.60.

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

5. J.B. Latham Package B Project Status Update [Project Committee 2]

There were no additional updates to the J.B. Latham Package B Project from the change orders that were addressed in agenda items 4.A, and 4.B.

This was an information item; no action was taken.

///

6. SMWD – J.B. Latham Treatment Plant Future Operation Plan

An open discussion ensued regarding Santa Margarita Water District's (SMWD) proposal to acquire the JB Latham Plant and its related assets including assignment of all current contracts for services and supplies including professional and construction from SOCWA under a new operating agreement. SMWD proposed a new operating agreement with South Coast Water District (SCWD), and Moulton Niguel Water District (MNWD) with SMWD owning and operating the plant giving SCWD and MNWD capacity rights within the plant. SMWD requested initiating a series of PC 2 meeting to address future options.

This was an information item; no action was taken.

7. One (1) Year Contract Extension Award to Miles Chemical for Ferric Chloride
[Project Committee 2]

ACTION TAKEN

Motion was made by Director Goldman and seconded by Director Collings to authorize the General Manager to provide a 1-year contract extension to Miles Chemical, Inc. for Ferric Chloride at a rate of \$975.00 per dry ton for full loads (40,000+ dry tons), \$1,095.00 per dry ton for loads of 20,000 to <40,000 dry tons and \$1,216.00 per dry ton for loads of 10,000 to <20,000 dry ton.

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

Adjournment

There being no further business, Chairman Collings adjourned the meeting at 12:04 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Joint Meeting of the South Orange County Wastewater Authority Project Committee 2 and Project Committee 2 Engineering Committee on August 4, 2022, and approved by the Project Committee No. 2, and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

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

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

April 14, 2022

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee Meeting was held on April 14, 2022, at 8:30 a.m. via teleconferencing from the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Engineering Committee were present via Zoom Meeting:

DAVID SHISSLER	City of Laguna Beach [arrived @ 8:41 a.m.]
STEVE MAY	City of San Juan Capistrano
HANNAH FORD	El Toro Water District
ROD WOODS	Moulton Niguel Water District
DON BUNTS	Santa Margarita Water District
MARC SERNA	South Coast Water District

Absent:

DAVE REBENS DORF	City of San Clemente
MIKE DUNBAR	Emerald Bay Service District
KEVIN BURTON	Irvine Ranch Water District
LORRIE LAUSTEN	Trabuco Canyon Water District

Staff Present:

BETTY BURNETT	General Manager
JIM BURROR	Director of Operations
AMBER BAYLOR	Director of Environmental Compliance
DAVID BARANOWSKI	Senior Engineer
RONI YOUNG	Associate Engineer
JEANETTE COTINOLA	Procurement & Contracts Manager
MATT CLARKE	IT Administrator
MARY CAREY	Finance Controller
KONSTANTIN SHILKOV	Senior Accountant
DANITA HIRSH	Executive Assistant

Also Present:

TRACIE STENDER	Procopio Law
TARYN KJOLSING	South Coast Water District
DENNIS CAFFERTY	El Toro Water District
SHERRY WANNINGER	Moulton Niguel Water District
MARK BUTIER	Butier Engineering
MATT COLLINGS	Moulton Niguel Water District

1. Call Meeting to Order

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

2. Public Comments

None.

3. Approval of Minutes

a. Engineering Committee Meeting of February 10, 2022

ACTION TAKEN

Motion was made by Mr. Bunts and seconded by Mr. Serna to approve subject Minutes as submitted.

Motion carried:	Aye 4, Nay 0, Abstained 1, Absent 5
	Director Shissler Absent
	Director Rebensdorf Absent
	Director May Abstain
	Director Dunbar Absent
	Director Ford Aye
	Director Burton Absent
	Director Woods Aye
	Director Kjolsing Aye
	Director Bunts Aye
	Director Lausten Absent

b. Engineering Committee Meeting of March 10, 2022

ACTION TAKEN

Motion was made by Mr. Woods and seconded by Mr. Bunts to approve subject Minutes as submitted.

Motion carried:	Aye 4, Nay 0, Abstained 1, Absent 5
	Director Shissler Absent
	Director Rebensdorf Absent
	Director May Abstain
	Director Dunbar Absent
	Director Ford Aye
	Director Burton Absent
	Director Woods Aye
	Director Kjolsing Aye
	Director Bunts Aye
	Director Lausten Absent

4. Operations Report

Mr. Burror, Director of Operations, reported that the DAFT No. 2 at the J.B. Latham Plant is starting up. He stated there had been a couple of challenges but DAFT No. 2 should be fully online within the next week.

Ms. Amber Baylor, Director of Environmental Compliance, updated the committee on the virtual inspections that occurred at several of the facilities related to obtaining the NPDES Permits.

Ms. Katie Greenwood, Source Control Manager, gave a PowerPoint presentation on SOCWA's Pretreatment Program and Rules for Clean Water Discharges to Sewerage Facilities.

This was an information item; no action was taken.

5. Capital Improvement Construction Projects Report [Project Committee 2 and 15]

ACTION TAKEN by PC 2

Motion was made by Mr. Bunts and seconded by Mr. Woods to recommend that the PC 2 Board of Directors approve Olsson Construction Change Order No. 42 for \$12,885.18, No. 43 for \$2,774.58, and No. 44 for \$1,009.86, for a total of \$16,669.62, and a revised contract value of \$18,714.842.00 for the J.B. Latham Package B project.

Motion carried: Aye 4, Nay 0, Abstained 0, Absent
Director Woods Aye
Director Serna Aye
Director Bunts Aye
Director May Aye

ACTION TAKEN by PC 15

Motion was made by Mr. Shissler and seconded by Mr. Serna to ratify JR Filanc Change Order No. 24 for a time extension of 51 days for the Coastal Treatment Plant Export Sludge Force Main Replacement project (at no additional cost).

Motion carried: Aye 2, Nay 0, Abstained 1, Absent 1
Director Shissler Aye
Director Dunbar Absent
Director Woods Abstain
Director Serna Aye

6. Revise Contract to Hazen & Sawyer for the Design Services for the J.B. Latham Electrical System Study and Design Project [Project Committee 2]

ACTION TAKEN by PC 2

Motion was made by Mr. Bunts and seconded by Mr. Woods to recommend that the PC 2 Board of Directors approve Amendment No. 2 to Hazen and Sawyer in the amount of \$19,980 for a total revised contract amount of \$243,916 for the design services for the J.B. Latham electrical System Study and Design Project.

Motion carried: Aye 4, Nay 0, Abstained 0, Absent
Director Woods Aye
Director Serna Aye
Director Bunts Aye
Director May Aye

7. J.B. Latham Package B Update [Project Committee 2]

Mr. Mark Butier of Butier Engineering updated the committee on the ongoing construction management, inspection, and other services he will be providing on behalf of the J.B. Latham Package B Project. An open discussion ensued.

This was an information item; no action was taken.

8. An Amendment to the Butier Engineering Contract for Construction Management, Inspection Services and Other Related Services for the JBL Package B Project [Project Committee 2]

ACTION TAKEN by PC 2

Motion was made by Mr. Bunts and seconded by Mr. Woods to recommend that the PC 2 Board of Directors approve Amendment No. 2 to Butier Engineering contract in the amount of \$392,535 for construction management and inspection services for the J.B. Latham Package B Project.

Motion carried:	Aye 4, Nay 0, Abstained 0, Absent
	Director Woods Aye
	Director Serna Aye
	Director Bunts Aye
	Director May Aye

9. CIP Budget Update for FY 2022-23

Mr. Burror gave an updated presentation on the proposed SOCWA CIP Budget for Fiscal Year 2022-2023. An open discussion ensued.

This was an information item; no action was taken.

Adjournment

There being no further business, Mr. Burror adjourned the meeting at 10:14 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Regular Meeting of the South Orange County Wastewater Authority Engineering Committee of April 14, 2022, and approved by the Engineering Committee and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

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

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

May 11, 2022

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee Meeting was held on May 11, 2022, at 8:30 a.m. via teleconferencing from the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Engineering Committee were present via Zoom Meeting:

HANNAH JOHNSON (BROIDA)	City of Laguna Beach
STEVE MAY	City of San Juan Capistrano
HANNAH FORD	El Toro Water District
KEVIN BURTON	Irvine Ranch Water District
ROD WOODS	Moulton Niguel Water District
DON BUNTS	Santa Margarita Water District
MARC SERNA	South Coast Water District

Absent:

DAVE REBENS DORF	City of San Clemente
MIKE DUNBAR	Emerald Bay Service District
LORRIE LAUSTEN	Trabuco Canyon Water District

Staff Present:

BETTY BURNETT	General Manager
JIM BURROR	Director of Operations
AMBER BAYLOR	Director of Environmental Compliance
DAVID BARANOWSKI	Senior Engineer
RONI YOUNG	Associate Engineer
MATT CLARKE	IT Administrator
MARY CAREY	Finance Controller
KONSTANTIN SHILKOV	Senior Accountant
NADYN KIM	Accountant
DANITA HIRSH	Executive Assistant

Also Present:

TRACIE STENDER	Procopio Law
TARYN KJOLSING	South Coast Water District
DENNIS CAFFERTY	El Toro Water District
SHERRY WANNINGER	Moulton Niguel Water District
MARK BUTIER	Butier Engineering
JESUS GARIBAY	Moulton Niguel Water District
DAVE LARSEN	Moulton Niguel Water District

1. Call Meeting to Order

Mr. Burror, Director of Operations, called the meeting to order at 8:34 a.m.

2. Public Comments

None.

3. Operations Report

Mr. Burror, Director of Operations, reported that staff is working through warranty items and asked David Baranowski, Senior Engineer, to give an update on the RTP Aeration Diffuser Replacement startup.

Mr. Baranowski reported that the first tank of six went online two weeks ago with the new EDI diffusers and have had a great impact on water quality and plant efficiencies. An open discussion ensued.

Mr. Burror also informed the committee that he circulated the Capital Spending Plan via email to the member agency Finance Officers and the Board Members noting comments and questions are welcomed.

Ms. Baylor, Director of Environmental Compliance, stated she wanted to follow up with the committee due to some additional information requested regarding the Asset Management Plan. She noted that she had been working with the Regional Board in getting answers to the questions that she received. An open discussion ensued.

This was an information item; no action was taken.

4. Capital improvement Construction Projects Report [Project Committee 2, 15, and 17]

Mr. Baranowski reported that there were no Change Orders to discuss for PC 15 and 17. He noted a few changes that were made to the Change Order report to make it easier to read and follow.

Ms. Roni Young, Associate Engineer, gave an update on the Package B Project. She stated the project was in the last phase of bypass, and that the Plant One Effluent Channel bypass is anticipated to take two weeks until completion. She also noted Olsson Construction is working in the Primary Tanks Five and Six and is at demobilization for DAFT Number One and will later perform electrical work to Digester One. Ms. Young stated there are two change orders: 45 in the amount of \$10,762.85, and 46 in the amount of \$5,389.66 to present to the committee for consideration. An open discussion ensued.

ACTION TAKEN by PC 2

Motion was made by Mr. Woods and seconded by Mr. Serna to approve Olsson Construction Change Orders for a total of \$16,152.51 and a revised contract value of \$18,730,994.51. Staff will report approved changes to the Board of Directors at the next Regular meeting.

Motion carried: Aye 4, Nay 0, Abstained 0, Absent 0
Director Woods Aye
Director Serna Aye
Director Bunts Aye
Director May Aye

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5. Regional Treatment Plant Consequence of Failure Analysis, Dudek Engineering in the amount not to exceed \$58,970.00 [Project Committee 17]

ACTION TAKEN

Motion was made by Mr. Woods and seconded by Mr. Serna to recommend that the PC 17 Board of Directors authorize the General Manager to execute a contract with Dudek Engineering for the Regional Treatment Plant Consequence of Failure Analysis (47224C-000) for a fee not to exceed \$58,970.00.

Motion carried:	Aye 4, Nay 0, Abstained 0, Absent 1
	Director Dunbar Absent
	Director Woods Aye
	Director Serna Aye
	Director Bunts Aye
	Director May Aye

6. BioRad QX200 Instrument Purchase for \$159,214 (plus tax and shipping) [Project Committees 5 and 24]

ACTION TAKEN

Motion was made by Mr. Bunts and seconded by Mr. Woods to recommend to the PC 5 and PC 24 Board of Directors to authorize a small capital budget in the amount of \$80,500 (PC 5), and \$80,500 (PC 24), and staff is authorized to adjust the budget as needed to cover tax and shipping, and authorize the purchase of the BioRad ddPCR QX200 in the amount of \$159,214 (plus tax and shipping to be determined at the time of shipping).

Motion carried:	Aye 7, Nay 0, Abstained 0, Absent 2
PC 24	Director Johnson Aye
PC 5	Director May Aye
PC 24	Director Ford Aye
PC 24	Director Burton Aye
PC 5 & 24	Director Woods Aye
PC 5	Director Bunts Aye
PC 5 & 24	Director Serna Aye
PC 5	Director Rebensdorf Absent
PC 24	Director Dunbar Absent

7. Director of Engineering Recruitment Question Solicitation

Ms. Burnett provided a status update on SOCWA'S recruitment for the position of the Director of Engineering. She asked the Committee to notify her of anyone who might be interested in applying for the position. An open discussion ensued.

This was an information item; no action was taken.

Adjournment

There being no further business, Mr. Burror adjourned the meeting at 9:18 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 Engineering Committee of May 11, 2022 and approved by the Engineering Committee and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

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

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

June 9, 2022

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Engineering Committee Meeting was held on June 9, 2022, at 8:30 a.m. via teleconferencing from the Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Engineering Committee were present via Zoom Meeting:

MIKE DUNBAR	Emerald Bay Service District
HANNAH FORD	El Toro Water District
ROD WOODS	Moulton Niguel Water District
DON BUNTS	Santa Margarita Water District
MARC SERNA	South Coast Water District
LORRIE LAUSTEN	Trabuco Canyon Water District [arrived @ 8:45 a.m.]

Absent:

DAVID SHISSLER	City of Laguna Beach
DAVE REBENS DORF	City of San Clemente
STEVE MAY	City of San Juan Capistrano
KEVIN BURTON	Irvine Ranch Water District

Staff Present:

BETTY BURNETT	General Manager
JIM BURROR	Director of Operations
AMBER BAYLOR	Director of Environmental Compliance
DAVID BARANOWSKI	Senior Engineer
RONI YOUNG	Associate Engineer
MATT CLARKE	IT Administrator
MARY CAREY	Finance Controller
KONSTANTIN SHILKOV	Senior Accountant
NADYN KIM	Accountant
DANITA HIRSH	Executive Assistant

Also Present:

TRACIE STENDER	Procopio Law
TARYN KJOLSING	South Coast Water District
DENNIS CAFFERTY	El Toro Water District
SHERRY WANNINGER	Moulton Niguel Water District
MATT COLLINGS	Moulton Niguel Water District
DAVE LARSEN	Moulton Niguel Water District

1. Call Meeting to Order

Mr. David Baranowski, Senior Engineer, called the meeting to order at 8:32 a.m.

2. Public Comments

None.

3. Salt and Nutrient Management Plan Update

Ms. Baylor, Director of Environmental Compliance gave an update on the status of the Salt and Nutrient Management Plan. An open discussion ensued.

This was an information item; no action was taken.

4. Operations Report

Mr. Burror, Director of Operations, reported that Southern CA Edison backup generators are still in use at the Coastal Treatment Plant, and an updated report will be provided to PC 15 in Closed Session following today's meeting. He also noted staff continues to support the construction at the three Treatment Plants. An open discussion ensued.

This was an information item; no action was taken.

5. Capital improvement Construction Projects Progress and Change Order Report (June) [Project Committee 2, 15, and 17]

Mr. Baranowski introduced changes to the progress report layout. An open discussion ensued.

ACTION TAKEN by PC 2

Motion was made by Mr. Bunts and seconded by Mr. Woods to recommend to the PC 2 Board of Directors to approve Olsson Construction Change Orders for a total of \$228,647.63 with no additional days, and a revised contract value of 18,959,642.14 for the J.B. Latham Package B Project; and approve Change Order 1 to Hallsten Corporation for \$16,715.25 with no additional days, for a revised contract value of \$268,137.25 for the J.B. Latham Package B. Project.

Motion carried:	Aye 3, Nay 0, Abstained 0, Absent 1
	Director Woods Aye
	Director Serna Aye
	Director Bunts Aye
	Director May Absent

6. Continuation of Meetings as Authorized Under AB 261

Mr. Baranowski gave an overall update of the purpose of the agenda item. He stated the Board of Directors referred the item to be discussed with each Committee to gather feedback on their preference for conducting future meetings in person, virtually or hybrid being a combination of both in person and virtually when permitted.

Ms. Tracie Stender, legal counsel for Procopio stated to the Committee specific clarifications in determining the findings to allow for continuation to meet virtually under AB361. Such as meeting in a room that will allow for social distancing when there is a fewer number of people in attendance. An open discussion ensued.

There was concurrence of the Engineering Committee to continue holding hybrid meetings being both in person and virtually when permitted as determined under AB361.

Adjournment

There being no further business, Mr. Baranowski adjourned the meeting at 9:18 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 Engineering Committee of June 9, 2022 and approved by the Engineering Committee and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

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

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

April 19, 2022

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee Meeting was held on April 19, 2022 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:

DAN FERONS	Santa Margarita Water District	Director
DENNIS CAFFERTY	El Toro Water District	Alternate Director
PAMELA ARENDS-KING	South Coast Water District	Alternate Director
MATT COLLINGS	Moulton Niguel Water District	Director [exited @ 11:50 a.m.]
STEVE MAY	City of San Juan Capistrano	Alternate Director

Absent:

TONI ISEMAN	City of Laguna Beach	Director
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Staff Participation:

BETTY BURNETT	General Manager
AMBER BAYLOR	Director of Environmental Compliance
JIM BURROR	Director of Operations
MARY CAREY	Finance Controller
KONSTANTIN SHILKOV	Senior Accountant
NADYN KIM	Accountant
ANNA SUTHERLAND	Accounts Payable
DAVID BARANOWSKI	Senior Engineer
RONI YOUNG	Associate Engineer
JEANETTE COTINOLA	Procurement/ Contracts Manager
DINA ASH	HR Administrator
MATT CLARKE	IT Administrator
DANITA HIRSH	Executive Assistant

Also Participating:

TRACIE STENDER	Procopio Law
KATHRYN FRESHLEY	El Toro Water District
SHERRY WANNINGER	Moulton Niguel Water District
TREVOR AGRELIUS	Moulton Niguel Water District
MIKE GASKINS	El Toro Water District
ERICA CASTILLO	Santa Margarita Water District
GAVIN CURRAN	City of Laguna Beach
FERNANDO PALUDI	Trabuco Canyon Water District
JASON HAYDEN	El Toro Water District

1. Call Meeting to Order

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

2. Public Comments

None.

3. Approval of Minutes

- a. Finance Committee Meeting of March 15, 2022
- b. Finance Committee Meeting of March 29, 2022

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Cafferty to recommend to the Board of Directors to approve subject Minutes as submitted.

Motion carried: Aye 5, Nay 0, Abstained 0, Absent 1
Director Ferons Aye
Director Iseman Absent
Director May Aye
Director Cafferty Aye
Director Collings Aye
Director Arends-King Aye

4. Financial Reports for the Month of March 2022

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Ferons to recommend to the Board of Directors to ratify the March 2022 disbursements for the period from March 1, 2022, through March 31, 2022, totaling \$3,237,151, and to receive and file the March 2022 Financial Reports as submitted.

Motion carried: Aye 5, Nay 0, Abstained 0, Absent 1
Director Ferons Aye
Director Iseman Absent
Director May Aye
Director Cafferty Aye
Director Collings Aye
Director Arends-King Aye

5. Q3 FY 2021-22 Cash Roll Forward as of March 31, 2022

ACTION TAKEN

Motion was made by Director Arends-King and seconded by Director Collings to recommend to the Board of Directors to receive and file the Q3 Fiscal Year 2021-22 Cash Roll Forward as submitted.

Motion carried: Aye 5, Nay 0, Abstained 0, Absent 1
Director Ferons Aye
Director Iseman Absent
Director May Aye
Director Cafferty Aye
Director Collings Aye
Director Arends-King Aye

6. 457b Plan Loan Program Update

Ms. Betty Burnett, General Manager updated the Finance Committee stating at the direction of the Committee staff agreed to look at the paperwork that would be prepared to accomplish the ability for SOCWA to process loan payments from the money that would otherwise be paid directly to the retirees having to do with funding that is due them for medical expenses payable for their medical plan. Additionally, as requested by Director Arends-King staff was asked to check into the 457b plan to determine how many loans are participants allowed to have. Ms. Burnett commented that staff is only allowed one loan at a time and that there was not a significant amount of loans out currently. She continued by stating the documentation is very clear that if for any reason the payments coming from PERS were not available to cover the loan payment for the retiree, then that money from the loan would become a distribution and the retiree would be responsible for paying the taxes on just like any other distribution. An open discussion ensued.

ACTION TAKEN

Motion was made by Director Arends-King and seconded by Director Collings to recommend that the Board of Directors to approve the SOCWA 457b Plan Loan Program to allow for an offset of payments otherwise due to retirees to be allocated to retiree loan repayments following separation from employment with the caveat that should the repayment source become unavailable the loan balance would then become a taxable distribution event, and to approve the revision to the Nationwide 457b Plan Administration Agreement to allow for SOCWA to submit the offset monies for the repayment of loan amounts via Nationwide's Fast Pay system.

Motion carried: Aye 3, Nay 2, Abstained 0, Absent 1
Director Ferons Nay
Director Iseman Absent
Director May Nay
Director Cafferty Aye
Director Collings Aye
Director Arends-King Aye

7. SOCWA 457b Plan Investment Policy Update

ACTION TAKEN

Motion was made by Director Arends-King and seconded by Director Collings to recommend to the Board of Directors to approve the SOCWA Employee Committee moving ahead to sign a revised Investment Policy Statement and also to bring back to the Finance Committee the discussion on the services that are being provided.

Motion carried: Aye 5, Nay 0, Abstained 0, Absent 1
Director Ferons Aye
Director Iseman Absent
Director May Aye
Director Cafferty Aye
Director Collings Aye
Director Arends-King Aye

8. FY2021/22 O&M Budget Update and Proposed Budget Amendments

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Cafferty to recommend to the PC 2 Board to approve JBL budget line items to be amended by \$430,000 and allocated as reported and recommend to the PC 17 Board to approve RTP budget line items to be amended by \$100,000 and allocated as reported.

Motion carried:	Aye 5, Nay 0, Abstained 0, Absent 1
	Director Ferons Aye
	Director Iseman Absent
	Director May Aye
	Director Cafferty Aye
	Director Collings Aye
	Director Arends-King Aye

9. FY 2022-23 O&M Environmental Safety, General Fund, Administration, Residual Engineering, IT, and Capital Budget Workshop

Ms. Carey presented the proposed FY 2022-23 budget as follows:

- O&M, Environmental, and Safety proposed budget was presented for Fiscal Year 2022-23 in the amount of \$19.3 million; a year-over-year increase of 4.4%.
- Admin budget was presented including the General Fund in the amount of \$2.2 million a year-over-year decrease of -3.8%. Also, the Residual Engineering proposed budget was presented in the amount of \$326,000, a year-over-year decrease of -6.9%.
- IT budget was presented in the amount of \$780,000; a year-over-year decrease of -1.4%.
- FY 2022-23 Fringe Pool and Rate was presented at \$3.4 million a year-over-year increase of 3.3%. The Fringe Rate is 52.2%; a year-over-year increase of .4%.
- Unfunded Liability & OPEB was presented in the amount of \$1.8 million; a year-over-year increase of 11.53%.
- SOCWA Total Budget was presented in the amount of \$21.8 million or 3.4% increase year-over-year before UAL and OPEB. Total Budget after UAL and OPEB is \$23.7 million and a year-over-year increase of 4.0%.

An open discussion ensued.

Recommended Action: This was an information item; no action was taken.

Adjournment

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

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Finance Committee of April 19, 2022 and approved by the Finance Committee and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

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

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

May 10, 2022

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Finance Committee Meeting was held on May 10, 2022 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:

DAN FERONS	Santa Margarita Water District	Director
TONI ISEMAN	City of Laguna Beach	Director
DENNIS CAFFERTY	El Toro Water District	Alternate Director
PAMELA ARENDS-KING	South Coast Water District	Alternate Director
MATT COLLINGS	Moulton Niguel Water District	Director [arrived @ 10:32 a.m.]

Absent:

STEVE MAY	City of San Juan Capistrano	Alternate Director
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Staff Participation:

BETTY BURNETT	General Manager
AMBER BAYLOR	Director of Environmental Compliance
JIM BURROR	Director of Operations
MARY CAREY	Finance Controller
KONSTANTIN SHILKOV	Senior Accountant
NADYN KIM	Accountant
ANNA SUTHERLAND	Accounts Payable
DAVID BARANOWSKI	Senior Engineer
RONI YOUNG	Associate Engineer
JEANETTE COTINOLA	Procurement/ Contracts Manager
DINA ASH	HR Administrator
MATT CLARKE	IT Administrator
DANITA HIRSH	Executive Assistant

Also Participating:

TRACIE STENDER	Procopio Law
ADRIANA OCHOA	Procopio Law
KATHRYN FRESHLEY	El Toro Water District
SHERRY WANNINGER	Moulton Niguel Water District
TREVOR AGRELIUS	Moulton Niguel Water District
MIKE GASKINS	El Toro Water District
ERICA CASTILLO	Santa Margarita Water District

1. Call Meeting to Order

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

2. Public Comments

None.

3. Financial Reports for the Month of April 2022

ACTION TAKEN

Motion was made by Director Iseman and seconded by Director Arends-King to recommend to the Board of Directors to ratify the April 2022 disbursements for the period from April 1, 2022, through April 30, 2022, totaling \$2,687,927, and to receive and file the April 2022 Financial Reports as submitted.

Motion carried:	Aye 5, Nay 0, Abstained 0, Absent 1
	Director Ferons Aye
	Director Iseman Aye
	Director May Absent
	Director Cafferty Aye
	Director Collings Aye
	Director Arends-King Aye

4. FY 2022-23 Workshop Total Budget and Response to Questions and Comments

Ms. Burnett and Ms. Carey presented the new Budget Assumptions for the General Fund and various scenarios.

ACTION TAKEN

Motion was made by Director Collings and seconded by Director Ferons to recommend to the Board of Directors to approve Fiscal Year 2022-23 Budget at the May 19, 2022 Board Budget Workshop.

Motion carried:	Aye 5, Nay 0, Abstained 0, Absent 1
	Director Ferons Aye
	Director Iseman Aye
	Director May Absent
	Director Cafferty Aye
	Director Collings Aye
	Director Arends-King Aye

Adjournment

There being no further business, Chairman Ferons adjourned the meeting at 11:41 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 Finance Committee of May 10, 2022 and approved by the Finance Committee and received and filed by the Board of Directors of the South Orange County Wastewater Authority.

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

Agenda Item

5.E.

Board of Directors Meeting

Meeting Date: September 1, 2022

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Mary Carey, Finance Controller
SUBJECT: Financial Reports for the Month of May 2022, and June 2022 Disbursements

Summary/Discussion

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

The reports included are as follows:

1. Summary of Disbursements for May 2022 (Exhibit A-1); Summary of Disbursements for June 2022 (Exhibit A-2)
2. Schedule of Funds Available for Reinvestment (Exhibit B)
 - Local Agency Investment Fund (LAIF)
3. Schedule of Cash and Investments (Exhibit C)
4. Capital Schedule (Exhibit D)
 - Capital Projects – Graph (Exhibit D-1)
5. Budget vs. Actual Expenses:
 - Operations and Environmental Summary (Exhibit E-1)
 - Operations and Environmental by PC (E-1.2)
 - Residual Engineering, after transfer to Capital (Exhibit E-2)
 - Administration (Exhibit E-3)
 - Information Technology (IT) (Exhibit E-4)
6. Q3 Fringe Pool and Fringe Rate Forecast (Exhibit E-5) (Updated Fringe Rate)

Fiscal impact

May 2022 cash disbursements were: \$ 3,370,435.

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

Recommended Action: The Finance Committee recommends that the Board of Directors (i) ratify the May 2022 disbursements for the period from May 1, 2022, through May 31, 2022, totaling \$3,370,435, and to receive and file the May 2022 Financial Reports as submitted; and (ii) ratify the June 2022 disbursements for the period from June 1, through June 30, 2022, totaling \$3,206,691.

Exhibit A-1

**South Orange County Wastewater Authority
Summary of Disbursements for May 2022
Staff Recommendation of Fiscal Matters**

	<u>Actual</u>
General Fund	\$ (142,324)
PC 2 - Jay B. Latham Plant	(875,994)
PC 5 - San Juan Creek Ocean Outfall	(29,295)
PC 8 - Pretreatment Program	(17,038)
PC 12 SO - Water Reclamation Permits	(802)
PC 15 - Coastal Treatment Plant/AWT	(818,021)
PC 17 - Joint Regional Wastewater Reclamation	(1,455,609)
PC 21 - Effluent Transmission Main	(5,057)
PC 23 - North Coast Interceptor	-
PC 24 - Aliso Creek Ocean Outfall	(26,295)
Total	<u>\$ (3,370,435)</u>

**South Orange County Wastewater Authority
Summary of Disbursements for June 2022
Staff Recommendation of Fiscal Matters**

	<u>Actual</u>
General Fund	\$ (388,322)
PC 2 - Jay B. Latham Plant	(1,277,940)
PC 5 - San Juan Creek Ocean Outfall	(15,079)
PC 8 - Pretreatment Program	(15,302)
PC 12 SO - Water Reclamation Permits	(17,268)
PC 15 - Coastal Treatment Plant/AWT	(656,693)
PC 17 - Joint Regional Wastewater Reclamation	(797,504)
PC 21 - Effluent Transmission Main	(24,980)
PC 23 - North Coast Interceptor	-
PC 24 - Aliso Creek Ocean Outfall	(13,603)
Total	<u><u>\$ (3,206,691)</u></u>

**SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
SCHEDULE OF FUNDS AVAILABLE FOR REINVESTMENT
as of May 31, 2022**

CASH IN BANK: (BEGINNING BAL.)	\$	1,455,709
L.A.I.F. FUNDS: (BEGINNING BAL.)		9,013,334
DEPOSITS, TRANSFERS & ADJUSTMENTS:		6,747,285
FUND REQUIREMENTS:		
BILLS FOR CONSIDERATION ¹		(3,370,435)
TOTAL CASH IN BANK	\$	13,845,892

¹ GL postings.

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

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

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

Betty Burnett
General Manager

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



PMIA/LAIF Performance Report as of 07/18/22



PMIA Average Monthly Effective Yields⁽¹⁾

June	0.861
May	0.684
Apr	0.523

Quarterly Performance Quarter Ended 06/30/22

LAIF Apportionment Rate ⁽²⁾ :	0.75
LAIF Earnings Ratio ⁽²⁾ :	0.00002057622201151
LAIF Fair Value Factor ⁽¹⁾ :	0.987125414
PMIA Daily ⁽¹⁾ :	0.99%
PMIA Quarter to Date ⁽¹⁾ :	0.69%
PMIA Average Life ⁽¹⁾ :	311

Pooled Money Investment Account Monthly Portfolio Composition ⁽¹⁾ 06/30/22 \$234.5 billion

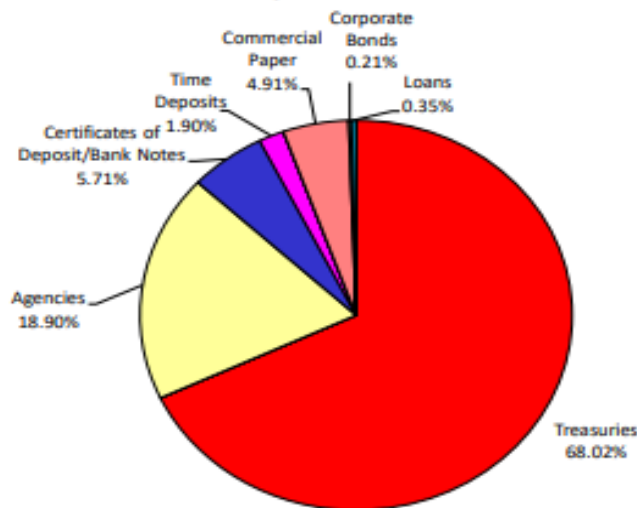


Chart does not include \$4,693,000.00 in mortgages, which equates to 0.002%. Percentages may not total 100% due to rounding.

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

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

Source:

⁽¹⁾ State of California, Office of the Treasurer

⁽²⁾ State of California, Office of the Controller

Exhibit C

**South Orange County Wastewater Authority
Schedule of Cash and Investments
as of May 31, 2022**

MVA	\$ 3,162	(A)
A/P Checking	1,146,570	(B)
Payroll Checking	41,826	(C)
State LAIF	12,654,334	(D)
Total Cash in Bank¹	\$ 13,845,892	
Petty Cash	1,600	(E)
Total Operating Cash	\$ 13,847,492	
OPEB Trust	6,079,019	(F)
Total Cash and Investments	\$ 19,926,511	

¹Bank balance at the end of a month may differ from an accounting closing balance as there may be in-transit items that haven't cleared the bank.

Notes:

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

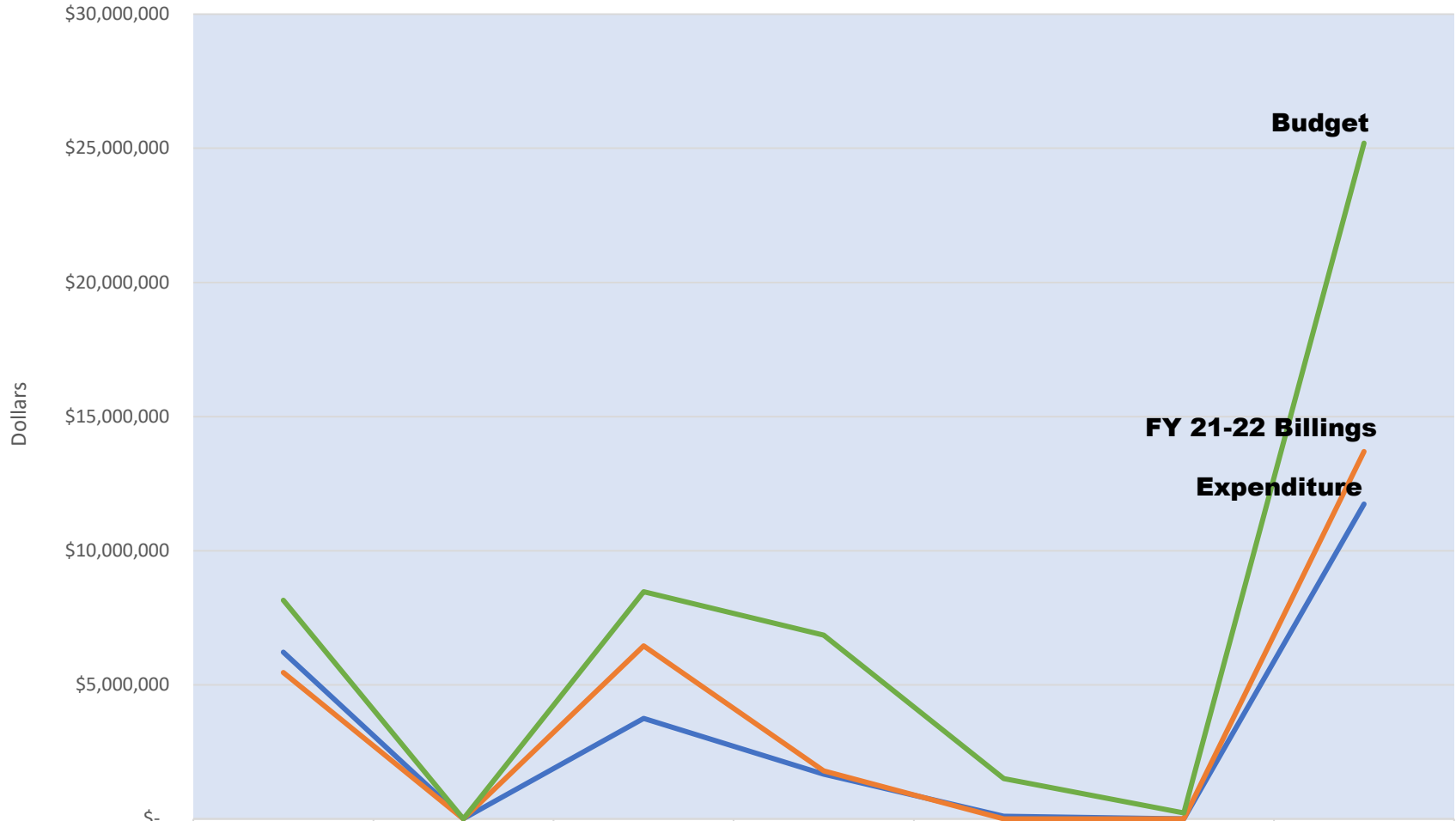
**South Orange County Wastewater Authority
Capital Projects Summaries
For the Period Ended May 31, 2022
(in dollars)**

FY 2021-22 Budget vs. Actual Spending								
<u>Description</u>	Capital Budget	Fiscal Year Spending	(Over)/ Under Budget	% Expended	Member Agency Billed	Member Agency Collections	Open Receivables	% Expended vs. Billed
PC 2-JB Latham	\$ 8,153,937	\$ 6,214,930	\$ 1,939,007	76.2%	\$ 5,452,000	\$ 5,452,000	\$ -	114.0%
PC 5-San Juan Creek Outfall ¹	-	7,904	(7,904)	-	-	-	-	-
PC 15-Coastal	8,464,653	3,750,447	4,714,206	44.3%	6,454,999	6,454,999	-	58.1%
PC 17-Regional	6,851,959	1,668,726	5,183,233	24.4%	1,788,249	1,788,249	-	93.3%
PC 21 Effluent Transmission	1,502,000	95,103	1,406,897	6.3%	-	-	-	-
PC 24 Aliso Creek Outfall	220,000	-	220,000	0.0%	-	-	-	-
Total Large Capital	\$ 25,192,549	\$ 11,737,110	\$ 13,455,439	46.6%	\$ 13,695,248	\$ 13,695,248	\$ -	85.7%
Non-Capital Engineering	405,871	60,625	345,246	14.9%	100,000	100,000	-	60.6%
Non-Capital Misc Engineering	254,500	4,778	249,723	1.9%	104,000	104,000	-	4.6%
Small Internal Capital	2,061,000	1,493,534	567,466	72.5%	2,061,000	2,061,000	-	72.5%
Total Capital	\$ 27,913,920	\$ 13,296,046	\$ 14,617,874	47.6%	\$ 15,960,248	\$ 15,960,248	\$ -	83.3%

¹ PC 5 is paid out of Cash on Hand collected in an earlier year

Large Capital Projects Fiscal Year '21-22 Budget vs. Year-to-Date Expenditures & Billings as of 5/31/2022

Exhibit D-1



	PC 2-JB Latham	PC 5-San Juan Creek Outfall	PC 15-Coastal	PC 17-Regional	PC 21 Effluent Transmission	PC 24 Aliso Creek Outfall	Total Large Capital
Spent - YTD 5/31/22	\$6,214,930	7,904.31	\$3,750,447	\$1,668,726	\$95,102.92	-	\$11,737,110
FY 21-22 Billings	\$5,452,000	-	\$6,454,999	\$1,788,249	-	-	\$13,695,248
Capital Budget 21-22	\$8,153,937	-	\$8,464,653	\$6,851,959	\$1,502,000	\$220,000	\$25,192,549

**South Orange County Wastewater Authority
O & M & Environmental Safety Costs Summary**
For the Period Ended May 31, 2022
(in dollars)

	FY 2021-22 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended	
Salary and Fringe							
-5000-*.**	Regular Salaries-O&M		4,847,168	3,963,360	883,808	81.8%	
-5001-*.**	Overtime Salaries-O&M		107,256	124,091	(16,835)	115.7%	
-5306-*.**	Scheduled Holiday Work		91,000	77,593	13,407	85.3%	
-5315-*.**	Comp Time - O&M		15,980	26,645	(10,665)	166.7%	
-5401-*.**	Fringe Benefits IN to PC's & Depts.		2,511,460	2,250,400	261,060	89.6%	
-5700-*.**	Standby Pay		67,600	62,141	5,459	91.9%	
	Total Payroll Costs		7,640,464	6,504,229	1,136,235	85.1%	
Other Expenses							
-5002-*.**	Electricity	30,000	1,170,780	1,079,874	120,906	89.9%	
-5003-*.**	Natural Gas	100,000	226,008	340,011	(14,003)	104.3% (1)	
-5004-*.**	Potable & Reclaimed Water		85,000	60,941	24,059	71.7%	
-5005-*.**	Co-generation Power Credit		(686,000)	(920,985)	234,985	134.3%	
-5006-*.**	Chlorine/Sodium Hypochlorite	15,000	502,008	539,918	(22,910)	104.4% (2)	
-5007-*.**	Polymer Products		747,004	693,066	53,938	92.8% (2)	
-5008-*.**	Ferric Chloride	90,000	588,004	678,004	623,011	54,993	91.9% (2)
-5009-*.**	Odor Control Chemicals	15,000	107,016	105,747	16,269	86.7% (2)	
-5010-*.**	Other Chemicals - Misc.		2,004	-	2,004	-	
-5011-*.**	Laboratory Services		65,196	24,953	40,243	38.3%	
-5012-*.**	Grit Hauling	18,000	120,000	153,565	(15,565)	111.3% (3)	
-5013-*.**	Landscaping		219,008	209,013	9,995	95.4%	
-5015-*.**	Management Support Services	60,000	475,000	535,000	105,566	429,434	19.7%
-5016-*.**	Audit - Environmental		1,304	-	1,304	-	
-5017-*.**	Legal Fees	37,070	48,612	60,244	25,438	70.3%	
-5018-*.**	Public Notices/ Public Relations		6,000	-	6,000	-	
-5019-*.**	Contract Services Misc.		277,016	317,676	(40,660)	114.7% (2)	
-5021-*.**	Small Vehicle Expense		23,080	30,233	(7,153)	131.0%	
-5022-*.**	Miscellaneous Expense		16,012	4,063	11,949	25.4%	
-5023-*.**	Office Supplies - All		46,008	26,035	19,973	56.6%	
-5024-*.**	Petroleum Products		34,008	15,508	18,500	45.6%	
-5025-*.**	Uniforms		70,996	68,106	2,890	95.9%	
-5026-*.**	Small Vehicle Fuel		22,656	15,295	7,361	67.5%	
-5027-*.**	Insurance - Property/Liability	75,000	317,684	410,049	(17,365)	104.4% (4)	
-5028-*.**	Small Tools & Supplies		80,000	62,597	17,403	78.2%	
-5030-*.**	Trash Disposal		8,500	7,121	1,379	83.8%	
-5031-*.**	Safety Program & Supplies		119,344	83,880	35,464	70.3%	
-5032-*.**	Equipment Rental		7,004	25,069	(18,065)	357.9% (5)	
-5033-*.**	Recruitment		2,500	3,070	(570)	122.8%	
-5034-*.**	Travel Expense/Tech. Conferences		29,928	7,396	22,532	24.7%	
-5035-*.**	Training Expense		47,996	26,718	21,278	55.7%	
-5036-*.**	Laboratory Supplies		124,400	120,963	3,437	97.2%	
-5037-*.**	Office Equipment		25,992	18,502	7,490	71.2%	
-5038-*.**	Permits	12,000	489,996	545,780	(43,784)	108.7% (6)	
-5039-*.**	Membership Dues/Fees		17,872	19,249	(1,377)	107.7%	
-5044-*.**	Offshore Monitoring		151,000	79,867	71,133	52.9%	
-5045-*.**	Offshore Biochemistry - 20B		23,024	-	23,024	-	
-5046-*.**	Effluent Chemistry		70,000	19,471	50,530	27.8%	
-5047-*.**	Access Road Expenses		45,000	1,861	43,139	4.1%	
-5048-*.**	Storm Damage		21,000	-	21,000	-	
-5049-*.**	Biosolids Disposal	20,000	1,470,000	1,418,154	71,846	95.2% (2)	
-5050-*.**	Contract Services Generators - 29A		28,008	16,884	11,124	60.3%	
-5052-*.**	Janitorial Services		101,004	72,446	28,558	71.7%	
-5053-*.**	Contract Serv - Digester Cleaning - 29E	30,000	60,000	39,938	50,062	44.4%	
-5054-*.**	Diesel Truck Maint		42,000	25,490	16,510	60.7%	
-5055-*.**	Diesel Truck Fuel		11,500	9,688	1,812	84.2%	
-5056-*.**	Maintenance Equip. & Facilities (Solids)	50,000	366,000	304,252	111,748	73.1%	
-5057-*.**	Maintenance Equip. & Facilities (Liquids)		651,996	547,336	104,660	83.9%	
-5058-*.**	Maintenance Equip. & Facilities (Common)	45,000	90,008	90,023	44,985	66.7%	
-5059-*.**	Maintenance Equip. & Facilities (Co-Gen)		738,996	750,590	(11,594)	101.6%	
-5060-*.**	Maintenance Equip. & Facilities (AWT)		88,000	57,732	30,268	65.6%	
-5061-*.**	Mileage		3,608	1,853	1,755	51.4%	
-5068-*.**	MNWD Potable Water Supplies & Svcs.		28,000	37,445	(9,445)	133.7% (7)	
-5074-*.**	Education Reimbursement		1,996	551	1,445	27.6%	

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

For the Period Ended May 31, 2022
(in dollars)

	FY 2021-22 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended	
-5076--**	SCADA Infrastructure	86,596	86,596	81,411	5,185	94.0%	
-5077--**	IT Direct	5,508	5,508	1,996	3,512	36.2%	
-5105--**	Co-Generation Power Credit - Offset	685,992	685,992	920,985	(234,993)	134.3%	
-5303--**	Group Insurance Waiver	14,392	14,392	15,134	(742)	105.2%	
-5305--**	Medicare Tax Payments for Employees	2,160	2,160	1,906	254	88.3%	
-5309--**	Operating Leases	26,000	26,000	-	26,000	-	
-5705--**	Monthly Car Allowance	35,396	35,396	33,349	2,047	94.2%	
-5799--**	Zephyr Wall Costs Share-O&M	(14,000)	(14,000)	6,853	(20,853)	-49.0%	
-6500--**	IT Allocations in to PC's & Depts.	610,540	610,540	502,865	107,675	82.4%	
	Total Other Expenses	10,881,660	597,070	11,478,730	9,920,313	1,558,417	86.4%
	Total O&M Expenses	18,522,124	597,070	19,119,194	16,424,543	2,694,651	85.9%

- * 02/03/2022 Board approved budget amendment for PC 12-Water Reclamation Management Support Services, \$45,000, for Support Services Salt & Nutrient Management Plan.
- * 02/03/2022 Board approved budget amendment for PC 2- \$5,000, PC 15- \$5,000, PC 17- \$5,000 Management Support Services, total \$15,000 for CASA Climate Change Program.
- * 02/14/2022 PC 23 Committee approved budget amendment for PC 23 - \$7,070, for work performed on the Intertie Project.
- * 05/19/2022 Board approved budget amendment for PC 2 - \$430,000 and PC 17 - \$100,000, due to expense inflationary increase.

- (1) Additional natural gas was used to run the cogeneration system at RTP during warranty repairs on the digester gas cleaning system.
- (2) Costs elevated due to contract increases.
- (3) Increased grit from digester cleaning process and upstream treatment plant to JBL.
- (4) Property Liability insurance rate increased due to insurers' increases in California.
- (5) Rental usage increased due to supply chain interruptions delaying SOCWA's equipment repairs.
- (6) Increased permit fees reported to the Board November 2021.
- (7) Annual laboratory proficiency testing costs for potable water certification and increased costs of consumables.

**South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC**
For the Period Ended May 31, 2022
(in dollars)

		FY 2021-22 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended
02 - Jay B. Latham Plant							
Salary and Fringe							
02-5000.**.**	Regular Salaries-O&M	1,585,228		1,585,228	1,380,575	204,653	87.1%
02-5001.**.**	Overtime Salaries-O&M	37,904		37,904	63,631	(25,727)	167.9%
02-5306.**.**	Scheduled Holiday Work	36,600		36,600	29,916	6,684	81.7%
02-5315.**.**	Comp Time - O&M	8,264		8,264	14,766	(6,502)	178.7%
02-5401.**.**	Fringe Benefits IN to PC's & Depts.	821,352		821,352	783,892	37,460	95.4%
02-5700.**.**	Standby Pay	25,096		25,096	24,928	168	99.3%
	Total Payroll Costs	2,514,444	-	2,514,444	2,297,708	216,736	91.4%
Other Expenses							
02-5002.**.**	Electricity	506,564	30,000	536,564	494,171	42,393	92.1%
02-5003.**.**	Natural Gas	132,160	70,000	202,160	173,386	28,774	85.8%
02-5004.**.**	Potable & Reclaimed Water	25,000		25,000	21,167	3,833	84.7%
02-5006.**.**	Chlorine/Sodium Hypochlorite	8,000	15,000	23,000	17,079	5,921	74.3%
02-5007.**.**	Polymer Products	305,000		305,000	275,223	29,777	90.2%
02-5008.**.**	Ferric Chloride	200,000	90,000	290,000	222,009	67,991	76.6%
02-5009.**.**	Odor Control Chemicals	21,004	15,000	36,004	24,780	11,224	68.8%
02-5010.**.**	Other Chemicals - Misc.	1,000		1,000	-	1,000	-
02-5011.**.**	Laboratory Services	19,000		19,000	6,823	12,177	35.9%
02-5012.**.**	Grit Hauling	55,000	18,000	73,000	92,328	(19,328)	126.5%
02-5013.**.**	Landscaping	77,004		77,004	64,559	12,445	83.8%
02-5015.**.**	Management Support Services	30,008	5,000	35,008	35,503	(495)	101.4%
02-5017.**.**	Legal Fees	4,996		4,996	4,283	713	85.7%
02-5019.**.**	Contract Services Misc.	70,636		70,636	105,245	(34,609)	149.0%
02-5021.**.**	Small Vehicle Expense	11,000		11,000	10,643	357	96.8%
02-5022.**.**	Miscellaneous Expense	8,000		8,000	2,231	5,769	27.9%
02-5023.**.**	Office Supplies - All	29,000		29,000	14,603	14,397	50.4%
02-5024.**.**	Petroleum Products	11,004		11,004	717	10,287	6.5%
02-5025.**.**	Uniforms	33,996		33,996	30,895	3,101	90.9%
02-5026.**.**	Small Vehicle Fuel	10,004		10,004	6,269	3,735	62.7%
02-5027.**.**	Insurance - Property/Liability	108,384	35,000	143,384	146,075	(2,691)	101.9%
02-5028.**.**	Small Tools & Supplies	38,000		38,000	27,066	10,934	71.2%
02-5030.**.**	Trash Disposal	3,000		3,000	3,141	(141)	104.7%
02-5031.**.**	Safety Program & Supplies	41,000		41,000	38,937	2,063	95.0%
02-5032.**.**	Equipment Rental	3,000		3,000	6,324	(3,324)	210.8%
02-5033.**.**	Recruitment	348		348	970	(622)	278.7%
02-5034.**.**	Travel Expense/Tech. Conferences	9,012		9,012	845	8,167	9.4%
02-5035.**.**	Training Expense	16,976		16,976	9,363	7,613	55.2%
02-5036.**.**	Laboratory Supplies	21,004		21,004	15,344	5,660	73.1%
02-5037.**.**	Office Equipment	13,000		13,000	5,812	7,188	44.7%
02-5038.**.**	Permits	13,496	12,000	25,496	26,401	(905)	103.6%
02-5039.**.**	Membership Dues/Fees	4,516		4,516	2,906	1,610	64.3%
02-5049.**.**	Biosolids Disposal	620,000	20,000	640,000	648,110	(8,110)	101.3%
02-5050.**.**	Contract Services Generators - 29A	10,004		10,004	12,739	(2,735)	127.3%
02-5052.**.**	Janitorial Services	47,000		47,000	36,639	10,361	78.0%
02-5053.**.**	Contract Serv - Digester Cleaning - 29E	60,000	30,000	90,000	39,938	50,062	44.4%
02-5054.**.**	Diesel Truck Maint	22,000		22,000	8,631	13,369	39.2%
02-5055.**.**	Diesel Truck Fuel - 37B	2,996		2,996	2,948	48	98.4%
02-5056.**.**	Maintenance Equip. & Facilities (Solids)	155,000	50,000	205,000	131,662	73,338	64.2%
02-5057.**.**	Maintenance Equip. & Facilities (Liquids)	260,000		260,000	160,907	99,093	61.9%
02-5058.**.**	Maintenance Equip. & Facilities (Common)	29,000	45,000	74,000	53,759	20,241	72.6%
02-5059.**.**	Maintenance Equip. & Facilities (Co-Gen)	277,120		277,120	267,682	9,438	96.6%
02-5061.**.**	Mileage	2,104		2,104	763	1,341	36.2%
02-5076.**.**	SCADA Infrastructure	28,960		28,960	27,137	1,823	93.7%
02-5077.**.**	IT Direct	2,620		2,620	1,996	624	76.2%
02-5303.**.**	Group Insurance Waiver	3,596		3,596	5,206	(1,610)	144.8%
02-5309.**.**	Operating Leases	26,000		26,000	-	26,000	-
02-5705.**.**	Monthly Car Allowance	22,804		22,804	20,959	1,845	91.9%
02-5799.**.**	Zephyr Wall Costs Share-O&M	(14,000)		(14,000)	6,853	(20,853)	-49.0%
02-6500.**.**	IT Allocations in to PC's & Depts.	199,812		199,812	164,570	35,242	82.4%
	Total Other Expenses	3,585,128	435,000	4,020,128	3,475,597	544,531	86.5%
	Total Expenses	6,099,572	435,000	6,534,572	5,773,305	761,267	88.4%

**South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC**
For the Period Ended May 31, 2022
(in dollars)

		FY 2021-22 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended	
05 - San Juan Creek Ocean Outfall								
Salary and Fringe								
05-5000-**-**	Regular Salaries-O&M	146,556		146,556	117,729	28,827	80.3%	
05-5001-**-**	Overtime Salaries-O&M	72		72	297	(225)	412.9%	
05-5306-**-**	Scheduled Holiday Work	416		416	350	66	84.0%	
05-5401-**-**	Fringe Benefits IN to PC's & Depts.	75,928		75,928	66,847	9,081	88.0%	
	Total Payroll Costs	222,972	-	222,972	185,223	37,749	83.1%	
Other Expenses								
05-5015-**-**	Management Support Services	212,500		212,500	37,373	175,127	17.6%	
05-5017-**-**	Legal Fees	2,008		2,008	-	2,008	-	
05-5026-**-**	Small Vehicle Fuel	500		500	-	500	-	
05-5027-**-**	Insurance - Property/Liability	9,668		9,668	13,478	(3,810)	139.4%	(4)
05-5031-**-**	Safety Supplies	1,052		1,052	-	1,052	-	
05-5033-**-**	Recruitment	556		556	-	556	-	
05-5034-**-**	Travel Expense/Tech. Conferences	1,512		1,512	457	1,055	30.2%	
05-5035-**-**	Training Expense	1,952		1,952	187	1,765	9.6%	
05-5036-**-**	Laboratory Supplies	35,000		35,000	35,400	(400)	101.1%	
05-5038-**-**	Permits	228,968		228,968	237,612	(8,644)	103.8%	(6)
05-5039-**-**	Membership Dues/Fees	216		216	225	(9)	104.2%	
05-5044-**-**	Offshore Monitoring	75,496		75,496	39,779	35,717	52.7%	
05-5045-**-**	Offshore Biochemistry - 20B	11,512		11,512	-	11,512	-	
05-5046-**-**	Effluent Chemistry	35,000		35,000	8,227	26,774	23.5%	
05-5056-**-**	Maintenance Equip. & Facilities (Solids) 41-A	-		-	572	(572)	-	
05-5058-**-**	Maintenance Equip. & Facilities (Common)	1,004		1,004	375	629	37.4%	
05-6500-**-**	IT Allocations in to PC's & Depts.	18,464		18,464	15,203	3,261	82.3%	
	Total Other Expenses	635,408	-	635,408	388,888	246,520	61.2%	
	Total Expenses	858,380	-	858,380	574,111	284,269	66.9%	
08 - Pre Treatment								
Salary and Fringe								
08-5000-**-**	Regular Salaries-O&M	117,772		117,772	96,273	21,499	81.7%	
08-5401-**-**	Fringe Benefits IN to PC's & Depts.	61,016		61,016	54,664	6,352	89.6%	
	Total Payroll Costs	178,788	-	178,788	150,938	27,850	84.4%	
Other Expenses								
08-5011-**-**	Laboratory Services	3,200		3,200	-	3,200	-	
08-5016-**-**	Audit - Environmental	1,304		1,304	-	1,304	-	
08-5017-**-**	Legal Fees	2,596		2,596	4,695	(2,099)	180.9%	
08-5018-**-**	Public Notices/ Public Relations	6,000		6,000	-	6,000	-	
08-5021-**-**	Small Vehicle Expense - 31A	1,076		1,076	-	1,076	-	
08-5022-**-**	Miscellaneous Expense	2,008		2,008	41	1,967	2.0%	
08-5026-**-**	Small Vehicle Fuel - 37A	1,148		1,148	303	845	26.4%	
08-5027-**-**	Insurance - Property/Liability	3,024		3,024	4,384	(1,360)	145.0%	(4)
08-5028-**-**	Small Tools & Supplies	3,000		3,000	2,033	967	67.8%	
08-5034-**-**	Travel Expense/Tech. Conferences	2,732		2,732	2,473	259	90.5%	
08-5035-**-**	Training Expense	-		-	450	(450)	-	
08-5038-**-**	Permits and Fines	3,132		3,132	-	3,132	-	
08-5039-**-**	Membership Dues/Fees	-		-	438	(438)	-	
08-6500-**-**	IT Allocations in to PC's & Depts.	14,832		14,832	12,218	2,614	82.4%	
	Total Other Expenses	44,052	-	44,052	27,036	17,016	61.4%	
	Total Expenses	222,840	-	222,840	177,974	44,866	79.9%	
12 - Water Reclamation Permits								
Salary and Fringe								
12-5000-**-**	Regular Salaries-O&M	44,808		44,808	15,791	29,017	35.2%	
12-5401-**-**	Fringe Benefits IN to PC's & Depts.	23,208		23,208	8,966	14,242	38.6%	
	Total Payroll Costs	68,016	-	68,016	24,758	43,258	36.4%	
Other Expenses								
12-5015-**-**	Management Support Services	-	45,000	45,000	-	45,000	-	
12-5017-**-**	Legal Fees	2,000		2,000	4,036	(2,036)	201.8%	
12-5027-**-**	Insurance - Property/Liability	5,164		5,164	1,623	3,541	31.4%	(4)
12-5034-**-**	Travel Expense/Tech. Conferences	920		920	99	821	10.7%	
12-5038-**-**	Permits	12,044		12,044	24,491	(12,447)	203.3%	(6)
12-5039-**-**	Membership Dues/Fees	68		68	122	(54)	179.6%	
12-6500-**-**	IT Allocations in to PC's & Depts.	5,640		5,640	4,648	992	82.4%	
	Total Other Expenses	25,836	45,000	70,836	35,019	35,817	49.4%	
	Total Expenses	93,852	45,000	138,852	59,777	79,075	43.1%	

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
 For the Period Ended May 31, 2022
 (in dollars)

		FY 2021-22 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended
15 - Coastal Treatment Plant							
Salary and Fringe							
15-5000-**-**	Regular Salaries-O&M	1,083,504		1,083,504	808,516	274,988	74.6%
15-5001-**-**	Overtime Salaries-O&M	19,208		19,208	27,734	(8,526)	144.4% (7)
15-5306-**-**	Scheduled Holiday Work	15,584		15,584	15,575	9	99.9%
15-5315-**-**	Comp Time - O&M	2,000		2,000	4,627	(2,627)	231.4% (7)
15-5401-**-**	Fringe Benefits IN to PC's & Depts.	561,396		561,396	459,076	102,320	81.8%
15-5700-**-**	Standby Pay	16,504		16,504	8,418	8,086	51.0%
	Total Payroll Costs	1,698,196	-	1,698,196	1,323,945	374,251	78.0%
Other Expenses							
15-5002-**-**	Electricity	202,348		202,348	263,453	(61,105)	130.2%
15-5003-**-**	Natural Gas	2,872		2,872	4,106	(1,234)	143.0%
15-5004-**-**	Potable & Reclaimed Water	25,000		25,000	21,539	3,461	86.2%
15-5006-**-**	Chlorine/Sodium Hypochlorite	94,004		94,004	88,037	5,967	93.7%
15-5007-**-**	Polymer Products	1,004		1,004	-	1,004	-
15-5008-**-**	Ferric Chloride	58,000		58,000	66,342	(8,342)	114.4% (2)
15-5009-**-**	Odor Control Chemicals	51,004		51,004	42,124	8,880	82.6%
15-5011-**-**	Laboratory Services	20,000		20,000	7,772	12,228	38.9%
15-5012-**-**	Grit Hauling	23,000		23,000	19,115	3,885	83.1%
15-5013-**-**	Landscaping	57,000		57,000	62,871	(5,871)	110.3% (7)
15-5015-**-**	Management Support Services	10,000	5,000	15,000	1,125	13,875	7.5%
15-5017-**-**	Legal Fees	30,000		30,000	8,014	21,986	26.7%
15-5019-**-**	Contract Services Misc.	91,732		91,732	95,559	(3,827)	104.2%
15-5021-**-**	Small Vehicle Expense	4,004		4,004	5,831	(1,827)	145.6%
15-5022-**-**	Miscellaneous Expense	1,000		1,000	557	443	55.7%
15-5023-**-**	Office Supplies - All	4,004		4,004	3,909	95	97.6%
15-5024-**-**	Petroleum Products	3,000		3,000	4,717	(1,717)	157.2% (7)
15-5025-**-**	Uniforms	9,000		9,000	7,783	1,217	86.5%
15-5026-**-**	Small Vehicle Fuel	2,000		2,000	2,453	(453)	122.6%
15-5027-**-**	Insurance - Property/Liability	47,112		47,112	63,865	(16,753)	135.6% (4)
15-5028-**-**	Small Tools & Supplies	9,000		9,000	4,223	4,777	46.9%
15-5030-**-**	Trash Disposal	2,996		2,996	2,166	830	72.3%
15-5031-**-**	Safety Supplies	35,000		35,000	13,926	21,074	39.8%
15-5032-**-**	Equipment Rental	1,000		1,000	-	1,000	-
15-5033-**-**	Recruitment	312		312	100	212	32.1%
15-5034-**-**	Travel Expense/Tech. Conferences	5,244		5,244	180	5,064	3.4%
15-5035-**-**	Training Expense	11,632		11,632	6,376	5,256	54.8%
15-5036-**-**	Laboratory Supplies	14,000		14,000	21,585	(7,585)	154.2%
15-5037-**-**	Office Equipment	2,996		2,996	4,953	(1,957)	165.3%
15-5038-**-**	Permits	4,820		4,820	6,451	(1,631)	133.8% (6)
15-5039-**-**	Membership Dues/Fees	4,960		4,960	5,282	(322)	106.5%
15-5047-**-**	Access Road Expenses	45,000		45,000	1,861	43,139	4.1%
15-5048-**-**	Storm Damage	21,000		21,000	-	21,000	-
15-5049-**-**	Biosolids Disposal	-		-	10,308	(10,308)	- (8)
15-5050-**-**	Contract Services Generators - 29A	5,000		5,000	-	5,000	-
15-5052-**-**	Janitorial Services	12,004		12,004	11,382	622	94.8%
15-5054-**-**	Diesel Truck Maint - 31B	1,000		1,000	-	1,000	-
15-5055-**-**	Diesel Truck Fuel - 37B	504		504	-	504	-
15-5057-**-**	Maintenance Equip. & Facilities (Liquids)	149,996		149,996	183,942	(33,946)	122.6% (7)
15-5058-**-**	Maintenance Equip. & Facilities (Common)	23,000		23,000	7,812	15,188	34.0%
15-5060-**-**	Maintenance Equip. & Facilities (AWT)	38,000		38,000	33,451	4,549	88.0%
15-5061-**-**	Mileage	500		500	353	147	70.7%
15-5076-**-**	SCADA Infrastructure	28,952		28,952	27,137	1,815	93.7%
15-5077-**-**	IT Direct	264		264	-	264	-
15-5303-**-**	Group Insurance Waiver	3,600		3,600	3,448	152	95.8%
15-5305-**-**	Medicare Tax Payments for Employees	2,160		2,160	1,906	254	88.3%
15-5705-**-**	Monthly Car Allowance	4,196		4,196	3,861	335	92.0%
15-6500-**-**	IT Allocations in to PC's & Depts.	136,476		136,476	112,408	24,068	82.4%
	Total Other Expenses	1,299,696	5,000	1,304,696	1,232,279	72,417	94.4%
	Total Expenses	2,997,892	5,000	3,002,892	2,556,223	446,669	85.1%

**South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC**
For the Period Ended May 31, 2022
(in dollars)

	FY 2021-22 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended
17 - Joint Regional Wastewater Reclamation and Sludge Handling						
Salary and Fringe						
17-5000-**-**	Regular Salaries-O&M		1,718,916	1,437,561	281,355	83.6%
17-5001-**-**	Overtime Salaries-O&M		49,452	31,467	17,985	63.6%
17-5306-**-**	Scheduled Holiday Work		38,136	31,403	6,733	82.3%
17-5315-**-**	Comp Time - O&M		5,716	7,251	(1,535)	126.9%
17-5401-**-**	Fringe Benefits IN to PC's & Depts.		890,632	816,249	74,383	91.6%
17-5700-**-**	Standby Pay		26,000	28,795	(2,795)	110.8%
	Total Payroll Costs		2,728,852	2,352,726	376,126	86.2%
Other Expenses						
17-5002-**-**	Electricity		461,868	322,250	139,618	69.8%
17-5003-**-**	Natural Gas	30,000	120,976	162,519	(41,543)	134.3% (9)
17-5004-**-**	Potable & Reclaimed Water		35,000	18,234	16,766	52.1%
17-5005-**-**	Co-generation Power Credit		(686,000)	(920,985)	234,985	134.3%
17-5006-**-**	Chlorine/Sodium Hypochlorite		400,004	434,803	(34,799)	108.7% (2)
17-5007-**-**	Polymer Products		441,000	417,843	23,157	94.7%
17-5008-**-**	Ferric Chloride		330,004	334,660	(4,656)	101.4% (2)
17-5009-**-**	Odor Control Chemicals		35,008	38,843	(3,835)	111.0% (2)
17-5010-**-**	Other Chemicals - Misc.		1,004	-	1,004	-
17-5011-**-**	Laboratory Services		22,996	10,358	12,638	45.0%
17-5012-**-**	Grit Hauling - 21A		42,000	42,123	(123)	100.3%
17-5013-**-**	Landscaping		85,004	81,583	3,421	96.0%
17-5015-**-**	Management Support Services	5,000	14,996	10,625	4,371	70.9%
17-5017-**-**	Legal Fees	30,000	35,004	32,154	2,850	91.9% (10)
17-5019-**-**	Contract Services Misc.		96,312	116,873	(20,561)	121.3% (2)
17-5021-**-**	Small Vehicle Expense		7,000	13,760	(6,760)	196.6%
17-5022-**-**	Miscellaneous Expense		5,004	1,235	3,769	24.7%
17-5023-**-**	Office Supplies - All		13,004	7,523	5,481	57.9%
17-5024-**-**	Petroleum Products		20,004	10,073	9,931	50.4%
17-5025-**-**	Uniforms		28,000	29,428	(1,428)	105.1%
17-5026-**-**	Small Vehicle Fuel		9,004	6,271	2,733	69.6%
17-5027-**-**	Insurance - Property/Liability	40,000	175,628	168,400	7,228	95.9% (4)
17-5028-**-**	Small Tools & Supplies		30,000	29,274	726	97.6%
17-5030-**-**	Trash Disposal		2,504	1,814	690	72.5%
17-5031-**-**	Safety Supplies		41,248	31,017	10,231	75.2%
17-5032-**-**	Equipment Rental		3,004	18,745	(15,741)	624.0% (5)
17-5033-**-**	Recruitment		728	2,000	(1,272)	274.7%
17-5034-**-**	Travel Expense/Tech. Conferences		8,996	1,834	7,162	20.4%
17-5035-**-**	Training Expense		15,480	10,155	5,325	65.6%
17-5036-**-**	Laboratory Supplies		24,392	20,532	3,860	84.2%
17-5037-**-**	Office Equipment		9,996	7,737	2,259	77.4%
17-5038-**-**	Permits		10,612	27,744	(17,132)	261.4% (6)
17-5039-**-**	Membership Dues/Fees		7,892	10,051	(2,159)	127.4%
17-5049-**-**	Biosolids Disposal		850,000	759,737	90,263	89.4%
17-5050-**-**	Contract Services Generators - 29A		13,004	4,145	8,859	31.9%
17-5052-**-**	Janitorial Services		42,000	24,424	17,576	58.2%
17-5054-**-**	Diesel Truck Maint		19,000	16,859	2,141	88.7%
17-5055-**-**	Diesel Truck Fuel		8,000	6,740	1,260	84.3%
17-5056-**-**	Maintenance Equip. & Facilities (Solids)		211,000	172,018	38,982	81.5%
17-5057-**-**	Maintenance Equip. & Facilities (Liquids)		242,000	202,488	39,512	83.7%
17-5058-**-**	Maintenance Equip. & Facilities (Common)		36,000	28,076	7,924	78.0%
17-5059-**-**	Maintenance Equip. & Facilities (Co-Gen)		461,876	482,907	(21,031)	104.6%
17-5060-**-**	Maintenance Equip. & Facilities (AWT) 41-E		50,000	24,281	25,719	48.6%
17-5061-**-**	Mileage		1,004	737	267	73.4%
17-5068-**-**	MNWD Potable Water Supplies & Svcs.		28,000	37,445	(9,445)	133.7% (11)
17-5074-**-**	Education Reimbursement		1,996	551	1,445	27.6%
17-5076-**-**	SCADA Infrastructure		28,684	27,137	1,547	94.6%
17-5077-**-**	IT Direct		2,624	-	2,624	-
17-5105-**-**	Co-Generation Power Credit - Offset		685,992	920,985	(234,993)	134.3%
17-5303-**-**	Group Insurance Waiver		7,196	6,480	716	90.0%
17-5309-**-**	Operating Leases		-	-	-	-
17-5705-**-**	Monthly Car Allowance		8,396	8,529	(133)	101.6%
17-6500-**-**	IT Allocations in to PC's & Depts.		216,520	178,329	38,191	82.4%
	Total Other Expenses		4,655,964	4,401,345	359,619	92.4%
	Total Expenses	105,000	7,489,816	6,754,071	735,745	90.2%

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
 For the Period Ended May 31, 2022
 (in dollars)

		FY 2021-22 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended
21 - Effluent Transmission Main							
Salary and Fringe							
21-5000-**-**-**	Regular Salaries-O&M	1,088		1,088	191	898	17.5%
21-5001-**-**-**	Overtime Salaries-O&M	-		-	-	-	-
21-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	564		564	108	456	19.2%
	Total Payroll Costs	1,652	-	1,652	299	1,353	18.1%
Other Expenses							
21-5019-**-**-**	Contract Services Misc.	18,336		18,336	-	18,336	-
21-5027-**-**-**	Insurance - Property/Liability	-		-	10	(10)	-
	Total Other Expenses	18,336	-	18,336	10	18,326	0.1%
	Total Expenses	19,988	-	19,988	309	19,679	1.5%
23 - North Coast Interceptor							
Other Expenses							
23-5017-**-**-**	Legal Fees	-	7,070	7,070	7,063	7	99.9%
	Total Expenses	-	7,070	7,070	7,063	7	99.9%
24 - Aliso Creek Ocean Outfall							
Salary and Fringe							
24-5000-**-**-**	Regular Salaries-O&M	149,296		149,296	106,724	42,572	71.5%
24-5001-**-**-**	Overtime Salaries-O&M	620		620	962	(342)	155.1%
24-5306-**-**-**	Scheduled Holiday Work	264		264	350	(86)	132.4%
24-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	77,364		77,364	60,598	16,766	78.3%
	Total Payroll Costs	227,544	-	227,544	168,634	58,910	74.1%
Other Expenses							
24-5015-**-**-**	Management Support Services	212,496		212,496	20,939	191,557	9.9%
24-5017-**-**-**	Legal Fees	2,008		2,008	-	2,008	-
24-5027-**-**-**	Insurance - Property/Liability	8,704		8,704	12,214	(3,510)	140.3%
24-5031-**-**-**	Safety Supplies	1,044		1,044	-	1,044	-
24-5033-**-**-**	Recruitment	556		556	-	556	-
24-5034-**-**-**	Travel Expense/Tech. Conferences	1,512		1,512	1,507	5	99.7%
24-5035-**-**-**	Training Expense	1,956		1,956	187	1,769	9.6%
24-5036-**-**-**	Laboratory Supplies	30,004		30,004	28,103	1,901	93.7%
24-5038-**-**-**	Permits	216,924		216,924	223,079	(6,155)	102.8%
24-5039-**-**-**	Membership Dues/Fees	220		220	225	(5)	102.3%
24-5044-**-**-**	Offshore Monitoring	75,504		75,504	40,089	35,415	53.1%
24-5045-**-**-**	Offshore Biochemistry - 20B	11,512		11,512	-	11,512	-
24-5046-**-**-**	Effluent Chemistry	35,000		35,000	11,244	23,756	32.1%
24-5058-**-**-**	Maintenance Equip. & Facilities (Common) 41-C	1,004		1,004	-	1,004	-
24-6500-**-**-**	IT Allocations in to PC's & Depts.	18,796		18,796	15,489	3,307	82.4%
	Total Other Expenses	617,240	-	617,240	353,076	264,164	57.2%
	Total Expenses	844,784	-	844,784	521,710	323,074	61.8%
Total O&M Expenses		18,522,124	597,070	19,119,194	16,424,543	2,694,651	85.9%

* 02/03/2022 Board approved budget amendment for PC 12-Water Reclamation Management Support Services, \$45,000, for Support Services Salt & Nutrient Management Plan.
 * 02/03/2022 Board approved budget amendment for PC 2- \$5,000, PC 15- \$5,000, PC 17- \$5,000 Management Support Services, total \$15,000 for CASA Climate Change Program.
 * 02/14/2022 PC 23 Committee approved budget amendment for PC 23 - \$7,070, for work performed on the Intertie Project.
 * 05/19/2022 Board approved budget amendment for PC 2 - \$430,000 and PC 17 - \$100,000, due to expense inflationary increase.

South Orange County Wastewater Authority
O&M Budget vs. Actual Comparison by PC
For the Period Ended May 31, 2022

- (1) Increased solids from upstream treatment plants to JBL impacted operational costs.
- (2) Costs elevated due to contract increases.
- (3) Increased grit maintenance due to digester cleaning process and upstream treatment plant to JBL.
- (4) Property Liability insurance rate increased due to insurers' increases in California.
- (5) Rental usage increased due to supply chain interruptions delaying SOCWA's equipment repairs.
- (6) Increased permit fees reported to the Board November 2021.
- (7) Increased costs due to the Coastal Fire.
- (8) Soils from the May and June sludge lines leaks were dried and disposed of as Biosolids.
- (9) Additional natural gas was used to run the cogeneration system at RTP during warranty repairs on the digester gas cleaning system.
- (10) Cost associated with BKK Landfill matter
- (11) Annual laboratory proficiency testing costs for potable water certification and increased costs of consumables.

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

For the Period Ended May 31, 2022

(in dollars)

		FY 2021-22 Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
01-5000-03-00-00	Regular Salaries-O&M	175,927	158,125	17,802	89.9%
01-5401-03-00-00	Fringe Benefits IN to PC's & Depts.	91,154	89,784	1,371	98.5%
	Total Payroll Costs	267,081	247,908	19,173	92.8%
Other Expenses					
01-5022-03-00-00	Miscellaneous Expense	3,184	1,097	2,087	34.5%
01-5023-03-00-00	Office Supplies - All	208	-	208	-
01-5031-03-00-00	Safety Supplies	306	-	306	-
01-5034-03-00-00	Travel Expense/Tech. Conferences	6,439	-	6,439	-
01-5035-03-00-00	Training Expense	2,244	-	2,244	-
01-5037-03-00-00	Office Equipment	408	-	408	-
01-5039-03-00-00	Membership Dues/Fees	1,377	1,223	154	88.8%
01-5061-03-00-00	Mileage	510	102	408	20.1%
01-5309-03-00-00	Operating Leases	9,300	27,988	(18,688)	300.9% (1)
01-5705-03-00-00	Monthly Car Allowance	4,200	2,294	1,906	54.6%
01-5802-03-00-00	Shipping/Freight	312	-	312	-
01-6500-03-00-00	IT Allocations in to PC's & Depts.	54,293	45,152	9,142	83.2%
	Total Other Expenses	82,781	77,856	4,926	94.0%
	Total Engineering Expenses	349,863	325,764	24,099	93.1%

(1) Reclassification

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

For the Period Ended May 31, 2022

(in dollars)

		FY 2021-22 Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
01-6000-04-00-00	Regular Salaries-Admin or IT	998,424	851,733	146,691	85.3%
01-6001-04-00-00	Overtime Salaries-Admin or IT	10,000	28,851	(18,851)	288.5% (1)
01-6315-04-00-00	Comp Time - Admin	5,000	2,833	2,167	56.7%
01-6401-04-00-00	Fringe Benefits IN to ADMIN or IT	517,316	483,615	33,701	93.5%
	Total Payroll Costs	1,530,740	1,367,032	163,708	89.3%
Other Expenses					
01-6018-04-00-00	Public Notices/Public Relations	3,270	-	3,270	-
01-6101-04-00-00	HR Recruitment & Employee Relations	24,350	18,391	5,959	75.5%
01-6102-04-00-00	Subscriptions	2,081	2,428	(348)	116.7%
01-6103-04-00-00	Contract Labor	50,000	23,081	26,919	46.2%
01-6200-04-00-00	Management Support Services	90,000	30,132	59,868	33.5%
01-6201-04-00-00	Audit	46,000	32,500	13,500	70.7%
01-6202-04-00-00	Legal	220,000	293,813	(73,813)	133.6%
01-6204-04-00-00	Postage	1,500	1,142	358	76.2%
01-6223-04-00-00	Office Supplies - Admin	4,500	2,558	1,942	56.8%
01-6224-04-00-00	Office Equipment Admin or IT	1,200	4,775	(3,575)	397.9% (2)
01-6234-04-00-00	Memberships & Trainings	88,000	98,017	(10,017)	111.4% (3)
01-6239-04-00-00	Travel & Conference	11,000	11,422	(422)	103.8%
01-6241-04-00-00	Education Reimbursement	1,500	904	596	60.3%
01-6310-04-00-00	Miscellaneous	18,000	19,009	(1,009)	105.6%
01-6311-04-00-00	Mileage	1,236	148	1,087	12.0%
01-6317-04-00-00	Contract Services Misc	5,722	5,196	526	90.8%
01-6500-04-00-00	IT Allocations in to PC's & Depts.	125,761	103,581	22,180	82.4%
01-6601-04-00-00	Shipping/Freight	3,815	3,686	129	96.6%
01-6705-04-00-00	Monthly Car Allowance	12,000	11,031	969	91.9%
	Total Other Expenses	709,934	661,814	48,120	93.2%
Total Admin Expenses		2,240,674	2,028,846	211,828	90.5%

(1) Additional information requests and Meeting schedules impacted the need for overtime work.

(2) Planned purchase of ergonomic chairs.

(3) Increased membership fees for WEROC, NACWA, and CASA.

South Orange County Wastewater Authority
Budget vs. Actual Comparison-IT
 For the Period Ended May 31, 2022
 (in dollars)

		FY 2021-22 Budget	Actual	(Over)/Under Budget	% Expended
Salary & Fringe					
01-6000-05-00-00	Regular Salaries-Admin or IT	100,076	95,581	4,495	95.5%
01-6401-05-00-00	Fringe Benefits IN to ADMIN or IT	51,852	54,271	(2,419)	104.7%
	Total Salary & Fringe	151,928	149,853	2,075	98.6%
Other Expenses					
01-6028-05-00-00	Small Tools & Supplies	1,000	200	800	20.0%
01-6035-05-00-00	Training Expense	3,000	1,725	1,275	57.5%
01-6224-05-00-00	Office Equipment Admin or IT	600	634	(34)	105.6%
01-6234-05-00-00	Memberships & Trainings	2,750	-	2,750	-
01-6239-05-00-00	Travel & Conference	1,500	-	1,500	-
01-6300-05-00-00	Software Maintenance Agreements	41,026	26,308	14,718	64.1%
01-6301-05-00-00	Hardware Maintenance Agreements	14,726	10,036	4,690	68.2%
01-6302-05-00-00	Cloud Subscriptions (Internet)	177,328	172,744	4,584	97.4%
01-6303-05-00-00	Telecommunications	165,582	153,505	12,077	92.7%
01-6305-05-00-00	IT Professional Services	92,400	42,505	49,895	46.0%
01-6306-05-00-00	Small Hardware Purchases (< \$5k)	40,985	9,258	31,727	22.6%
01-6307-05-00-00	Small Software Purchases & Licenses (<\$5k)	28,968	23,897	5,071	82.5%
01-6308-05-00-00	IT Memberships	160	-	160	-
01-6309-05-00-00	Operating Leases	64,173	58,074	6,099	90.5%
01-6310-05-00-00	Miscellaneous	5,000	187	4,813	3.7%
01-6312-05-00-00	Computer & Photocopy Supplies	-	2,672	(2,672)	-
	Total Other Expenses	639,198	501,745	137,453	78.5%
	Total Expenses before Allocation	791,126	651,598	139,528	82.4%
IT Allocations (Out) to PC's & Depts					
01-6400-05-00-00	IT Allocations (OUT) to PC's & Depts.	(791,126)	(651,598)	(139,528)	82.4%
	Total IT Allocations (Out) to PC's & Depts	(791,126)	(651,598)	(139,528)	82.4%

Agenda Item

5.F.

Board of Directors Meeting

Meeting Date: September 1, 2022

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Mary Carey, Finance Controller

SUBJECT: Adoption of Other Post-Employment Benefits (OPEB) PARS Trust Account Investment Guidelines and the GM Signature Authority as Plan Administrator

Summary/Discussion

PARS has requested that SOCWA consider the adoption of Investment Guidelines for the Trust. A Draft Guidelines Document is attached. The document was previously presented to the Finance Committee for review and comment on August 17, 2021. The Finance Committee had no issues with the Guidelines and recommended that it moves forward to the Board of Directors for review, comment, and adoption.

Recommended Action: The Finance Committee recommends that the Board of Directors provide comments on the Draft Guidelines and adopt the Investment Guidelines including the GM Signature Authority as the Plan Administrator.



Investment Guidelines Document

South Orange County Wastewater Authority (SOCWA)

Trust for OPEB Funding

June 2022

Investment Guidelines Document

Scope and Purpose

The purpose of this Investment Guidelines Document is to:

- Facilitate the process of ongoing communication between the Plan Sponsor and its plan fiduciaries;
- Confirm the Plan's investment goals and objectives and management policies applicable to the investment portfolio identified below and obtained from the Plan Sponsor;
- Provide a framework to construct a well-diversified asset mix that can potentially be expected to meet the account's investment needs that is consistent with the account's investment objectives, liquidity considerations and risk tolerance;
- Identify any unique considerations that may restrict or limit the investment discretion of its designated investment managers;
- Help maintain a long-term perspective when market volatility is caused by short-term market movements.

Key Plan Sponsor Account Information as of October 2017

Plan Sponsor:	South Orange County Wastewater Authority. (SOCWA)
Plan Administrator:	SOCWA General Manager
Governance:	SOCWA Board of Directors
Portfolio Type:	HighMark Plus (Active strategy)
Plan Name ("Plan"):	SOCWA Trust for OPEB
Trustee:	US Bank Contact: Sue Hughes, 949-224-7209 Susan.Hughes@usbank.com
Type of Account:	<i>Trust for OPEB liability</i>
Investment Manager:	US Bank, as discretionary trustee, has delegated investment management responsibilities to HighMark Capital Management, Inc. ("Investment Manager"), an SEC-registered investment adviser Contact: Keith Stribling, CFA, 949-553-2591 keith.stribling@highmarkcapital.com

Investment Authority: Except as otherwise noted, the Trustee, US Bank, has delegated investment authority to HighMark Capital Management, an SEC-registered investment adviser. Investment Manager has full investment discretion over the managed assets in the account. Investment Manager is authorized to purchase, sell, exchange, invest, reinvest and manage the designated assets held in the account, all in accordance with account's investment objectives, without prior approval or subsequent approval of any other party(ies).

Investment Objectives and Constraints

The goal of the Plan's investment program is to provide a reasonable level of growth which, will result in sufficient assets to pay the present and future obligations of the Plan. The following objectives are intended to assist in achieving this goal:

- The Plan should seek to earn a return in excess of its policy benchmark over the life of the Plan.
- The Plan's assets will be managed on a total return basis which takes into consideration both investment income and capital appreciation. While the Plan Sponsor recognizes the importance of preservation of capital, it also adheres to the principle that varying degrees of investment risk are generally rewarded with compensating returns. To achieve these objectives, the Plan Sponsor allocates its assets (asset allocation) with a strategic perspective of the capital markets.

Investment Time Horizon: Long-term (10+ years)

Anticipated Cash Flows: Distributions are expected to be low in the early years of the Plan.

Target Rate of Return: 6.50% annual target

Investment Objective: The primary objective is to maximize total Plan return, subject to the risk and quality constraints set forth herein. The investment objective the Plan Sponsor has selected is the Balanced Objective, which has a dual goal to seek growth of income and principal.

Investment Objective: *Balanced*
The primary objective is to maximize total Plan return, subject to the risk and quality constraints set forth herein. The investment objective the Plan Sponsor has selected is the Balanced Objective, which has a dual goal to seek growth of income and principal. The assets in this Plan will eventually be used to pay agency OPEB obligations

Risk Tolerance: *Moderate*
The account's risk tolerance has been rated moderate, which demonstrates that the account can accept price fluctuations to pursue its investment objectives.

Portfolio Type: *HighMark Plus (Active strategy)*

Strategic Asset Allocation: The asset allocation ranges for this objective are listed below:

<i>Strategic Asset Allocation Ranges</i>		
Cash	Fixed Income	Equity
0-20%	30%-50%	50%-70%
Policy: 5%	Policy: 35%	Policy: 60%

Market conditions may cause the account's asset allocation to vary from the stated range from time to time. The Investment Manager will rebalance the portfolio no less than quarterly and/or when the actual weighting differs substantially from the strategic range, if appropriate and consistent with your objectives.

Security Guidelines:

Equities

With the exception of limitations and constraints described above, Investment Manager may allocate assets of the equity portion of the account among various market capitalizations (large, mid, small) and investment styles (value, growth). Further, Investment Manager may allocate assets among domestic, international developed and emerging market equity securities.

Total Equities	50%-70%
<i>Equity Style</i>	<i>Range</i>
Domestic Large Cap Equity	20%-50%
Domestic Mid Cap Equity	0%-15%
Domestic Small Cap Equity	0%-20%
International Equity (incl. Emerging Markets)	0%-20%
Real Estate Investment Trust (REIT)	0%-10%

Fixed Income

In the fixed income portion of the account, Investment Manager may allocate assets among various sectors and industries, as well as varying maturities and credit quality that are consistent with the overall goals and objectives of the portfolio.

Total Fixed Income	30%-50%
<i>Fixed Income Style</i>	<i>Range</i>
Long-term bonds (maturities >7 years)	0%-20%
Intermediate-term bonds (maturities 3-7 years)	15%-50%
Short-Term bonds (maturities <3 years)	0%-15%
High Yield bonds	0%-8%

Performance Benchmarks:

The performance of the total Plan shall be measured over three and five-year periods. These periods are considered sufficient to accommodate the market cycles experienced with investments. The performance shall be compared to the return of the total portfolio blended benchmark shown below.

Total Portfolio Blended Benchmark

32.00%	S&P 500 Index
6.00%	Russell Mid Cap
9.00%	Russell 2000
4.00%	MSCI EM FREE
7.00%	MSCI EAFE
2.00%	Wilshire REIT
27.00%	BC US Aggregate
6.75%	ML 1-3 Year US Corp/Gov't
1.25%	US High Yield Master II
5.00%	Citi 1Mth T-Bill

Asset Class/Style Benchmarks

Over a market cycle, the long-term objective for each investment strategy is to add value to a market benchmark. The following are the benchmarks used to monitor each investment strategy:

Large Cap Equity	S&P 500 Index
Growth	S&P 500 Growth Index
Value	S&P 500 Value Index
Mid Cap Equity	Russell MidCap Index
Growth	Russell MidCap Growth
Value	Russell MidCap Value
Small Cap Equity	Russell 2000 Index
Growth	Russell 2000 Growth
Value	Russell 2000 Value
REITs	Wilshire REIT
International Equity	MSCI EAFE
Investment Grade Bonds	BarCap US Aggregate Bond
High Yield	US High Yield Master II

Security Selection

Investment Manager may utilize a full range of investment vehicles when constructing the investment portfolio, including but not limited to individual securities, mutual funds, and exchange-traded funds. In addition, to the extent permissible, Investment Manager is authorized to invest in shares of mutual funds in which the Investment Manager serves as advisor or sub-adviser.

Investment Limitations:

The following investment transactions are prohibited:

- Direct investments in precious metals (precious metals mutual funds and exchange-traded funds are permissible).
- Venture Capital
- Short sales*
- Purchases of Letter Stock, Private Placements, or direct payments
- Leveraged Transactions*
- Commodities Transactions Puts, calls, straddles, or other option strategies*
- Purchases of real estate, with the exception of REITs
- Derivatives, with exception of ETFs*

**Permissible in diversified mutual funds and exchange-traded funds*

Duties and Responsibilities

Responsibilities of Plan Sponsor

The General Manager or their designee is responsible for:

- Confirming the accuracy of this Investment Guidelines Document, in writing.
- Advising Trustee and Investment Manager of any change in the plan/account's financial situation, funding status, or cash flows, which could possibly necessitate a change to the account's overall risk tolerance, time horizon or liquidity requirements; and thus would dictate a change to the overall investment objective and goals for the account.
- Monitoring and supervising all service vendors and investment options, including investment managers.
- Avoiding prohibited transactions and conflicts of interest.

Responsibilities of Trustee

The plan Trustee is responsible for:

- Valuing the holdings.
- Collecting all income and dividends owed to the Plan.
- Settling all transactions (buy-sell orders).

Responsibilities of Investment Manager

The Investment Manager is responsible for:

- Assisting the Plan Sponsor or their designee with the development and maintenance of this Investment Policy Guideline document annually.
- Meeting with the General Manager or their designee annually to review portfolio structure, holdings, and performance.
- Designing, recommending and implementing an appropriate asset allocation consistent with the investment objectives, time horizon, risk profile, guidelines and constraints outlined in this statement.
- Researching and monitoring investment advisers and investment vehicles.
- Purchasing, selling, and reinvesting in securities held in the account.
- Monitoring the performance of all selected assets.
- Voting proxies, if applicable.
- Recommending changes to any of the above.

- Periodically reviewing the suitability of the investments, being available to meet with the committee at least once each year, and being available at such other times within reason at your request.
- Preparing and presenting appropriate reports.
- Informing the committee if changes occur in personnel that are responsible for portfolio management or research.

Acknowledgement and Acceptance

I/We being the Plan Sponsor with responsibility for the account(s) held on behalf of the Plan Sponsor specified below, designate Investment Manager as having the investment discretion and management responsibility indicated in relation to all assets of the Plan or specified Account. If such designation is set forth in the Plan/trust, I/We hereby confirm such designation as Investment Manager.

I have read the Investment Guidelines Document, and confirm the accuracy of it, including the terms and conditions under which the assets in this account are to be held, managed, and disposed of by Investment Manager. This Investment Guidelines Document supersedes all previous versions of an Investment Guidelines Document or investment objective instructions that may have been executed for this account.

_____ Date: _____
 Plan Administrator, General Manager, SOCWA

 _____ Date: 6/8/2022
 Investment Manager: Keith Stribling, CFA, Senior Portfolio Manager, (949) 553-2591

Agenda Item

5.G.

Board of Directors Meeting

Meeting Date: September 1, 2022

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Mary Carey, Finance Controller
SUBJECT: Other Post-Employment Benefits (OPEB) Trust Account Annual Review

Summary/Discussion

Attached, please find the Summary of SOCWA's OPEB Plan showing performance results from inception through June 30, 2022. The Account Balance as of June 30, 2022, is \$5,727,973, down \$929,249 from the prior year balance of \$6,657,222, or -14%.

Since the plan's inception in December 2009, the Authority has contributed \$3.5 million and earned \$2.2 million, 62% of the contributions (net of expenses).

At the request of the Board, staff may present highlights of the PARS Savings Program and the complete report is attached hereto.

Recommended Action: The Finance Committee recommends that the Board of Directors receive and file the PARS report.

PUBLIC
AGENCY
RETIREMENT
SERVICES

PARS

TRUSTED SOLUTIONS. LASTING RESULTS.



SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

PARS 115 Trust – OPEB Prefunding Program Client Review
July 29, 2022

CONTACTS



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Senior Manager, Consulting
(800) 540-6369 x121
rsanders@pars.org

Will Rogers, RPA
Client Services Coordinator
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Keith Stribling, CFA
Senior Portfolio Manager
(949) 553-2591
keith.stribling@highmarkcapital.com

PARS 115 TRUST TEAM

Trust Administrator & Consultant



- Serves as record-keeper, consultant, and central point of contact
- Sub-trust accounting
- Coordinates all agency services
- Monitors plan compliance (IRS/GASB/State Government Code)
- Processes contributions/disbursements
- Hands-on, dedicated support teams

38 Years of Experience (1984-2022)	2,000+ Plans under Administration	1,000+ Public Agency Clients	490+ 115 Trust Clients	500K+ Plan Participants	\$6.1B Assets under Administration
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Trustee



- 5th largest commercial bank and one of the nation's largest trustees for Section 115 trusts
- Safeguard plan assets
- Oversight protection as plan fiduciary
- Custodian of assets

159 Years of Experience (1863-2022)	\$9.0T Assets under Trust Custody
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Investment Manager



- Investment sub-advisor to trustee U.S. Bank
- Investment policy assistance
- Uses open architecture
- Active and passive platform options
- Customized portfolios (with minimum asset level)

103 Years of Experience (1919-2022)	\$19.0B Assets under Management & Advisement
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SUMMARY OF AGENCY'S OPEB PLAN

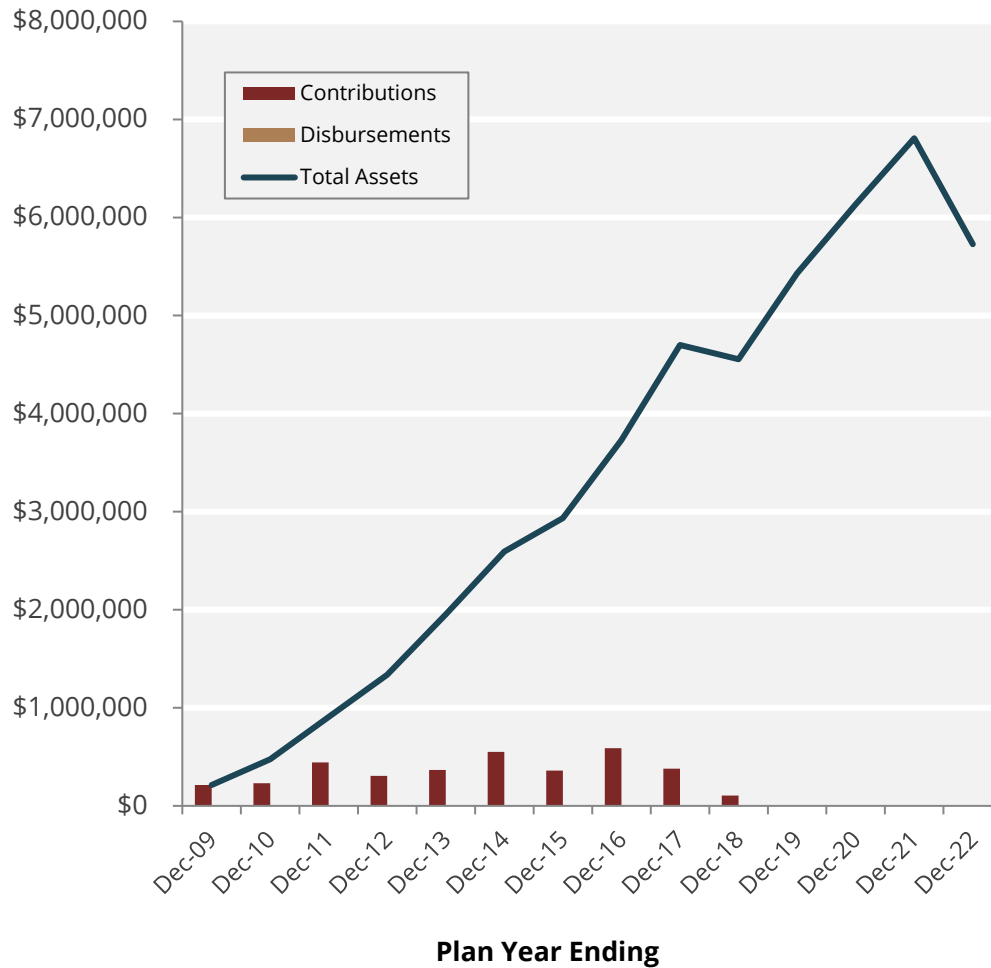
Plan Type:	IRC Section 115 Irrevocable Exclusive Benefit Trust
Trustee Approach:	Discretionary
Plan Effective Date:	August 6, 2009
Plan Administrator:	General Manager
Current Investment Strategy:	Balanced HighMark PLUS (Active) Strategy; Pooled Account

AS OF JUNE 30, 2022:

Initial Contribution:	December 2009: \$211,652
Additional Contributions:	\$3,323,137
Total Contributions:	\$3,534,789
Disbursements:	\$0
Total Investment Earnings:	\$2,429,850
Account Balance:	\$5,727,973

SUMMARY OF AGENCY'S OPEB PLAN

HISTORY OF CONTRIBUTIONS, DISBURSEMENTS, AND TOTAL ASSETS AS OF JUNE 30, 2022:



Year	Contributions	Disbursements	Total Assets
Dec-09*	\$211,652	\$0	\$212,094
Dec-10	\$230,000	\$0	\$474,880
Dec-11	\$442,146	\$0	\$905,653
Dec-12	\$305,956	\$0	\$1,337,155
Dec-13	\$365,445	\$0	\$1,952,486
Dec-14	\$550,186	\$0	\$2,593,537
Dec-15	\$358,403	\$0	\$2,933,757
Dec-16	\$588,000	\$0	\$3,730,913
Dec-17	\$378,000	\$0	\$4,699,966
Dec-18	\$105,000	\$0	\$4,554,334
Dec-19	\$0	\$0	\$5,431,436
Dec-20	\$0	\$0	\$6,134,690
Dec-21	\$0	\$0	\$6,808,004
Dec-22**	\$0	\$0	\$5,727,973

*Plan Year Ending December 2009 is based on 1 month of activity.
 **Plan Year Ending December 2022 is based on 6 months of activity.

OPEB ACTUARIAL RESULTS

- We have received the actuarial report by Nyhart dated June 4, 2021 with a valuation date as of December 31, 2020. In the table below, we have summarized the results.

Demographic Study	Valuation Date: January 1, 2019	Valuation Date: December 31, 2020
Actives	62	61
Retirees	42	47
Total	104	108
Average Active Age	42.5	41.9
Average Active Agency Years of Service	8.9	8.5

OPEB ACTUARIAL RESULTS

	Valuation Date: January 1, 2019 Discount Rate: 7.00%	Valuation Date: December 31, 2020 Discount Rate: 6.50%
Total OPEB Liability (TOL) <i>Actuarial Accrued Liability (AAL)</i>	\$9,708,832	\$10,665,771
Fiduciary Net Position <i>Actuarial Value of Assets</i>	\$4,554,334	\$6,134,689*
Net OPEB Liability (NOL) <i>Unfunded Actuarial Accrued Liability (UAAL)</i>	\$5,154,498	\$4,531,082
Funded Ratio (%)	47.0%	57.5%
Actuarially Determined Contribution (ADC)	\$631,614 <i>For FY 2019-20</i>	\$595,227 <i>for FY 2020-21</i>
Annual Benefit Payments (Pay-as-you-Go)	\$592,075 <i>For FY 2019-20</i>	\$619,973 <i>for FY 2020-21</i>

*As of June 30, 2021, assets at \$5,727,973. (approx. ~53.7% funded).

Rule of thumb: For every one percent increase in the discount rate, the unfunded liability is lowered by 10-12%.

South Orange County Wastewater Authority Post Retirement Healthcare Plan

July 29, 2022

**Presented by
Keith Stribling, CFA**

DISCUSSION HIGHLIGHTS – South Orange County Wastewater Authority

Investment objective – Balanced HM Plus

Asset Allocation: PARS/HCM Balanced HM Plus (As of 6-30-2022)

- Allocation Target – 56.60% stocks (50-70% range), 36.71% bonds (30-50% range), 6.69% cash (0-20% range)
- Large cap 31.23%, Mid-cap 5.46%, Small cap 8.65%, International 9.28%, REIT 1.99%

Performance: South Orange County Wastewater Authority

(as of 6-30-2022) gross of investment management fees, net of fund fees

- 3 months: -11.26%
- 6-months (YTD): -15.68%
- 1-Year: -13.56%
- 3-Years: 4.25%
- 5-Years: 5.57%
- 10-Years: 6.98%
- Inception to date (12-1-2009) 7.25%

Asset Allocation:

- Recently lowered equities
- Favoring value style over growth
- Recently lowered high yield
- Short duration fixed income

Economic Review

- Aggressive fiscal policy...stoking inflation
- Monetary policy changing...pullback on QE
- Rate hikes to curb inflation expectations
- Vaccines & now antiviral pills...even as covid surges possible light at the end of the covid tunnel?
- Eventually global economies will improve...but Beijing lockdowns and the Moscow war hampering global recovery
- Recession risks rising as yield curve steepens and inverts
- Risks: Inflation...Inflation...inflation...still more covid hurdles; Fed tapering & Russian aggression with Ukraine & NATO; China slowing

Account Name: PARS/PRHCP BALANCED HM PLUS

Account ID: xxxxx19207



As of: June 30, 2022

Performance Report

	3 Months	Year to Date (6 Months)	1 Year	3 Years	5 Years	10 Years	Inception to Date 12/01/2009
Cash Equivalents	.14	.15	.16	.48	.95	.54	.44
Lipper Money Market Funds Index	.13	.14	.14	.47	.91	.49	.39
Total Fixed Income	-5.08	-10.33	-10.42	-.83	.93	1.79	2.61
Bloomberg US Aggregate Bd Index (USD)	-4.69	-10.35	-10.29	-.93	.88	1.54	2.41
Total Equities	-16.04	-20.11	-16.89	6.99	8.04	10.22	10.01
Large Cap Funds	-17.10	-20.99	-14.73	9.92	10.53	12.52	11.65
S&P 500 Composite Index	-16.10	-19.96	-10.62	10.60	11.31	12.96	12.56
Mid Cap Funds	-16.84	-21.60	-17.32	6.55	7.87	9.71	
Russell Midcap Index	-16.85	-21.57	-17.30	6.59	7.96	11.29	11.89
Small Cap Funds	-15.65	-18.83	-21.25	4.86	7.85	11.56	12.65
Russell 2000 Index (USD)	-17.20	-23.43	-25.20	4.21	5.17	9.35	10.43
International Equities	-12.43	-17.70	-20.31	2.22	2.82	4.63	3.97
MSCI EAFE Index (Net)	-14.51	-19.57	-17.77	1.07	2.20	5.40	4.17
MSCI EM Free Index (Net USD)	-11.45	-17.63	-25.28	.57	2.18	3.06	2.81
REIT Funds	-15.40	-20.53	-8.06	4.11	5.24		
Wilshire REIT Index	-18.48	-21.64	-6.70	4.01	5.26	7.28	10.43
Total Managed Portfolio	-11.26	-15.68	-13.56	4.25	5.57	6.98	7.25

Returns are gross of fees not including account level advisory fees unless otherwise stated. Gross returns are presented before management and custodial fees but after all trading expenses, embedded and reflect the reinvestment of dividends and other income. Net returns are net of investment management fees in effect for the respective time period. Returns for periods over one year are annualized. An investor cannot invest directly in unmanaged indices. The information presented has been obtained from sources believed to be accurate and reliable. Past performance is not indicative of future returns. Securities are not FDIC insured have no bank guarantee and may lose value.

ASSET ALLOCATION- Balanced HM Plus

	Ticker	Investment Vehicle	Weight
Equity			56.60%
Large Cap Core	COFYX	Columbia Contrarian Core Cl Y	5.84%
	VGIAX	Vanguard Gro & Inc Admiral Shares	11.10%
Large Cap Value	DODGX	Dodge & Cox Stock Fund	5.26%
	IVE	iShares S&P 500 Value ETF	2.39%
Large Cap Growth	HNACX	Harbor CP Appre Rtrmt Cl	3.32%
	PRUFX	T. Rowe Price Growth Stock Fund	3.31%
Mid Cap Growth	IWR	iShares Russell Mid Cap ETF	5.46%
Small Cap Value	UBVFX	Undiscovered Mgrs Behavrl R6	4.47%
Small Cap Growth	VBK	Vanguard Small Cap Gr Vipers	4.18%
International Core	DFALX	DFA Large Cap International Port	3.25%
International Value	DODFX	Dodge & Cox International Stock Fund	1.16%
International Growth	MGRDX	MFS International Growth Fund	1.17%
Emerging Markets	HHHFX	Hartford Schrodr Mkts Eq	3.71%
REIT	VNQ	Vngrd Index Tr Reit Viper Shs	1.99%
Fixed Income			36.71%
Short-Term	VFSUX	Vanguard Short-Term Corp Adm Fund	7.64%
Intermediate-Term	PTRRX	PIMCO Total Return Instl Fund	9.42%
	PTRQX	Prudential Total Return BD	9.39%
	DBLFX	Doubleline Core Fixed Inc Cl I	9.36%
High Yield	PHIYX	PIMCO High Yield	0.90%
Cash			6.69%
	FGZXX	First Amern Govt Oblig Fd CL Z	6.69%
TOTAL			100.00%

PARS South Orange County Wastewater Authority

For Period Ending June 30, 2022

LARGE CAP EQUITY FUNDS							
Fund Name	1-Month Return	3-Month Return	Year-to- Date	1-Year Return	3-Year Return	5-Year Return	10-Year Return
Columbia Contrarian Core Inst3	-7.86	-16.27	-18.76	-12.91	11.28	10.53	13.12
Vanguard Growth & Income Adm	-8.77	-15.78	-19.06	-9.83	10.87	11.32	13.00
Dodge & Cox Stock I	-9.31	-12.42	-11.53	-7.57	11.27	9.92	13.09
iShares S&P 500 Value ETF	-8.25	-11.32	-11.51	-5.04	8.05	8.01	10.78
Harbor Capital Appreciation Retirement	-7.93	-25.46	-35.59	-32.06	8.25	12.14	13.69
T. Rowe Price Growth Stock I	-8.62	-25.40	-36.60	-34.11	4.36	8.70	12.52
S&P 500 TR USD	-8.25	-16.10	-19.96	-10.62	10.60	11.31	12.96
MID CAP EQUITY FUNDS							
iShares Russell Mid Cap TR USD	-9.99	-16.88	-21.63	-17.43	6.42	7.81	11.11
Russell Mid Cap TR USD	-9.98	-16.85	-21.57	-17.30	6.59	7.96	11.29
SMALL CAP EQUITY FUNDS							
Vanguard Small-Cap Growth ETF	-8.00	-20.44	-29.94	-31.77	2.34	6.81	9.82
Undiscovered Managers Behavioral Val R6	-9.94	-11.05	-7.91	-3.11	10.76	8.19	11.83
Russell 2000 TR USD	-8.22	-17.20	-23.43	-25.20	4.21	5.17	9.35
INTERNATIONAL EQUITY FUNDS							
Dodge & Cox International Stock I	-8.77	-9.49	-10.02	-10.93	3.52	2.14	6.11
DFA Large Cap International I	-9.31	-13.22	-17.50	-15.71	2.48	3.01	5.62
MFS International Growth R6	-6.78	-12.24	-19.38	-17.98	3.33	5.71	7.08
MSCI EAFE NR USD	-9.28	-14.51	-19.57	-17.77	1.07	2.20	5.40
Hartford Schrodgers Emerging Mkts Eq F	-6.94	-12.08	-19.78	-28.42	0.75	2.70	3.53
MSCI EM NR USD	-6.65	-11.45	-17.63	-25.28	0.57	2.18	3.06
REAL ESTATE FUNDS							
Vanguard Real Estate ETF	-7.51	-15.47	-20.52	-8.07	4.73	5.69	7.47
BOND FUNDS							
DoubleLine Core Fixed Income I	-2.01	-5.50	-10.11	-10.18	-1.24	0.74	2.08
PIMCO Total Return Instl	-2.07	-5.46	-11.31	-11.11	-0.77	0.99	1.87
PGIM Total Return Bond R6	-2.59	-6.71	-12.78	-12.53	-1.34	1.08	2.56
Vanguard Short-Term Investment-Grade Adm	-1.30	-1.86	-5.58	-6.10	0.22	1.25	1.70
Bloomberg US Agg Bond TR USD	-1.57	-4.69	-10.35	-10.29	-0.93	0.88	1.54
PIMCO High Yield Instl	-6.81	-9.69	-13.94	-12.68	-0.62	1.53	3.92
ICE BofA US High Yield Mstr II Index	-6.81	-9.97	-14.04	-12.66	-0.04	1.95	4.44

Source: SEI Investments, Morningstar Investments

Returns less than one year are not annualized. Past performance is no indication of future results. The information presented has been obtained from sources believed to be accurate and reliable. Securities are not FDIC insured, have no bank guarantee and may lose value.

ADMINISTRATIVE REVIEW

- 1 Future contributions
- 2 Future disbursement requests/options
- 3 Agency's future actuarial valuation for compliance
Next valuation measurement date: December 2022
- 4 Investment Guidelines Document – Needed
- 5 GASB 74/75 Compliance
- 6 Employer Portal – Available
- 7 Pension Rate Stabilization Program (PRSP)



EMPLOYER PORTAL

Public Agency Retirement Services (PARS) is pleased to announce the launch of our new employer portal for the IRC Section 115 Trust. Features include:

- Latest monthly account balance
- Transaction history
- Downloadable prior statements
- Investment Performance

To access this powerful new tool for account management, please provide:

- Opt-In Addendum
- Agency Personnel Designation Form

employer.pars.org

GASB COMPLIANCE

- **To assist our public agency clients with GASB compliance, PARS will be providing the following:**
 - An individual trust statement of each agency's plan assets that shows a reconciliation of assets held at the beginning of the fiscal year through the end of the fiscal year, breaking out the appropriate plan contributions, benefit payments, expenses, and investment earnings
 - Year-end audited financial statements of the Trust as a whole including Schedule of Changes in Fiduciary Net Position by Employer completed by CliftonLarsonAllen (CLA) that is intended to be compliant with GASB 67/68 and GASB 74/75 requirements.
 - Supporting SOC 1-Type 2 report on the controls over the calculation and allocation of additions and deductions to employer accounts within the Trust
 - Investment allocation data and information on investment policies including target asset allocations and allowable asset class allocation ranges
- PARS Auditors have determined that participating plans should be considered an agent multiple-employer defined benefit OPEB plan (agent OPEB plan) as defined under GASB

Agenda Item

5.H.

Board of Directors Meeting

Meeting Date: September 1, 2022

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Mary Carey, Finance Controller
SUBJECT: Draft GASB 68 Report for the Fiscal Year Ended June 30, 2022

Summary/Discussion

The information in this staff report was presented to the Finance Committee at its August 16, 2022, meeting.

This report presents employer-specific amounts for reporting in accordance with Governmental Accounting Standards Board Statement No. 68 (GASB 68) for CalPERS public agency cost sharing plans.

The report details the calculation of the Net Pension Liability that the Authority will record in its Audited Net Position Statement as of June 30, 2022.

The Net Pension Liability will also be distributed by Project Committee and Member Agency in the Annual Supplemental Financial Statements.

Net Pension Liability Fiscal Year Ended June 30

Description	2022	2021	2020	2019	Change between 2022 and 2021	
					\$ +/-	% Change
Measurement date	6/30/2021	6/30/2020	6/30/2019	6/30/2018		
Total pension liability	(\$62,175,535)	(\$59,026,089)	(\$55,450,648)	(\$52,230,824)	(\$3,149,446)	5.3%
Fiduciary net position	52,918,317	43,498,406	41,089,097	39,044,508	9,419,911	21.7%
Net pension (liability)	(\$9,257,218)	(\$15,527,683)	(\$14,361,551)	(\$13,186,316)	\$6,270,465	-40.4%
% Funded	85.1%	73.7%	74.1%	74.8%	11.4%	

- Net pension liability decreased by \$6.3 million primarily due to the Risk Pool's asset gain in fiscal year 2020-21, 21.3% return on investments vs. the targeted 7.15% gain. (The 7% target rate is before administrative expenses.)
- The Authority has reached the Finance Officers recommended % Funded Target, 80%-85%, per discussions on November 5, 2020.
- CalPERS FY 2021-22 loss of 6.1% vs. the targeted 6.8% gain will not be reflected until next year's financial statements.

Recommended Action: The Finance Committee recommends that the Board of Directors receive and file the GASB 68 Report as an information item prior to receipt of the Annual Financial Report and the Auditor's report on the Annual Financial Statements Audit.

Draft GASB 68 Report Net Pension Liability as of June 30, 2022

Net Pension Liability Fiscal Year Ended June 30

Description	2022	2021	2020	2019	Change between 2022 and 2021	
					\$ +/-	% Change
Measurement date	6/30/2021	6/30/2020	6/30/2019	6/30/2018		
Total pension liability	(\$62,175,535)	(\$59,026,089)	(\$55,450,648)	(\$52,230,824)	(\$3,149,446)	5.3%
Fiduciary net position	52,918,317	43,498,406	41,089,097	39,044,508	9,419,911	21.7%
Net pension (liability)	(\$9,257,218)	(\$15,527,683)	(\$14,361,551)	(\$13,186,316)	\$6,270,465	-40.4%
% Funded	85.1%	73.7%	74.1%	74.8%	11.4%	

- Net pension liability decreased by \$6.3 million primarily due to the Risk Pool's asset gain in fiscal year 2020–21, 21.3% return on investments vs. the targeted 7.15% gain. (The 7% target rate is before administrative expenses.)
- The Authority has reached the Finance Officers recommended % Funded Target, 80%–85%, per discussions on November 5, 2020.
- CalPERS FY 2021–22 loss of 6.1% vs. the targeted 6.8% gain will not be reflected until next year's financial statements.

**South Orange County Wastewater Authority
CalPERS Miscellaneous Pension Plans**

June 30, 2022

Consolidated GASB 68 Reporting Information
CalPERS Risk Pools
Preliminary Results

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July 25, 2022

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Applicable Dates and Periods

	June 30, 2022 Employer Fiscal Year
■ Measurement date	June 30, 2021
■ Measurement period	July 1, 2020 to June 30, 2021
■ Actuarial valuation date	June 30, 2020



Basis of Report

This report presents employer-specific amounts for reporting in accordance with Governmental Accounting Standards Board Statement No. 68 (GASB 68) for CalPERS public agency cost-sharing plans. Our calculations are based on information provided in actuarial valuation reports prepared by CalPERS and on the June 30, 2021 "Schedule of Employer Allocations for Components of Net Pension Liability and Schedule of Collective Pension Amounts", prepared by CalPERS and audited by BDO. We have followed the methodology described in that report and in other CalPERS publications including the GASB 68 Guide for Public Agency Cost-Sharing Multiple-Employer Defined Benefit Pension Plans. It was not part of the scope of this project, nor was information available, to review the census data, actuarial calculations or the actuarial assumptions used to prepare those reports. CalPERS reports used for our calculations are available at:

<https://www.calpers.ca.gov/page/employers/actuarial-services/gasb>

Additional information to be presented in each agency's Notes and RSI can be found on CalPERS website in the CalPERS Risk Pool reports as of the June 30, 2021 Measurement Date and CalPERS Annual Comprehensive Financial Report:

<https://www.calpers.ca.gov/docs/forms-publications/gasb-68-accounting-valuation-miscellaneous-risk-pool-2021.pdf>

<https://www.calpers.ca.gov/docs/forms-publications/gasb-68-accounting-valuation-safety-risk-pool-2021.pdf>

<https://www.calpers.ca.gov/docs/forms-publications/acfr-2021.pdf>



Net Pension Liability

Proportionate Share of Net Pension Liability/(Asset)

	Fiscal Year Ending	
■ Fiscal Year End	6/30/2022	6/30/2021
■ Measurement Date	6/30/2021	6/30/2020
■ Total	\$ 9,257,418	\$ 15,527,683

See page 20 for supporting detail.



Net Pension Liability

Proportionate Share of Net Pension Liability/(Asset)

	Percentage Share of Plan		Change: Increase/ (Decrease)
■ Fiscal Year End	6/30/2022	6/30/2021	
■ Measurement Date	6/30/2021	6/30/2020	
■ Percentage of Plan (PERF C) NPL	0.17117%	0.14271%	0.02846%

See page 20 for supporting detail.



Plan Description *

The Public Agency Cost-Sharing Multiple-Employer Defined Benefit Pension Plan (the Plan or PERF C) is administered by the California Public Employees' Retirement System (the System or CalPERS). The Plan consists of a miscellaneous risk pool and a safety risk pool, which are comprised of individual employer miscellaneous and safety rate plans, respectively. Individual employers may sponsor more than one miscellaneous and safety rate plan. Each individual employer rate plan generally has less than 100 active members.

The Plan was established to provide retirement, death and disability benefits to public agency rate plans with generally less than 100 active members. The benefit provisions for PERF C employees are established by statute. A full description regarding the number of employees covered, benefit provisions, assumptions (for funding, but not accounting purposes), and membership information for the respective rate plan is listed in the respective rate plan's June 30, 2020 Annual Valuation Report (funding valuation). Details of the benefits provided can be obtained in Appendix B of the funding valuation report. This report and CalPERS' audited financial statements are publicly available reports that can be found on CalPERS' website at <https://www.calpers.ca.gov/page/forms-publications>

* This description is from the CalPERS report:

<https://www.calpers.ca.gov/docs/forms-publications/gasb-68-public-agency-schedules-2021.pdf>



Net Pension Liability Assumptions *

The collective total pension liability for the June 30, 2021 measurement period was determined by an actuarial valuation as of June 30, 2020, with update procedures used to roll forward the total pension liability to June 30, 2021. The collective total pension liability was based on the following assumptions:

- | | |
|------------------------------------|--|
| ■ Discount Rate | 7.15% |
| ■ Inflation | 2.50% |
| ■ Salary increases | Varies by Entry Age and Service |
| ■ Mortality | Derived using CalPERS' Membership Data for all Funds. The mortality table used was developed based on CalPERS-specific data. The table includes 15 years of mortality improvements using Society of Actuaries Scale 90% of Scale MP 2016. For more details on this table, please refer to the December 2017 experience study report (based on CalPERS demographic data from 1997 to 2015) that can be found on the CalPERS website |
| ■ Post-retirement benefit increase | Contract COLA up to 2.50% until Purchasing Power Protection Allowance Floor on Purchasing Power applies |

* These assumptions are from the CalPERS report:

<https://www.calpers.ca.gov/docs/forms-publications/gasb-68-public-agency-schedules-2021.pdf>



Note Disclosures

Long-Term Expected Rate of Return *

The long-term expected rate of return on pension plan investments was determined using a building-block method in which expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class.

In determining the long-term expected rate of return, CalPERS took into account both short-term and long-term market return expectations as well as the expected pension fund cash flows. Using historical returns of all the funds' asset classes, expected compound (geometric) returns were calculated over the short-term (first 10 years) and the long-term (11+ years) using a building-block approach. Using the expected nominal returns for both short-term and long-term, the present value of benefits was calculated for each fund. The expected rate of return was set by calculating the rounded single equivalent expected return that arrived at the same present value of benefits for cash flows as the one calculated using both short-term and long-term returns. The expected rate of return was then set equal to the single equivalent rate calculated above and adjusted to account for assumed administrative expenses. The expected real rates of return by asset class are as follows:

<u>Asset Class</u>	<u>Assumed Asset Allocation</u>	<u>Real Return¹ Years 1 - 10²</u>	<u>Real Return¹ Years 11 + ³</u>
Public equity	50.00%	4.80%	5.98%
Fixed income	28.00%	1.00%	2.62%
Inflation assets	-	0.77%	1.81%
Private equity	8.00%	6.30%	7.23%
Real assets	13.00%	3.75%	4.93%
Liquidity	1.00%	-	-0.92%

* This information is from the CalPERS report: <https://www.calpers.ca.gov/docs/forms-publications/gasb-68-public-agency-schedules-2021.pdf>

¹ Figures are based on previous 2017 ALM.

² An expected inflation of 2.00% used for this period.

³ An expected inflation of 2.92% used for this period.



Note Disclosures

Discount Rate *

The discount rate used to measure the total pension liability for PERF C was 7.15%. The projection of cash flows used to determine the discount rate assumed that contributions from plan members will be made at the current member contribution rates and that contributions from employers will be made at statutorily required rates, actuarially determined. Based on those assumptions, the Plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. Therefore, the long-term expected rate of return on plan investments was applied to all periods of projected benefit payments to determine the total pension liability.

* This description is from the CalPERS report:

<https://www.calpers.ca.gov/docs/forms-publications/gasb-68-public-agency-schedules-2021.pdf>



Note Disclosures

**Sensitivity of Proportionate Share of Net Pension Liability (Asset)
to Changes in the Discount Rate**

	Discount Rate		
	6.15% (1% Decrease)	7.15% (Current Rate)	8.15% (1% Increase)
■ Measurement Date	6/30/2021		
■ Fiscal Year End	6/30/2022		
■ Net Pension Liability	\$ 17,466,537	\$ 9,257,418	\$ 2,471,058

See page 21 for supporting detail.



Note Disclosures

Pension Expense (Income) for Fiscal Year

	2021/22
■ Total pension expense (income) for fiscal year	\$ 3,743,103

See page 31 for supporting detail.



Deferred Outflows/Inflows Balances at June 30, 2022

	Deferred Outflows of Resources	Deferred Inflows of Resources
■ Differences between expected and actual experience *	\$ 1,038,120	-
■ Changes of assumptions *	-	-
■ Net differences between projected and actual earnings on plan investments *	-	(8,081,236)
■ Change in employer's proportion **	227,982	(31,530)
■ Differences between the employer's contributions and the employer's proportionate share of contributions***	-	(659,931)
■ Pension contributions subsequent to measurement date	1,783,637	-
■ Total	<u>3,049,739</u>	<u>(8,772,697)</u>

* Supporting detail on page 23.

** Supporting detail on page 26.

*** Supporting detail on page 29.



**Recognition of Deferred Outflows and Inflows of Resources
in Future Pension Expense**

	Deferred Outflows/(Inflows) of Resources
■ Fiscal Year Ending June 30:	
● 2023	\$ (1,656,966)
● 2024	(1,736,662)
● 2025	(1,879,730)
● 2026	(2,233,237)
● 2027	-
● Thereafter	-

Supporting detail on page 30.



Required Supplementary Information

**Schedule of Authority's Proportionate Share
of the Plan's (PERF C) Net Pension Liability**

	Fiscal Year End	
	6/30/22	6/30/21
■ Measurement Date	6/30/21	6/30/20
■ Authority's proportion of the net pension liability	0.17117%	0.14271%
■ Authority's proportionate share of the net pension liability	\$ 9,257,418	\$ 15,527,683
■ Authority's covered payroll *	6,607,567	6,456,681
■ Authority's proportionate share of the net pension liability as a percentage of covered payroll	140.10%	240.49%
■ Plan's fiduciary net position as a percentage of the plan's total pension liability **	88.29%	75.10%

* For the year ending on the measurement date.

** Supporting detail on page 17.



Required Supplementary Information

Schedule of the Authority's Contributions

Contributions for the fiscal year ending:	6/30/22	6/30/21
■ Actuarially determined contribution	\$ 1,783,637	\$ 1,620,095
■ Contributions in relation to the actuarially determined contribution	<u>1,783,637</u>	<u>1,620,095</u>
■ Contribution deficiency (Excess)	-	-
■ Authority's covered payroll *	6,812,966	6,607,567
■ Contributions as a percentage of covered payroll	26.18%	24.52%

* For the fiscal year ending on the date shown.



Actuarially Determined Contribution Assumptions *

■ Valuation Date	June 30, 2019
■ Actuarial cost method	Entry age normal cost method
■ Amortization method	Varies by date established and source. May be level dollar or level percent of pay and may include direct rate smoothing
■ Remaining Amortization Periods	Differs by employer rate plan but not more than 29 years
■ Asset valuation method	Market value of assets
■ Inflation	2.50%
■ Salary increases	Varies by Entry Age and Service
■ Discount Rate **	7.00% (net of administrative expenses)
■ Mortality	Derived using CalPERS' Membership Data for all Funds. The post-retirement mortality rates include 15 years of projected on-going mortality improvement using 90 percent of Scale MP 2016 published by the Society of Actuaries

* From the CalPERS reports (Appendix A):

<https://www.calpers.ca.gov/docs/forms-publications/actuarial-valuation-section2-miscellaneous-2019.pdf>

<https://www.calpers.ca.gov/docs/forms-publications/actuarial-valuation-section2-safety-2019.pdf>

** Please note, the discount rate used for Actuarially Determined Contributions is different from the one used for Total Pension Liability (page 6). You can find more information on this here:

<https://www.bartel-associates.com/news/2020/03/27/pension-plan-funding-and-accounting-comparison>



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Data as of 6/30/21 Measurement Date

	Miscellaneous Risk Pool	Safety Risk Pool	Total
■ Employer Allocation Basis*			
Total Pension Liability	0.31143%	N/A	N/A
Fiduciary Net Postion	0.29292%	N/A	N/A
■ Data from Risk Pool Reports for Measurement Date June 30, 2021			
Total Pension Liability	\$ 19,964,594,105	\$ 26,210,348,159	\$ 46,174,942,264
(1) Fiduciary Net Postion	18,065,791,524	22,700,862,352	40,766,653,876
Net Pension Liability	1,898,802,581	3,509,485,807	5,408,288,388
Funded Percentage	N/A	N/A	88.29%
■ Sensitivity			
(2) NPL @ 6.15% discount rate	4,534,745,933	7,037,624,888	
(1) + (2) TPL @ 6.15% discount rate	22,600,537,457	29,738,487,240	
(3) NPL @ 8.15% discount rate	(280,294,125)	611,555,373	
(1) + (3) TPL @ 8.15% discount rate	17,785,497,399	23,312,417,725	
■ Collective Pension Expense			
	148,495,760	188,401,318	



■ Deferred Outflows (Inflows) Balances at June 30, 2021 Measurement Date (MD)			
MD			
2019	Differences between expected and actual experience	52,906,588	95,545,819
2020	Differences between expected and actual experience	36,653,287	178,055,063
2021	Differences between expected and actual experience	123,370,455	325,991,748
2018	Differences between projected and actual earnings on plan investments	(33,897,346)	(40,641,618)
2019	Differences between projected and actual earnings on plan investments	28,294,262	33,417,976
2020	Differences between projected and actual earnings on plan investments	180,298,870	217,660,052
2021	Differences between projected and actual earnings on plan investments	(1,832,250,032)	(2,299,255,130)
■ Other			
	Aggregate Employer Contributions	710,555,982	1,212,802,371
	Expected Average Remaining Service Lifetime (EARSL)	N/A	3.7
	Future Recognition of Deferred Amounts		
	Measurement Date		
	2022	(298,750,813)	(210,990,080)
	2023	(321,832,644)	(285,678,176)
	2024	(365,977,951)	(417,744,053)
	2025	(458,062,508)	(574,813,781)

*From the report: <https://www.calpers.ca.gov/docs/forms-publications/gasb-68-public-agency-schedules-2021.pdf>



Supporting Calculations

Employer Contributions during Fiscal Year

	2021/22	2020/21
■ Misc Tier 1 - 9523	\$ 1,337,610	\$ 1,201,232
■ Misc Tier 2 - 9524	138,886	134,083
■ Misc PEPR - 27120	307,141	284,780
■ Total	1,783,637	1,620,095



Supporting Calculations

Proportionate Share of Net Pension Liability/(Asset)

	Fiscal Year Ending 6/30/2022		
	Measurement Date 6/30/2021		
	Total Pension Liability	Fiduciary Net Position	Net Pension Liability/(Asset)
■ Authority % *	0.31143%	0.29292%	
■ Total Misc Risk Pool *	\$ 19,964,594,105	\$ 18,065,791,524	N/A
■ Authority's Proportionate Share	62,175,735	52,918,317	\$ 9,257,418
■ Total PERF-C NPL *	N/A	N/A	5,408,288,388
■ Authority's Proportionate Share of NPL	N/A	N/A	0.17117%

* Supporting detail on page 17.



Supporting Calculations

Sensitivity of Proportionate Share of Net Pension Liability (Asset) to Changes in the Discount Rate

	Discount Rate		
	6.15%	7.15%	8.15%
■ Measurement Date	6/30/2021		
■ Fiscal Year End	6/30/2022		
■ Miscellaneous			
Risk Pool Total Pension Liability *	\$ 22,600,537,457	\$ 19,964,594,105	\$ 17,785,497,399
Employer's TPL Proportion	0.31143%	0.31143%	0.31143%
Proportionate share of TPL	\$ 70,384,854	\$ 62,175,735	\$ 55,389,375
Less: Proportionate share of FNP **	<u>52,918,317</u>	<u>52,918,317</u>	<u>52,918,317</u>
Net Pension Liability	17,466,537	9,257,418	2,471,058

* Supporting detail on page 17.

** Supporting detail on page 20.



Supporting Calculations

Allocation Factor for Deferred Inflows and Outflows

	<u>Miscellaneous</u>
(1) Total Misc Risk Pool Net Pension Liability*	\$ 1,898,802,581
(2) Authority's Proportionate Share of Net Pension Liability **	9,257,418
(3) Authority's Deferred Outflows/Inflows of Resources Allocation Basis (2) ÷ (1) ***	0.48754%

* Supporting detail on page 17.

** Supporting detail on page 20.

*** Deferred Outflows/Inflows of resources allocated based on the employer's share of the Miscellaneous Risk Pool net pension liability, per CalPERS' guidance in the 6/30/2021 Schedule of Employer Allocations for Components of Net Pension Liability and Schedule of Collective Pension Amounts.



Supporting Calculations

Total Risk Pool Deferred Outflows/(Inflows)

Measurement Date	Item	Misc Risk Pool*	Employer Amount (0.48754%)**	Employer Deferred Outflow	Employer Deferred (Inflow)
Differences between Actual and Expected Experience					
2019		\$ 52,906,588	\$ 257,941	\$ 257,941	-
2020		36,653,287	178,699	178,699	-
2021		123,370,455	<u>601,480</u>	<u>601,480</u>	<u>-</u>
Total Differences between Actual and Expected Experience			1,038,120	1,038,120	-
Net Difference between Projected and Actual Return on Investments					
2018 to 2021		(1,657,554,246)	(8,081,236)	-	(8,081,236)

* Supporting detail on page 18. ** Supporting detail on page 22, unrounded allocation factor is used.



Supporting Calculations

Change in Proportion Calculation

	Unrecognized Differences between Expected and Actual Experience	Unrecognized Changes in Assumptions	Unrecognized Net Difference Between Projected and Actual Earnings on Investments	Total Pension Liability	Fiduciary Net Position	Total
■ Miscellaneous Risk Pool						
Net deferral at 6/30/2020 MD	\$217,370,008	\$ (30,085,020)	\$125,304,636	\$(18,920,437,526)	\$14,702,361,183	
Employer proportion at 6/30/2021 MD*	<u>0.48754%</u>	<u>0.48754%</u>	<u>0.48754%</u>	<u>0.31143%</u>	<u>0.29292%</u>	
Employer amount using 6/30/2021 basis	1,059,765	(146,676)	610,910	(58,923,919)	43,066,156	(14,333,764)
Employer balances at 6/30/2020 MD	<u>800,187</u>	<u>(110,750)</u>	<u>461,274</u>	<u>(59,026,089)</u>	<u>43,498,406</u>	<u>(14,376,972)</u>
Difference	(259,578)	35,926	(149,636)	(102,170)	432,250	(43,208)

* Supporting details on pages 17 and 22, unrounded allocation factor is used.



Supporting Calculations

Change in Proportion

Calculation at June 30, 2022 financial statement date

	2018 Measurement Date	2019 Measurement Date	2020 Measurement Date	2021 Measurement Date	Total
Balance reported at June 30, 2021	\$ (15,676)	\$ 135,645	\$ 260,859	\$ (43,208) *	
Remaining Amortization Years	0.8 years	1.8 years	2.8 years	3.7 years	
Current Year Amortization	15,676	(75,358)	(93,164)	11,678	(141,168)
Balance reported at June 30, 2022	-	60,287	167,695	(31,530)	196,452

* Balance at July 1, 2021, after 6/30/21 reporting date.



Supporting Calculations

Recognition Schedule for Deferred Outflows/Inflows at June 30, 2022 Employer-Specific Deferral: Change in Proportions

	Initial Recognition Period				Total
	2018/19	2019/20	2020/21	2021/22	
■ Measurement Period	2017/18	2018/19	2019/20	2020/21	
■ Initial amount	\$ (74,455)	\$ 286,361	\$ 354,023	\$ (43,208)	
■ Initial recognition period	3.8 years	3.8 years	3.8 years	3.7 years	
■ Amount recognized in FY pension expense					
● 2018/19 (3rd prior year)	(19,593)	N/A	N/A	N/A	(19,593)
● 2019/20 (2nd prior year)	(19,593)	75,358	N/A	N/A	55,765
● 2020/21 (Prior year)	(19,593)	75,358	93,164	N/A	148,929
● 2021/22 (Current year)	(15,676)	75,358	93,164	(11,678)	141,168
● 2022/23	-	60,287	93,164	(11,678)	141,773
● 2023/24	-	-	74,531	(11,678)	62,853
● 2024/25	-	-	-	(8,174)	(8,174)
● Total	(74,455)	286,361	354,023	(43,208)	522,721
■ Deferred Outflows at FYE 6/30/2022	-	60,287	167,695	-	227,982
■ Deferred Inflows at FYE 6/30/2022	-	-	-	(31,530)	(31,530)



Supporting Calculations

Difference in Actual Contribution and Proportionate Share of Contribution Calculation

	<u>Miscellaneous</u>
(1) Aggregate Risk Pool employer contributions for MP 2020/21*	\$ 710,555,982
(2) Employer proportion (FNP %)**	0.29292%
(3) Proportionate share of aggregate Employer contribution (1) * (2)	2,081,361
(4) Actual Contribution for Measurement Period 2020/2021	1,620,095
(5) Difference (4) - (3)	(461,266)

* Supporting detail on page 18.

** Supporting detail on page 17.



Supporting Calculations

Difference in Actual Contributions and Proportionate Share of Contributions

Calculation at June 30, 2022 financial statement date

	2018 Measurement Date	2019 Measurement Date	2020 Measurement Date	2021 Measurement Date	Total
Balance reported at June 30, 2021	(82,660)	(191,948)	(370,253)	(461,266) *	
Remaining Amortization Years	0.8 years	1.8 years	2.8 years	3.7 years	
Current Year Amortization	82,660	106,637	132,233	124,666	446,196
Balance reported at June 30, 2022	-	(85,311)	(238,020)	(336,600)	(659,931)

* Balance at July 1, 2021, after 6/30/21 reporting date.



Supporting Calculations

Recognition Schedule for Deferred Outflows/Inflows at June 30, 2022 Employer-Specific Deferral: Difference Between Actual & Proportionate Share of Employer Contributions

	Initial Recognition Period				Total
	2018/19	2019/20	2020/21	2021/22	
■ Measurement Period	2017/18	2018/19	2019/20	2020/21	
■ Initial amount	\$ (392,641)	\$ (405,222)	\$ (502,486)	\$ (461,266)	
■ Initial recognition period	3.8 years	3.8 years	3.8 years	3.7 years	
■ Amount recognized in FY pension expense					
● 2018/19 (3rd prior year)	(103,327)	N/A	N/A	N/A	(103,327)
● 2019/20 (2nd prior year)	(103,327)	(106,637)	N/A	N/A	(209,964)
● 2020/21 (Prior year)	(103,327)	(106,637)	(132,233)	N/A	(342,197)
● 2021/22 (Current year)	(82,660)	(106,637)	(132,233)	(124,666)	(446,196)
● 2022/23	-	(85,311)	(132,233)	(124,666)	(342,210)
● 2023/24	-	-	(105,787)	(124,666)	(230,453)
● 2024/25	-	-	-	(87,268)	(87,268)
● Total	(392,641)	(405,222)	(502,486)	(461,266)	(1,761,615)
■ Deferred Outflows at FYE 6/30/2022	-	-	-	-	-
■ Deferred Inflows at FYE 6/30/2022	-	(85,311)	(238,020)	(336,600)	(659,931)



Supporting Calculations

Recognition of Deferrals in Future Pension Expense

Measurement Period Ending June 30:	Fiscal Year Ending June 30:	Miscellaneous Risk Pool Amount			Employer Specific Amounts		Total
		Risk Pool Amount*	Applicable Percentage**	Authority's Proportionate Share	Change in Proportion***	Difference Between Actual and Proportionate Share of Contributions****	
■ 2022	■ 2023	\$ (298,750,813)	0.48754%	\$ (1,456,529)	\$ 141,773	\$ (342,210)	\$ (1,656,966)
■ 2023	■ 2024	(321,832,644)	0.48754%	(1,569,062)	62,853	(230,453)	(1,736,662)
■ 2024	■ 2025	(365,977,951)	0.48754%	(1,784,288)	(8,174)	(87,268)	(1,879,730)
■ 2025	■ 2026	(458,062,508)	0.48754%	(2,233,237)	-	-	(2,233,237)
■ 2026	■ 2027	-	0.48754%	-	-	-	-
■ Thereafter	■ Thereafter	-	0.48754%	-	-	-	-

* See page 18.

** See page 22, unrounded allocation factor is used.

*** See page 26.

**** See page 29.



Supporting Calculations

GASB 68 Balance Equation for Pension Expense Calculation

	Fiscal year ending		Change
	6/30/2021	6/30/2022	
■ Measurement date	6/30/2020	6/30/2021	
■ Total pension liability	\$ 59,026,089	\$ 62,175,735	\$ 3,149,646
■ Fiduciary net position	43,498,406	52,918,317	9,419,911
■ Net pension liability/(asset)	15,527,683	9,257,418	(6,270,265)
■ Deferred inflows of resources	771,287	8,772,697	8,001,410
■ Deferred (outflows) of resources *	(1,657,965)	(1,266,102)	391,863
■ Contributions in the measurement period	-	1,620,095	1,620,095
■ Net balance sheet impact	14,641,005	18,384,108	3,743,103
■ Pension Expense (Income)			3,743,103

* The deferral for contributions after the measurement date is excluded.



Supporting Calculations

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Journal Entries

Beginning Balances

Following summarizes the beginning balances from the 2020 measurement date *

	Debit	Credit
Differences between expected and actual experience	\$ 800,187	\$ -
Changes of assumptions	-	(110,750)
Net differences between projected and actual earnings on plan investments	461,274	-
Change in employer's proportion	396,504	(15,676)
Differences between the employer's contributions and the employer's proportionate share of contributions	-	(644,861)
Total deferred outflow/inflow	1,657,965	(771,287)
Pension contributions subsequent to measurement date	1,620,095	-
Net Pension Liability	-	(15,527,683)
Net Impact	13,020,910	-
<i>Check</i>	16,298,970	(16,298,970)

* Recorded at 6/30/21 fiscal year end.



Journal Entries

Employer Contributions

Following records the impact of employer contributions, assuming employer contributions were recorded as pension expense when paid.

	Debit	Credit
Net pension liability	\$ 1,620,095	
Deferred Outflow - FY 2021 contributions		\$ (1,620,095)
Deferred Outflow - FY 2022 contributions	1,783,637	
Pension Expense		(1,783,637)
<i>Check</i>	3,403,732	(3,403,732)



Journal Entries

Summary Journal Entries - Pension Expense

Following records the impact of current year pension expense

	Debit	Credit
Deferred Outflows	\$ 237,933	\$ (629,796)
Deferred Inflows	110,750	(8,112,160)
Pension Expense (Income)	3,743,103	-
Net pension liability	4,650,170	-
 <i>Check</i>	 8,741,956	 (8,741,956)

See pages 38 and 37 ("Subtotal" row) for details.



Journal Entries

Ending Balances at June 30, 2022

	Debit	Credit
Differences between expected and actual experience	\$ 1,038,120	\$ -
Changes of assumptions	-	-
Net differences between projected and actual earnings on plan investments	-	(8,081,236)
Change in employer's proportion	227,982	(31,530)
Differences between the employer's contributions and the employer's proportionate share of contributions	-	(659,931)
Total deferred outflow/inflow	1,266,102	(8,772,697)
Pension contributions subsequent to measurement date	1,783,637	-
Net Pension Liability (NPL)	-	(9,257,418)
Net Impact	14,980,376	-
 <i>Check</i>	 18,030,115	 (18,030,115)
Total pension expense (income) for FYE 2022	3,743,103	-



Reconciliation of Deferred Outflows

(Detail for page 35)

Deferred Outflows	Opening Balance Debit	Journal Entry- Debit	Journal Entry - (Credit)	Ending Balance Debit
Differences between actual and expected experience	\$ 800,187	\$ 237,933	\$ -	\$ 1,038,120
Change in assumptions	-	-	-	-
Differences between projected and actual earnings on plan investments	461,274	-	(461,274)	-
<u>Employer Specific</u>				
Change in employer's proportion	396,504	-	(168,522)	227,982
Differences between the employer's contributions and the employer's proportionate share of contributions	-	-	-	-
Subtotal	1,657,965	237,933	(629,796)	1,266,102
Contributions after the Measurement Date	1,620,095	1,783,637	(1,620,095)	1,783,637
Total Deferred Outflows	3,278,060	2,021,570	(2,249,891)	3,049,739

Note "Changes" for Risk Pool deferrals equals total change from prior year to current year. "Changes" for employer-specific deferrals includes recognition of previous deferral or establishment of new deferral.



Reconciliation of Deferred Inflows

(Detail for page 35)

Deferred Inflows	Opening Balance (Credit)	Journal Entry- (Credit)	Journal Entry - Debit	Ending Balance (Credit)
Differences between actual and expected experience	\$ -	\$ -	\$ -	\$ -
Change in assumptions	(110,750)	-	110,750	-
Differences between projected and actual earnings on plan investments	-	(8,081,236)	-	(8,081,236)
<u>Employer Specific</u>				
Change in employer's proportion	(15,676)	(15,854)	-	(31,530)
Differences between the employer's contributions and the employer's proportionate share of contributions	(644,861)	(15,070)	-	(659,931)
Total Deferred Inflows	(771,287)	(8,112,160)	110,750	(8,772,697)

Note "Changes" for Risk Pool deferrals equals total change from prior year to current year. "Changes" for employer-specific deferrals includes recognition of previous deferral or establishment of new deferral.



Reconciliation of Deferred Outflows/(Inflows)

Summary of Balances

	Fiscal year ending	
	6/30/2021	6/30/2022
■ Measurement date	6/30/2020	6/30/2021
■ Total pension liability	\$ (59,026,089)	\$ (62,175,735)
■ Fiduciary net position	<u>43,498,406</u>	<u>52,918,317</u>
■ Net pension (liability)/asset	(15,527,683)	(9,257,418)
■ Deferred (inflows) of resources	(771,287)	(8,772,697)
■ Deferred outflows of resources	<u>3,278,060</u>	<u>3,049,739</u>
■ Net balance sheet impact	(13,020,910)	(14,980,376)

Deferred Outflows includes contributions after the measurement date.



Reconciliation of Deferred Outflows/(Inflows)

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Agenda Item

5.1.

Board of Directors Meeting

Meeting Date: September 1, 2022

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Mary Carey, Finance Controller

SUBJECT: Bartel Associates, LLC was acquired by Foster & Foster Consulting Actuaries, Inc. Effective July 1, 2022

Summary/Discussion

This agenda item is to inform the Board that Bartel Associates was acquired by Foster and Foster Consulting Actuaries, Inc., a national actuarial consulting firm that has been serving the public sector since 1979. Bartel expects to continue business as usual, and most employees will remain with Foster and Foster.

Bartel Associates, LLC will continue to exist for a while and can continue doing business under the current DBA, or it can change all open contracts and new contracts to Foster and Foster if SOCWA prefers.

On April 7, 2022, the Board authorized the Authority to acquire valuation and actuary services from Bartel Associates and Nyhart over two years in a combined amount of \$15,000 for both firms.

Bartel Associates provides:

- Fiscal Year End Net Pension Liability Change
- Pension and OPEB Termination Liability Template for Agencies leaving the Joint Powers Authority (JPA)
- Potential Changes to Board Approved Methodology for Distribution of Long-Term Liabilities

Nyhart provides:

- Fiscal Yearend Net OPEB Liability Change
- Termination Liability for OPEB
- OPEB Valuation Reports

Bartel and Nyhart services were recommended as a continuation of the work the Firms completed previously to develop templates to distribute the Authority's three long-term liabilities by project committee and member agency, and the Net Pension Liability, and Net OPEB Liability annual reporting. This item was brought to the attention of the Finance Committee and Board due to expenditures over a number of years totaling cumulative greater than \$50,000 for each firm. The majority of the expenses in past years related to development of options for allocation of unfunded liabilities and other projects.

Bartel Associates, LLC was acquired by Foster & Foster
Consulting Actuaries, Inc. Effective July 1, 2022
September 1, 2022

Page 2 of 2

SOCWA uses the Firms because of their expertise, competence, and experience with our organization and in the type of service required and in line with the project's complexity.

Recommended Action: The Finance Committee recommends that the Board of Directors authorize the General Manager to modify the Bartel services contract to receive services from the acquiring firm, Foster and Foster.

Agenda Item

5.J.

Board of Directors Meeting

Meeting Date: September 1, 2022

TO: Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Jim Burror, Director of Operations
SUBJECT: Operations Report (*July 2022*)

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 (*July and August 2022*)

Fiscal impact

No change.

Recommended Action: Receive and file the Operational Reports.

Monthly Operational Report

SOCWA Operational Report July 2022

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)	2.84	6.82	7.40	0.97	18.03
Effluent (mgd)	1.84	0.55	7.40	2.87	12.66
Peak Flow (mgd)	5.58	14.15	8.94	6.79	35.46
Influent BOD (mg/l)	258	354	295	420	
Influent TSS (mg/l)	252	371	760	616	
Effluent BOD (mg/l)	3.7	3.1	8.7	7.0	
Effluent TSS (mg/l)	3.7	4.9	7.5	6.5	
Effluent Turbidity (NTU)	2.3	2.4	3.9	4.3	

(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)	1.38	6.27		7.65
Days of Operation (days)	31	31		
Total Flow (million gallons)	42.7	194.3		237.0
Plant Irrigation (million gallons)	0.00	0.06	0.16	
AWT Time Online (%)	100.0	98.5		

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 July 2022 (cont'd)

Biosolids Management

Biosolids Management Site	CTP	RTP	JBL	Totals
Synagro Compost (tons)		784.5	0.0	784.5
Nursery Products (tons)		15.4	31.7	47.1
Prima Deshecha (tons)		21.9	0.0	21.9
Other: _____ (tons)		0.0	0.0	0.0
Total Processed (tons)		821.8	31.7	853.5

Summary of Maintenance Activities

Task Type	CTP	RTP	JBL	Totals
Preventative Maintenance	75	453	381	909
Corrective Maintenance	8	82	53	143

Site Visitors

Visitor Types	CTP	RTP	JBL	Totals
Regulatory	0	0	0	0
Member Agency	0	11	0	11
Residents	0	0	0	0
Others	5	0	11	16
Tours #/Visitors	0	0	0	0

Grit Disposal Management

Grit & Screenings	CTP	RTP	JBL	Totals
Simi Valley Landfill (tons)	6.0	18.7	168.3	193.0

Chemical and Energy Utilization

Chemical/Utility	CTP	RTP	JBL	Totals
Ferric Chloride (tons)	9.6	NA	NA	9.6
Utility Power Purchase (kWh)	190,463	-3,666	172,293	359,090
Cogen Power (kWh)		618,474	446,052	1,064,526
Natural Gas (Dth)	NA	NA	1,561	1,561
Digester Gas to Engine (scfm)		9,305,569	4,837,383	14,142,952
Digester Gas to Boiler (scfm)		0		0
Digester Gas to Flares (scfm)		3,619	175,170	178,789
Digester Gas Power Savings		\$135,573.00		

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 July 2022 (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	1.526	50.87%				1.53
EBSB	0.087	2.90%				0.09
SCWD	1.387	46.23%		1.656	19.79%	3.04
MNWD	0.000	0.00%	6.82	1.400	16.73%	8.22
CSJC				2.104	25.16%	2.10
SMWD				3.206	38.32%	3.21
Total	3.001	100.00%	6.82	8.366	100.00%	18.18

Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	SJCOO Meter (mgd)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB				1.53	32.38%	1.53	
EBSB				0.09	1.85%	0.09	
SCWD	1.84	17.09%		0.09	1.82%	1.92	Includes Desalters
MNWD	1.62	15.05%		0.55	11.68%	2.17	
ETWD				1.25	26.46%	1.25	Direct Outfall Only
CSJC	2.42	22.48%				2.42	Incudes Desalter
SMWD	3.22	29.95%				3.22	Includes Chiquita
CSC	1.66	15.43%				1.66	Direct Outfall Only
IRWD				1.22	25.81%	1.22	Direct Outfall Only
Total	10.74	100.00%	13.45	4.71	100.00%	15.46	

SOCWA Operational Report July 2022 (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%	2.104	25.16%	2.10	25.16%
MNWD	3.00	23.08%	1.400	16.63%	1.400	16.73%	1.40	16.73%
SCWD	3.75	28.85%	1.610	19.12%	1.656	19.79%	1.66	19.79%
SMWD	2.25	17.31%	3.200	38.00%	3.206	38.32%	3.21	38.32%
Total	13.00	100.00%	8.420	100.00%	8.366	100.00%	8.37	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%	5,799	23.23%	6,352	23.10%
MNWD	8,340	21.62%	6,169	23.63%	4,535	18.16%	6,449	23.45%
SCWD	7,715	20.00%	5,584	21.39%	4,251	17.02%	6,157	22.38%
SMWD	10,946	28.38%	8,473	32.45%	10,383	41.59%	8,546	31.07%
Total	38,573	100.00%	26,110	100.00%	24,968	100.00%	27,504	100.00%

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

Agency	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CSC	16.63%	13.300	16.63%	1.658	15.43%	1.658	15.43%
CSJC	11.08%	8.860	11.08%	2.415	22.48%	2.415	22.48%
MNWD(3)	15.51%	12.410	15.51%	1.617	15.05%	1.617	15.05%
SCWD	12.46%	9.970	12.46%	1.836	17.09%	1.836	17.09%
SMWD	44.32%	35.460	44.33%	3.217	29.95%	3.217	29.95%
Total	100.00%	80.000	100.00%	10.743	100.00%	10.743	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 July 2022 (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%	1.526	50.87%	1.526	50.87%
EBSB	0.20	2.99%	0.060	2.21%	0.087	2.90%	0.087	2.90%
SCWD	2.00	29.85%	1.153	42.56%	1.387	46.23%	1.387	46.23%
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%	3.001	100.00%	3.001	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	0.0142	0.0142	0.2047%	0.0142	0.2047%
EBSB	0.00001	0.0001%	0.0000	0.0008	0.0008	0.0117%	0.0008	0.0117%
SCWD	0.00427	0.0562%	0.0000	0.0129	0.0129	0.1861%	0.0129	0.1861%
ETWD	0.01562	0.2055%	0.0000	0.0164	0.0164	0.2370%	0.0164	0.2370%
MNWD	7.57236	99.6439%	6.8174	0.0638	6.8813	99.3606%	6.8813	99.3606%
Total	7.59942	100.0000%	6.8174	0.1081	6.9255	100.0000%	6.9255	100.0000%

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

SOCWA Operational Report July 2022 (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%	143,023	13.11%	143,023	13.11%
EBSB	295	0.59%	177	0.48%	8,152	0.75%	8,152	0.75%
SCWD	4,480	8.96%	3,392	9.16%	129,977	11.92%	129,977	11.92%
ETWD	10,200	20.41%	5,305	14.32%	165,556	15.18%	165,556	15.18%
MNWD	29,395	58.82%	23,769	64.16%	643,906	59.04%	643,906	59.04%
Total	49,975	100.00%	37,049	100.00%	1,090,613	100.00%	1,090,613	100.00%

Project Committee No. 24 (ACOO)

Agency	Own (%)	Budget (mgd)	Budget (%)	Month Outfall Flow (mgd)	Month Outfall Flow (%)	FY Avg Outfall Flow (mgd)	FY Avg Outfall Flow (%)
CLB	11.00%	5.500	11.00%	1.526	32.38%	1.526	32.38%
EBSB	0.78%	0.390	0.78%	0.087	1.85%	0.087	1.85%
ETWD	16.30%	8.151	16.30%	1.247	26.46%	1.247	26.46%
IRWD	15.76%	7.880	15.76%	1.216	25.81%	1.216	25.81%
MNWD	43.85%	21.924	43.85%	0.551	11.68%	0.551	11.68%
SCWD	12.31%	6.155	12.31%	0.086	1.82%	0.086	1.82%
Total	100.00%	50.000	100.00%	4.713	100.00%	4.713	100.00%

SOCWA Operational Report July 2022 (cont'd)

Select Critical Equipment Repairs

JBL - PC2

Troubleshoot Process Water Pump #3.
Replaced broken glass site on Caustic Tank Drain Line.
Repaired broken water line near Building #40.
Troubleshoot centrifuge polymer pumps.
Repaired, calibrated, and certified truck scales.
Repaired failing Conveyor #2.
Repaired failing skirt and wiper for the conveyor system.
Supported Package B Construction
Inspected and repaired equipment damaged by an intruder.

CTP - PC15

Continued landscaping modifications per OCFA recommendations.
Tested standby power systems as part of the Coastal Fire after actions recommendations.
Replaced several fire hydrants as part of the Coastal Fire after actions recommendations.

RTP - PC17

Replaced sun rotted tubing on the AWT#2 turbidity meter.
Troubleshoot the AWT#2 pulsing during cleaning for Cell #2.
Replaced failed RAS TSS probe and replaced worn wiper.
Repaired Aeration Blower #3 that had low oil pressure causing shutdowns.
Repaired Aeration Blower #2 that had an electrical switch fail, causing shutdowns.
Troubleshoot the AWT#2 effluent Turbidity Meter that was reading zero.
Troubleshoot failing Digester #2 level sensor.
Repaired Fan 41513 failed ductwork.
Replaced failed solenoid valve for centrifuge diverter gate.
Unclogged Aeration Tank #5 drain system that was full of sand.
Supported ongoing aeration tank diffuser construction.
Replaced failing and corroded odor box for Aeration Tank #5.
Swapped out failed carbon media for the Cogen gas cleaning system.
Cleaned out Grit Tank #2 and repaired several failing drain lines.

Support Services - ALL PC'S

Troubleshoot the East Headworks Scrubber at JBL.
Troubleshoot communication fail alarm for the 9-side Blower Building at JBL.
Troubleshoot fail alarms for the centrifuge system at JBL.
Replaced failed Bar Screen #1 Motor.
Swapped out failing effluent flow meter for recalibration at JBL.
Troubleshoot RAS Flow Meter for the 9-Side at JBL.

SOCWA Operational Report July 2022 (cont'd)

Select Critical Equipment Repairs (cont'd)

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

Replaced several deck receptacles that were corroded and unsafe at JBL.
Replaced failing D.O. probe for Aeration Tank 5 at JBL.
Troubleshoot SJCOO Surge Tower alarms not calling out through SCADA.
Troubleshoot failing Process Water Pump #1 at JBL.
Troubleshoot the West Primary Scum Skimmer at CTP.
Upgraded the Sludge Export control system to operate on flow versus pressure following the replacement of the sludge forcemain at CTP.
Troubleshoot the faulty DPS#1 pump at CTP.
Replaced the failing MLSS probe and the West #1 Aeration Tank at CTP.
Replaced the failing West RAS probe at CTP.
Troubleshoot failing Cogen NOx sensor at RTP.
Troubleshoot failing CEMS analyzer sensors at RTP.
Troubleshoot air balancing for aeration system with 4 tanks with the new EDI diffusers at RTP.
Troubleshoot the AWT#2 Chem Clean programming that was causing power spikes at RTP.
Troubleshoot the Godwin #1 Pump that was starting unexpectedly at RTP.
Replaced obsolete and failing weather station at RTP.
Troubleshoot failing foul air fan in Building #40 at RTP.
Replaced several obsolete UPS's in PLC's at RTP.
Troubleshoot DAF#3 Foul Air Meter that was counting backward due to a short at RTP.
Replaced a failed backwash sensor for AWT#2 at RTP.
Troubleshoot DAF#2 Motor Starter error at RTP.
Replaced failed AWT#2 Instrument air blower at RTP.
Troubleshoot Centrifuge #2 failing starting systems at RTP.

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

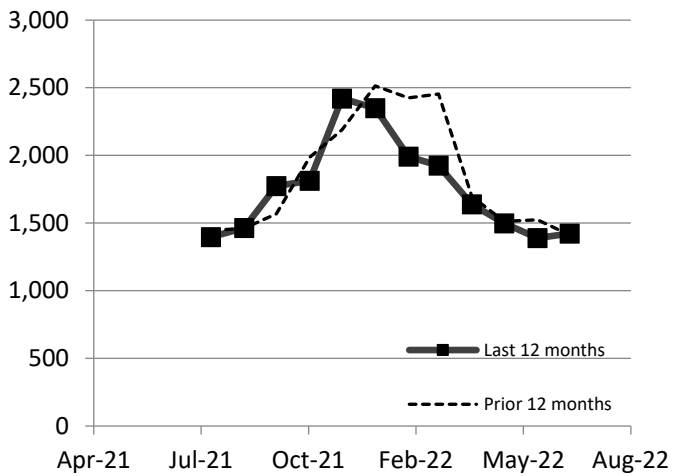
SOCWA Ocean Outfall Discharges by Agency

SOCWA Operational Report July 2022 (cont'd)

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.53	32.38%	1.53
EBSD			0.09	1.85%	0.09
SCWD	1.84	17.09%	0.09	1.82%	1.92
MNWD	1.62	15.05%	0.55	11.68%	2.17
ETWD			1.25	26.46%	1.25
CSJC	2.42	22.48%			2.42
SMWD	3.22	29.95%			3.22
CSC	1.66	15.43%			1.66
IRWD			1.22	25.81%	1.22
Total	10.74	100.00%	4.71	100.00%	15.46
or Acre-Feet per year equivalent					17,311

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

Jul-22	1,422
Jun-22	1,389
May-22	1,498
Apr-22	1,638
Mar-22	1,924
Feb-22	1,991
Jan-22	2,349
Dec-21	2,420
Nov-21	1,813
Oct-21	1,773
Sep-21	1,464
Aug-21	1,396
Total	21,079



Beach / Ocean Monitoring Report

ALISO CREEK OCEAN OUTFALL MONITORING REPORT

July 2022

DATE	IRWD LOS ALISOS WRP				EL TORO WRP				SOCWA REGIONAL PLANT				SOCWA COASTAL PLANT				IRWD IDP	IRWD SGU	SCWD ACWRF	ACOO FLOW	Rain Fall
	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	FLOW	FLOW	MGD	inches
	MGD	mg/L	mg/L	ml/L	MGD	mg/L	mg/L	ml/L	MGD	mg/L	mg/L	ml/L	MGD	mg/L	mg/L	ml/L	MGD	MGD	MGD	MGD	
07/01/22	No Flow				1.233	9.6	3.4	<0.1	2.790	12.6	8.0	0.1	1.490	4.0	4.0	0.1	0.626	0.491	0.154	6.784	0.00
07/02/22	No Flow				0.794	7.4	2.8	<0.1	0.64	6.4	3.0	0.1	0.662	7.2	5.0	<0.1	0.778	0.466	0.143	3.483	0.00
07/03/22	No Flow				0.828	9.6		<0.1	0.670	4.4	3.0	<0.1	1.784	5.2	6.0	<0.1	0.778	0.452	0.145	4.657	0.00
07/04/22	No Flow				2.107	22.0		<0.1	0.400	4.0	3.0	<0.1	2.137	2.6	4.0	<0.1	0.736	0.450	0.141	5.971	0.00
07/05/22	No Flow				1.911	17.0	5.8	<0.1	0.430	5.2	8.0	0.1	1.242	0.8	3.0	0.1	0.778	0.450	0.050	4.861	0.00
07/06/22	No Flow				1.029	11.7	3.7	<0.1	0.750	5.4	4.0	0.1	1.304	4.3	4.0	<0.1	0.778	0.450	0.123	4.434	0.00
07/07/22	No Flow				1.131	12.3	3.6	<0.1	0.440	4.0	3.0	<0.1	1.450	1.6	3.0	<0.1	0.779	0.470	0.144	4.414	0.00
07/08/22	No Flow				1.141	14.6	4.4	<0.1	0.480	5.7	6.0	0.1	1.187	1.9	2.0	0.1	0.778	0.470	0.165	4.221	0.02
07/09/22	No Flow				0.657	12.6	4.0	<0.1	0.410	2.5	2.0	0.1	1.555	4.3	3.0	0.1	0.778	0.469	0.156	4.025	0.00
07/10/22	No Flow				0.784	13.2	4.5	0.1	0.370	3.4	3.0	<0.1	1.616	3.8	4.0	<0.1	0.778	0.459	0.108	4.115	0.00
07/11/22	No Flow				1.853	11.0	4.1	0.1	0.550	3.2	1.0	<0.1	1.795	2.1	4.0	<0.1	0.778	0.449	0.168	5.593	0.00
07/12/22	No Flow				0.830	9.8	2.6	<0.1	0.410	4.0	2.0	<0.1	1.116	2.8	3.0	<0.1	0.778	0.449	0.134	3.717	0.00
07/13/22	No Flow				1.008	12.9	3.7	<0.1	0.380	5.1	2.0	<0.1	1.277	6.9	7.0	0.2	0.627	0.449	0.156	3.897	0.00
07/14/22	No Flow				0.858	6.6	2.4	<0.1	0.370	7.4	3.0	<0.1	1.297	3.5	3.0	0.1	0.777	0.447	0.135	3.884	0.00
07/15/22	No Flow				0.919	7.5	2.7	<0.1	0.390	3.7	2.0	0.1	1.610	2.9	4.0	0.1	0.771	0.466	0.171	4.327	0.00
07/16/22	No Flow				1.154	8.6	3.4	<0.1	0.360	4.1	2.0	0.1	1.349	3.3	3.0	0.1	0.755	0.454	0.165	4.237	0.00
07/17/22	No Flow				0.730	10.4		0.1	0.360	6.5	3.0	0.1	1.849	6.0	5.0	0.1	0.778	0.447	0.142	4.306	0.00
07/18/22	No Flow				1.586	8.6		0.1	0.790	7.0	4.0	<0.1	1.978	1.6	3.0	<0.1	0.778	0.446	0.128	5.706	0.00
07/19/22	No Flow				0.883	14.8	5.0	0.1	0.400	3.9	2.0	<0.1	1.631	1.7	3.0	<0.1	0.778	0.446	0.148	4.286	0.00
07/20/22	No Flow				1.046	9.8	2.9	<0.1	0.510	5.3	2.0	0.1	1.739	0.9	3.0	<0.1	0.778	0.429	0.157	4.659	0.00
07/21/22	No Flow				1.558	10.6	4.2	<0.1	0.580	4.5	3.0	0.1	2.194	2.3	3.0	<0.1	0.778	0.426	0.145	5.681	0.00
07/22/22	No Flow				0.922	13.6	5.0	0.1	0.490	3.9	2.0	<0.1	2.078	1.3	3.0	<0.1	0.778	0.420	0.162	4.850	0.00
07/23/22	No Flow				0.785	10.8	4.5	<0.1	0.380	3.1	2.0	0.1	1.930	6.7	3.0	0.1	0.778	0.473	0.151	4.497	0.00
07/24/22	No Flow				2.534	10.8		0.1	0.380	3.3	2.0	0.1	2.404	5.9	3.0	0.2	0.778	0.474	0.113	6.683	0.00
07/25/22	No Flow				1.907	9.4		0.1	0.630	6.9	4.0	<0.1	2.535	1.1	3.0	0.1	0.778	0.456	0.118	6.424	0.00
07/26/22	No Flow				0.880	10.2	3.0	<0.1	0.410	3.9	2.0	<0.1	1.871	1.2	3.0	<0.1	0.778	0.451	0.117	4.507	0.00
07/27/22	No Flow				1.025	10.0	3.1	<0.1	0.430	5.3	2.0	<0.1	1.863	1.2	2.0	<0.1	0.778	0.446	0.110	4.652	0.00
07/28/22	No Flow				1.849	12.4	3.7	<0.1	0.360	6.7	3.0	0.1	1.484	6.6	4.0	<0.1	0.656	0.464	0.160	4.973	0.00
07/29/22	No Flow				1.021	12.0	4.7	0.1	0.390	2.9	2.0	0.1	2.094	8.5	5.0	0.2	0.778	0.467	0.158	4.908	0.00
07/30/22	No Flow				1.719	8.6	3.7	0.1	0.370	3.1	2.0		2.063	7.9	5.0		0.778	0.457	0.174	5.561	0.00
07/31/22	No Flow				1.984	19.0		<0.1	0.750	4.7	6.0	0.1	2.090	5.3	5.0	0.2	0.777	0.445	0.107	6.153	0.05
AVG	No Flow				1.247	11.5	3.8	<0.1	0.551	4.9	3.1	<0.1	1.699	3.7	3.7	<0.1	0.762	0.454	0.140	4.854	
TOTAL	No Flow				38.67				17.07				52.67				23.62	14.09	4.348	150.47	0.07

Unified Beach Monitoring

#1

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: July 2022
 REPORT DUE: September 1 2022
 SAMPLE SOURCE: Surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: Low Tide 0800

Weather: Partly Cloudy

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	07/05/22	0800	10	10	<2	None	None	None	None	Green	59	Clear		
S4	07/05/22	0940	<10	<10	<2	None	None	None	None	Green	59	Clear		
S5	07/05/22	0930	<10	<10	<2	None	None	None	None	Green	59	Clear		
S6	07/05/22	0900	<10	<10	<2	None	None	None	None	Green	59	Clear		
WEST	07/05/22	0854	<10	<10	<2	None	None	None	None	Green	59	Clear		
S7	07/05/22	0847	<10	<10	<2	None	None	None	None	Green	59	Clear		
S8	07/05/22	0837	<10	<10	<2	None	None	None	None	Green	59	Clear		
S9	07/05/22	0831	<10	<10	<2	None	None	None	None	Green	59	Clear		
ACM1	07/05/22	0825	<10	<10	<2	None	None	None	None	Green	59	Clear		
S10	07/05/22	0823	<10	<10	<2	None	None	None	None	Green	59	Clear		
S11	07/05/22	0817	30	60	<2	None	None	None	None	Green	59	Clear		
S12	07/05/22	0810	<10	<10	<2	None	None	None	None	Green	59	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: July 2022
 REPORT DUE: September 1, 2022
 SAMPLE SOURCE: Receiving water surf zone
 TYPE OF SAMPLE: Grab

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

Tidal Condition: High Tide 1016

Weather: Overcast

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	07/13/22	0730	<10	<10	22	None	None	None	None	Green		Slightly Turbid		
S4	07/13/22	0915	<10	<10	4	None	None	None	None	Green		Clear		
S5	07/13/22	0910	20	<10	2	None	None	None	None	Green		Clear		
S6	07/13/22	0855	<10	<10	<2	None	None	None	None	Green		Clear		
WEST	07/13/22	0850	<10	<10	<2	None	None	None	None	Green		Clear		
S7	07/13/22	0845	<10	10	<2	None	None	None	None	Green		Clear		
S8	07/13/22	0833	<10	<10	<2	None	None	None	None	Green		Clear		
S9	07/13/22	0828	<10	<10	4	None	None	None	None	Green	68	Clear		
ACM1	07/13/22	0815	<10	<10	<2	None	None	None	None	Green		Clear		
S10	07/13/22	0810	<10	<10	<2	None	None	None	None	Green		Clear		
S11	07/13/22	0805	<10	<10	4	None	None	None	None	Green		Clear		
S12	07/13/22	0800	4	<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 100m

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: July 2022
 REPORT DUE: September 1, 2022
 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 0958

Weather: Overcast

COMMENTS:

STA#	DATE	TIME	Total	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform CFU/100ml SM9222B	Coliform CFU/100ml SM9222D	coccus CFU/100ml EPA 1600	Onshore	Offshore							
S3	07/21/22	0735	10	<10	2	None	None	None	None	Green	70	Clear		
S4	07/21/22	0910	10	<10	<2	None	None	None	None	Green		Clear		
S5	07/21/22	0905	<10	<10	<2	None	None	None	None	Green		Clear		
S6	07/21/22	0855	<10	<10	<2	None	None	None	None	Green		Clear		
WEST	07/21/22	0850	<10	<10	<2	None	None	None	None	Green		Clear		
S7	07/21/22	0845	30	50	<2	None	None	None	None	Green		Clear		
S8	07/21/22	0835	<10	<10	<2	None	None	None	None	Green		Clear		
S9	07/21/22	0830	<10	<10	<2	None	None	None	None	Green		Clear		
ACM1	07/21/22	0825	<10	10	<2	None	None	None	None	Green		Clear		
S10	07/21/22	0810	<10	<10	<2	None	None	None	None	Green		Clear		
S11	07/21/22	0805	<10	<10	10	None	None	None	None	Green		Clear		
S12	07/21/22	0755	20	20	6	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: July 2022
 REPORT DUE: September 1, 2022
 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 0705

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	07/28/22	0825	<10	<10	<2	None	None	None	None	Blue	64	Clear		
S4	07/28/22	1015	<10	<10	<2	None	None	None	None	Blue		Clear		
S5	07/28/22	1010	10	10	8	None	None	None	None	Blue		Clear		
S6	07/28/22	0955	<10	<10	2	None	None	None	None	Blue		Clear		
WEST	07/28/22	0950	20	<10	<2	None	None	None	None	Blue		Clear		
S7	07/28/22	0945	10	10	2	None	None	None	None	Blue		Clear		
S8	07/28/22	0925	<10	10	<2	None	None	None	None	Blue		Clear		
S9	07/28/22	0920	<10	<10	<2	None	None	None	None	Blue		Clear		
ACM1	07/28/22	0915	<10	<10	<2	None	None	None	None	Blue		Clear		
S10	07/28/22	0900	<10	<10	<2	None	None	None	None	Blue		Clear		
S11	07/28/22	0850	<10	<10	<2	None	None	None	None	Blue		Clear		
S12	07/28/22	0845	<10	10	<2	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 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

MONITORING REPORT

Off Shore Stations

South Orange County Wastewater Authority

DISCHARGE: Aliso Creek Ocean Outfall

REPORT FOR: July 2022

REPORT DUE: September 1, 2022

SAMPLE SOURCE: Receiving water, nearshore and offshore

EXACT SAMPLE POINTS: As specified in permit

SAMPLES COLLECTED BY: Seaventures/SOCWA staff

SAMPLES ANALYZED BY: SOCWA Lab

REPORT FREQUENCY: Monthly

SAMPLING FREQUENCY: Monthly

TYPE OF SAMPLE: Grab

Comments: High Tide 503

Sta No.	Sample Depth	Sample Date	Total Coliform	Fecal Coliform	Enterococcus	Sample Time	Oil & Grease	Sewage Debris	0 - None 1 - Mild 2 - Moderate 3 - Severe
			CFU/100ml SM9222B	CFU/100ml SM9222D	CFU/100ml EPA 1600				
A-1	Surface	07/06/22	<2	<2	<2	0805	0	0	
A-1	Mid depth	07/06/22	<10	<10	<10				
A-2	Surface	07/06/22	<2	<2	<2	0750	0	0	
A-2	Mid depth	07/06/22	<10	<10	<10				
A-3	Surface	07/06/22	<2	<2	<2	0755	0	0	
A-3	Mid depth	07/06/22	<10	<10	<10				
A-4	Surface	07/06/22	<2	<2	<2	0810	0	0	
A-4	Mid depth	07/06/22	<10	<10	<10				
A-5	Surface	07/06/22	<2	<2	<2	0800	0	0	
A-5	Mid depth	07/06/22	<10	<10	<10				
B-1	Surface	07/06/22	2	<2	<2	0740	0	0	
B-1	Mid depth	07/06/22	<10	<10	<10				
B-2	Surface	07/06/22	<2	<2	<2	0820	0	0	
B-2	Mid depth	07/06/22	<10	<10	<10				
N1	Surface	07/06/22	<2	<2	<2	0835	0	0	
N2	Surface	07/06/22	2	<2	<2	0834	0	0	
N3	Surface	07/06/22	<2	<2	<2	0832	0	0	
N4	Surface	07/06/22	<5	<5	<5	0830	0	0	
N5	Surface	07/06/22	<2	<2	<2	0829	0	0	
N6	Surface	07/06/22	<2	<2	2	0827	0	0	
N7	Surface	07/06/22	<2	<2	2	0825	0	0	

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

**Compliance Summary Report
Aliso Creek Ocean Outfall 2022**

ACOO Permit Order No. R9-2022-0006							
Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
IRWD - Los Alisos	5/4/2022	cBOD	Deficient Monitoring	mgl	Daily Monitoring	Weekly	\$3000
IRWD - Los Alisos	5/4/2022	Total Suspended Solids	Deficient Monitoring	mgl	Daily Monitoring	Weekly	\$3000
ETWD - WRP	5/18/2022	Settleable Solids	Category 1 Pollutant	m/L	3.00	7.00	\$3,000
SCWD - ACWHP	5/31/2022	Total Suspended Solids	Deficient Monitoring	mgl	Daily Monitoring	Monthly	\$3000
SCWD - ACWHP	5/31/2022	pH	Deficient Monitoring	SU	Daily Monitoring	Monthly	\$3000

**SOCWA and MEMBER AGENCY FACILITIES
ACOO Spill / Overflow Report Log - 2022
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

July 2022

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
07/01/22	7.960	8.7	9.3	0.1	1.603	7.2	8.0	<0.1	0.059	1.2	3.0	<0.1	0.028	8.8	6.8	<0.1	0.360	0.179	9.630	0.00
07/02/22	8.040	10.8	8.4		1.260		7.0		0.000				0.037				0.360	0.182	9.700	0.00
07/03/22	7.930	9.5	9.6	<0.1	1.421				0.000				0.043				0.360	0.178	9.670	0.00
07/04/22	7.830	8.4	8.9	<0.1	2.219	6.3	8.0	<0.1	0.000				0.036	8.6	7.0	<0.1	0.360	0.179	10.370	0.00
07/05/22	7.910	10.3	7.9	0.1	2.073	6.4	8.0	<0.1	0.000				0.035	9.6	5.5	<0.1	0.360	0.183	10.500	0.00
07/06/22	7.960	7.3	11.2	<0.1	1.462	6.8	7.0	<0.1	0.116	0.8	2.3	0.3	0.043	9.6	7.8	<0.1	0.360	0.179	10.080	0.00
07/07/22	7.830	6.7	19.4	<0.1	1.716	6.8	6.0	<0.1	0.000				0.047	9.2	8.2	<0.1	0.360	0.179	10.280	0.00
07/08/22	7.740	7.2	9.3	0.3	1.673	7.6	6.0	<0.1	0.000				0.039	8.8	7.0	<0.1	0.340	0.183	9.700	0.02
07/09/22	7.820	6.5	7.0	0.1	2.101		8.0		0.000				0.043				0.330	0.178	10.200	0.00
07/10/22	7.850	7.3	8.4	<0.1	1.736				0.000				0.072	7.4	7.0	<0.1	0.200	0.181	10.260	0.00
07/11/22	7.650	10.7	8.1	<0.1	2.797	7.5	6.0	<0.1	0.000				0.109	7.2	5.5	<0.1	0.000	0.180	11.000	0.00
07/12/22	7.740	7.0	7.1	<0.1	2.001	7.4	10.0	<0.1	0.000				0.039	7.0	6.2	<0.1	0.000	0.178	10.580	0.00
07/13/22	7.550	6.1	5.0	<0.1	1.466	7.0	6.0	<0.1	0.001	0.5	2.9	<0.1	0.156	6.8	6.0	<0.1	0.000	0.179	9.200	0.00
07/14/22	7.720	5.9	6.6	0.1	1.063	5.5	5.0	<0.1	0.000				0.198	11.0	9.4	<0.1	0.000	0.187	10.170	0.00
07/15/22	7.730	7.1	6.6	0.1	1.487	5.4	6.0	<0.1	0.000				0.053	8.6	7.8	<0.1	0.380	0.174	9.800	0.00
07/16/22	7.780	7.8	7.9	0.1	1.322		7.0		0.012	2.5	3.0	<0.1	0.040				0.380	0.179	9.880	0.00
07/17/22	3.770	8.6	6.2	0.1	1.519	7.4	7.0	<0.1	0.026	1.9	2.8	<0.1	0.042	6.6	6.0	<0.1	0.380	0.183	10.090	0.00
07/18/22	5.290	7.6	9.6	<0.1	1.463	4.8	8.0	<0.1	0.004	2.9	3.5	<0.1	0.027	11.0	7.0	<0.1	0.370	0.178	10.050	0.00
07/19/22	7.170	7.3	4.6	<0.1	1.655	5.1	8.0	<0.1	0.037	2.0	3.3	<0.1	0.033	10.6	8.4	<0.1	0.370	0.179	10.380	0.00
07/20/22	7.820	6.4	4.6	<0.1	1.965	4.8	5.0	<0.1	0.057	2.4	3.6	<0.1	0.029	9.4	8.0	<0.1	0.370	0.183	10.330	0.00
07/21/22	7.880	5.9	5.6	<0.1	1.387	5.3	6.0	<0.1	0.003	2.3	2.8	0.1	0.030	9.0	7.6	<0.1	0.360	0.170	9.720	0.00
07/22/22	7.710	9.6	10.5	<0.1	1.451	5.6	5.0	<0.1	0.027	2.8	3.5	<0.1	0.045	8.6	7.0	<0.1	0.360	0.193	9.600	0.00
07/23/22	7.470	5.0	6.9	0.1	1.546		5.0		0.009	2.2	1.9	<0.1	0.045	7.8	6.6	<0.1	0.360	0.178	9.500	0.00
07/24/22	7.520	5.1	7.9	0.1	1.377	4.9	5.0	<0.1	0.008	2.8	2.6	<0.1	0.036				0.360	0.178	9.590	0.00
07/25/22	7.520	4.7	5.9	<0.1	1.592	3.7	8.0	<0.1	0.000				0.108	12.6	7.0	<0.1	0.360	0.178	9.780	0.00
07/26/22	7.490	4.0	4.9	<0.1	1.717	3.6	7.0	<0.1	0.000				0.089	10.2	8.4	<0.1	0.360	0.183	10.240	0.00
07/27/22	7.280	3.9	5.9	<0.1	1.422	3.1	3.0	<0.1	0.011	1.1	1.9	<0.1	0.126	10.6	8.8	<0.1	0.360	0.178	9.660	0.00
07/28/22	7.000	6.9	5.9	0.1	1.743	3.2	4.0	<0.1	0.000				0.167	11.2	9.3	<0.1	0.370	0.178	10.060	0.00
07/29/22	6.850	5.4	6.3	0.1	1.703	2.8	6.0	<0.1	0.000				0.952	10.2	7.8	<0.1	0.370	0.183	9.630	0.00
07/30/22	6.950	5.7	10.4		1.884	5.5	5.0	<0.1	0.000				1.992				0.370	0.179	10.420	0.00
07/31/22	7.140	5.8	12.0	0.2	1.570				0.001	6.0	5.5	<0.1	1.974				0.370	0.178	11.710	0.05
AVG	7.416	7.1	8.0	<0.1	1.658	5.6	6.4	<0.1	0.012	2.2	3.0	<0.1	0.217	9.2	7.3	<0.1	0.311	0.180	10.057	
TOTAL	229.900				51.394				0.371				6.713				9.640	5.577	311.780	0.07

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: July 2022
 REPORT DUE: September 1, 2022
 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 0644

Weather: Partly Cloudy

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	07/03/22	0843	<20	<20	<2	None	None	None	None	Green	63	Clear		
S1	07/03/22	0920	<20	<20	<2	None	None	None	None	Green	63	Clear		
S2	07/03/22	0836	<200	20	<2	None	None	None	None	Green	63	Clear		
DSB5	07/03/22	0824	<20	20	2	None	None	None	None	Brown	63	Clear		
S3	07/03/22	0924	<20	<20	2	None	None	None	None	Green	63	Clear		
DSB4	07/03/22	0927	<20	<20	<2	None	None	None	None	Green	63	Clear		
S5	07/03/22	0932	<20	<20	<2	None	None	None	None	Green	63	Clear		
DSB1	07/03/22	0937	<20	<20	2	None	None	None	None	Green	63	Clear		
SJC1	07/03/22	0840	<100	<100	<10	None	None	None	None	Green	63	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: July 2022
 REPORT DUE: September 1, 2022
 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 0929

Weather: Drizzle

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	07/12/22	0820	<20	<20	<2	None	None	None	None	Green		Clear		
S1	07/12/22	0830	<200	<20	<2	None	None	None	None	Green		Clear		
S2	07/12/22	0800	<20	<20	<10	None	None	None	None	Green		Slightly Turbid		
DSB5	07/12/22	0750	<200	<160	100	None	None	None	None	Green		Slightly Turbid		
S3	07/12/22	0835	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB4	07/12/22	0840	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S5	07/12/22	0848	<20	<20	<2	None	None	None	None	Green		Clear		
DSB1	07/12/22	0855	<20	<20	<2	None	None	None	None	Green	65	Clear		
SJC1	07/12/22	0805	<100	<100	<10	None	None	None	None	Green		Clear		

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

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: July 2022
 REPORT DUE: September 1, 2022
 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 0826

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	07/19/22	0950	<20	20	<2	None	None	None	None	Green		Slightly Turbid		
S1	07/19/22	1005	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S2	07/19/22	0940	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB5	07/19/22	0930	<20	<20	2	None	None	None	None	Green	72	Slightly Turbid		
S3	07/19/22	1010	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB4	07/19/22	1013	<20	<20	<2	None	None	None	None	Green	70	Slightly Turbid		
S5	07/19/22	1020	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB1	07/19/22	1030	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
SJC1	07/19/22	0945	<100	<100	<10	None	None	None	None	Green		Slightly Turbid		

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

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: July 2022
 REPORT DUE: September 1, 2022
 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

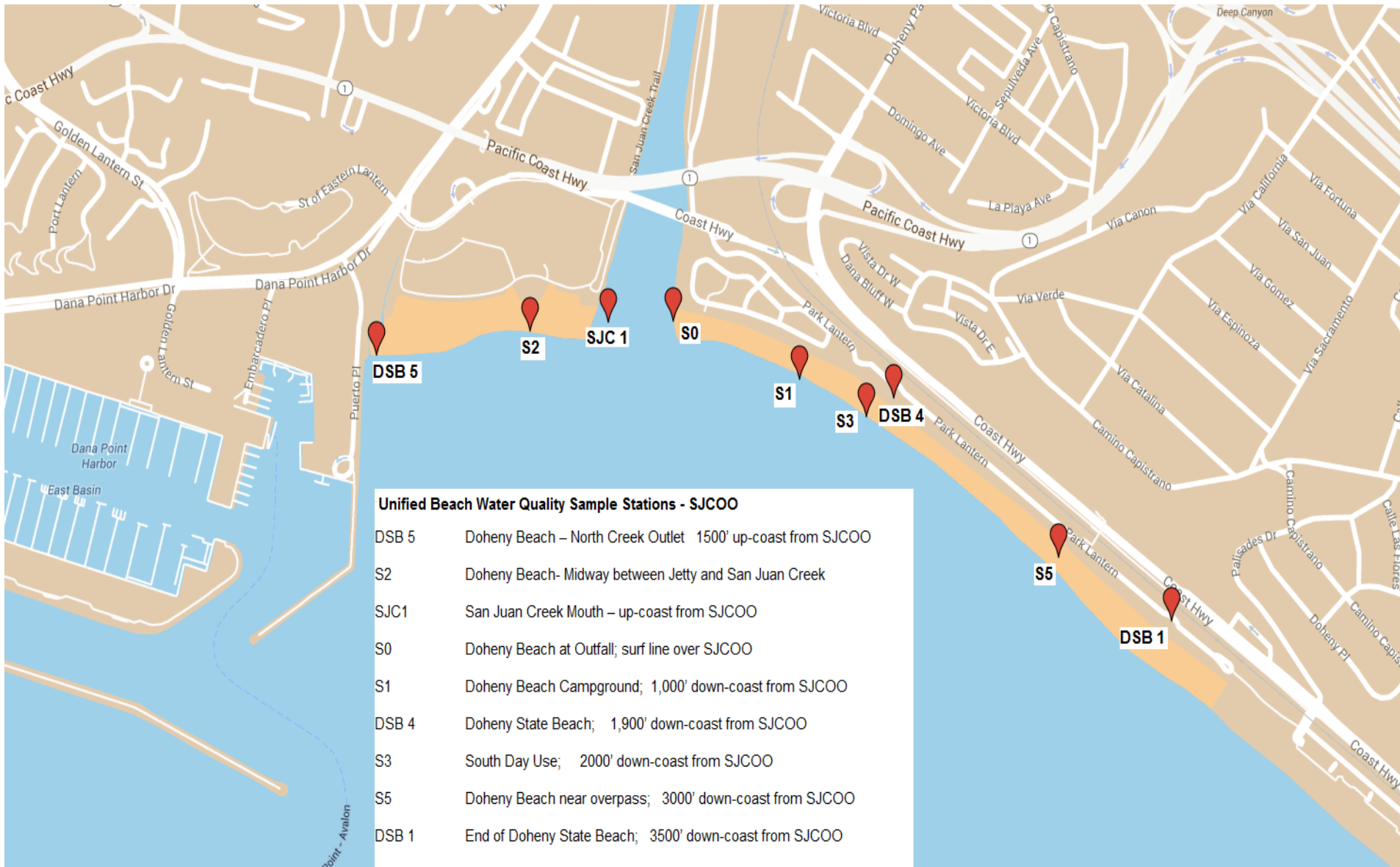
Tidal Condition: Low Tide 1343

Weather: Overcast

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	07/25/22	1330	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S1	07/25/22	1340	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S2	07/25/22	1320	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB5	07/25/22	1315	<20	<20	2	None	None	None	None	Green	66	Slightly Turbid		
S3	07/25/22	1345	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB4	07/25/22	1350	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S5	07/25/22	1355	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
DSB1	07/25/22	1410	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
SJC1	07/25/22	1355	<100	<100	<10	None	None	None	None	Green		Slightly Turbid		

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



San Juan Creek Ocean Outfall

Unified Beach Water Quality Monitoring Stations

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

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

MONITORING REPORT

Offshore

South Orange County Wastewater Authority

DISCHARGE: San Juan Creek Ocean Outfall

REPORT FOR: July 2022

REPORT FREQUENCY: Monthly

REPORT DUE: September 1, 2022

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 0503

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	07/06/22	<2	<2	<2	0930	0	0	0 - None
A-1	Mid depth	07/06/22	560	340	30				1 - Mild
A-2	Surface	07/06/22	<2	<2	<2	0935	0	0	2 - Moderate
A-2	Mid depth	07/06/22	<10	<10	<10				3 - Severe
A-3	Surface	07/06/22	<2	<2	<2	0940	0	0	
A-3	Mid depth	07/06/22	<10	<10	<10				
A-4	Surface	07/06/22	<2	<2	2	0947	0	0	
A-4	Mid depth	07/06/22	<10	<10	<10				
A-5	Surface	07/06/22	<2	2	<2	0943	0	0	
A-5	Mid depth	07/06/22	90	50	40				
B-1	Surface	07/06/22	<2	<2	<2	0920	0	0	
B-1	Mid depth	07/06/22	<10	<10	<10				
B-2	Surface	07/06/22	<2	<2	<2	0955	0	0	
B-2	Mid depth	07/06/22	<10	<10	<10				
N1	Surface	07/06/22	<2	<2	<2	0915	0	0	
N2	Surface	07/06/22	<2	<2	<2	0911	0	0	
N3	Surface	07/06/22	<2	<2	<2	0909	0	0	
N4	Surface	07/06/22	>=2	<2	<2	0904	0	0	
N5	Surface	07/06/22	2	<2	<2	0902	0	0	
N6	Surface	07/06/22	2	<2	<2	0900	0	0	

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

**Compliance Summary Report
San Juan Creek Ocean Outfall 2022**

SJCOO Permit Order No. R9-2012-0012 & R9-2022-0005							
Agency	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Potential Fine
SMWD/CSJC	03/09/2022	Oil and Grease	Weekly Average	mg/L	25.00	57.00	\$3,000
SMWD/CSJC	03/09/2022	Oil and Grease	Monthly Average	mg/L	40.00	57.00	\$3,000
CSC	03/18/2022	pH	Daily	SU	Daily	Not Reported	\$3,000
CSC	03/18/2022	Settleable Solids	Daily	ml/L	Daily	Not Reported	\$3,000
MNWD	3/30/2022	Settleable Solids	Daily	ml/L	3.00	3.60	\$3,000
MNWD	4/8/2022	Settleable Solids	Daily	ml/L	3.00	5.00	\$3,000
SCWD - GWRF	5/31/2022	Total Suspended Solids	Deficient Monitoring	mgl	Daily	Monthly	\$3000
SCWD - GWRF	5/31/2022	pH	Deficient Monitoring	SU	Daily	Monthly	\$3000

**SOCWA and MEMBER AGENCY FACILITIES
 SJCOO Spill / Overflow Report Log - 2022
 Order No. R9-2022-0005 ~ NPDES Permit No. CA0107417**

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

Waste Discharge Requirement Order 97 - 52

Agency - Facility	Violation Date	Constituent	Effluent Limit Violation	Units	Permit Limit	Reported Value	Remarks
SOCWA - RTP	1/2/2022	TDS	12-Month	mg/L	1000	1208	
SOCWA - RTP	1/2/2022	TDS	Daily Maximum	mg/L	1100	1310	
SOCWA - RTP	1/2/2022	Manganese	12-Month	mg/L	0.05	0.130	
TCWD - RRWRP	1/4/2022	TDS	12 month	mg/L	1000	1031	
TCWD - RRWRP	1/31/2022	Nitrate	Quarterly	mg/L	45	19.60	
SOCWA - RTP	2/1/2022	TDS	12-Month	mg/L	1000	1214	
SOCWA - RTP	2/1/2022	TDS	Daily Maximum	mg/L	1100	1200	
SOCWA - RTP	2/1/2022	Manganese	12-Month	mg/L	0.05	0.101	
SOCWA - RTP	2/1/2022	Iron	12-Month	mg/L	0.3	0.308	
SOCWA - CTP	2/1/2022	TDS	Daily Maximum	mg/L	1100	1320	
TCWD - RRWRP	2/1/2022	TDS	12 month	mg/L	1000	1035	
SOCWA - RTP	3/1/2022	TDS	12-Month	mg/L	1000	1218	
SOCWA - RTP	3/1/2022	TDS	Daily Maximum	mg/L	1100	1200	
SOCWA - RTP	3/1/2022	Manganese	12-Month	mg/L	0.05	0.101	
SOCWA - RTP	3/1/2022	Iron	12-Month	mg/L	0.3	0.309	
SOCWA - CTP	3/2/2022	TDS	Daily Maximum	mg/L	1100	1340	
SOCWA - CTP	3/3/2022	Manganese	12-Month	mg/L	0.05	0.808	
TCWD - RRWRP	3/1/2022	TDS	12 month	mg/L	1000	1054	
MNWD - 3A	3/16/2022	TDS	12-Month	mg/L	1000	1136	
MNWD - 3A	3/16/2022	TDS	Daily Maximum	mg/L	1100	1220	
SOCWA - RTP	4/7/2022	TDS	12-Month	mg/L	1000	1226	
SOCWA - RTP	4/7/2022	TDS	Daily Maximum	mg/L	1100	1260	
SOCWA - RTP	4/7/2022	Manganese	12-Month	mg/L	0.05	0.102	
SOCWA - RTP	4/7/2022	Iron	12-Month	mg/L	0.3	0.306	
SOCWA - CTP	4/7/2022	Manganese	12-Month	mg/L	0.05	0.114	
TCWD - RRWRP	4/5/2022	TDS	12 month	mg/L	1000	1052	
SOCWA - RTP	5/5/2022	TDS	12-Month	mg/L	1000	1230	
SOCWA - RTP	5/5/2022	TDS	Daily Maximum	mg/L	1100	1310	
SOCWA - RTP	5/5/2022	Manganese	12-Month	mg/L	0.05	0.102	
SOCWA - CTP	5/5/2022	Manganese	12-Month	mg/L	0.05	0.121	
TCWD - RRWRP	5/3/2022	TDS	12 month	mg/L	1000	1054	
MNWD - 3A	5/9/2022	TDS	12-Month	mg/L	1000	1147	
MNWD - 3A	5/9/2022	TDS	Daily Maximum	mg/L	1100	1190	
MNWD - 3A	5/9/2022	Manganese	12-Month	mg/L	0.05	0.07	
SOCWA - RTP	6/2/2022	TDS	12-Month	mg/L	1000	1235	
SOCWA - RTP	6/2/2022	TDS	Daily Maximum	mg/L	1100	1270	
SOCWA - RTP	6/2/2022	Manganese	12-Month	mg/L	0.05	0.120	
SOCWA - CTP	6/2/2022	Manganese	12-Month	mg/L	0.05	0.120	
TCWD - RRWRP	6/7/2022	TDS	12 month	mg/L	1000	1070	
SOCWA - RTP	7/14/2022	TDS	12-Month	mg/L	1000	1244	
SOCWA - RTP	7/14/2022	TDS	Daily Maximum	mg/L	1100	1290	
SOCWA - RTP	7/14/2022	Manganese	12-Month	mg/L	0.05	0.099	
SOCWA - CTP	7/14/2022	Manganese	12-Month	mg/L	0.05	0.116	
MNWD - 3A	7/5/2022	TDS	12-Month	mg/L	1000	1141	
MNWD - 3A	7/5/2022	Manganese	12-Month	mg/L	0.05	0.07	
TCWD - RRWRP	7/7/2022	TDS	12 month	mg/L	1000	1070	

Recycled Water Report

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending: Jul 31, 2022

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	1,070	934	878	961	1,141	1,244	1,056
Chloride	mg/L	375	245	200	203	293	223	261	243
Sulfate	mg/L	400	383	265	233	230	373	359	300
Sodium	mg/L	None	69	165	160	217		186	178
Alkalinity	mg/L	None	-	-	-	-		274	211
Adjusted SAR	Ratio	None	5.15	4.73	4.94	6.19	4.13	4.38	4.53
Iron	mg/L	0.3	0.010	0.021	0.123	0.012	0.16	0.288	0.141
Manganese	mg/L	0.05	0.003	0.022	0.040	0.009	0.07	0.099	0.116
MBAS	mg/L	0.5	ND	0.21	0.16	0.27	<0.03	<0.06	<0.06
Boron	mg/L	0.75	0.355	0.395	0.377	0.480	0.37	0.352	0.38
Fluoride	mg/L	None	0.68	0.700	0.55	0.68	0.75	0.76	0.81
Total Organic Carbon	mg/L	None	4.5	12.7	12.4	9.1	1.6	10.4	7.6

*** 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)
2022

Agency	Facility or Region	Jan '22	Feb '22	Mar '22	Apr '22	May '22	Jun '22	Jul '22	Aug '22	Sep '22	Oct '22	Nov '22	Dec '22	Annual Totals
CSJC 1	3-A Plant/MNWD	0.002	0.000	0.000	0.000	0.000	0.000	0.000						0.002
CSJC 2	Chiquita/SMWD	16.66	30.010	39.560	37.940	43.700	51.860	44.090						263.820
CSJC 3	Non-Domestic Wel	1.00	7.708	18.530	22.222	29.982	32.138	46.460						158.044
ETWD	Region 8	37.87	112.254	138.103	155.436	187.776	218.361	199.478						1,049.274
IRWD														
4	IRWD - 8	44.49	101.761	129.518	100.542	145.875	186.350	174.653						883.192
4	IRWD - 9	22.36	50.450	63.884	57.658	86.173	105.340	93.496						479.363
SCWD	SOCWA CTP	9.152	63.518	76.573	96.780	125.072	139.324	131.162						641.580
MNWD	JRP	299.83	439.710	484.915	529.659	565.105	576.368	596.193						3,491.781
	3-A Plant	0.00	0.000	37.397	0.000	141.430	142.553	140.629						462.009
5	CTP	-17.36	4.332	4.621	4.332	-0.870	6.875	8.785						10.712
SMWD	Oso Creek	140.68	93.644											234.322
	Chiquita	489.98	436.028	486.296	458.983	481.815	461.070	472.148						3,286.318
	Nichols	1.52	1.614	2.157	1.642	1.602	1.774	1.995						12.303
TCWD	RRWRP	49.52	42.363	48.188	44.441	46.171	42.888	45.950						319.520
TOTALS		1,095.7	1,383.4	1,529.7	1,509.6	1,853.8	1,964.9	1,955.0						11,292.241

- 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

3.K.

Legal Counsel Review: No

Meeting Date: September 1, 2022

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Katie Greenwood, Source Control Manager

SUBJECT: Monthly Pretreatment Report –July and August 2022
San Juan Creek Ocean Outfall
NPDES Permit #CA0107417 Order #R9-2012-0012
Aliso Creek Ocean Outfall
NPDES Permit #CA0107611 Order #R9-2012-0013

Summary of Program Activities

Staff continues to utilize the CA Manufacturers Directory, submitted will serve notices, and business licensing data to identify industrial users (IUs) and update each member agency (MA) industrial waste survey (IWS) spreadsheet. Additionally, Dental Users continue to submit One-Time Compliance Reports and Staff is noting as received. Please see “Summary of IWS Activities” table below.

In compliance with the recently issued NPDES Permits for the Aliso Creek Ocean Outfall (ACOO-R9-2022-0006) and San Juan Creek Ocean Outfall (SJCOO-R9-2022-0005), SOCWA is in process of performing an evaluation of its local limits to ensure they are still protective of treatment plant processes. Staff is calculating and comparing MAHL loadings from 2019-2021 against the original or re-calculated MAHL loadings for each pollutant at all nine treatment plants. SOCWA may be reaching out to MA Staff to perform additional influent or effluent sampling if needed. The evaluation is due to State Staff by October 28, 2022. A copy of the final evaluation report will be distributed to MA Staff upon submittal.

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:

ETWD – NIWD Form No. ETWD-1-001 for a Shell Gas Station Carwash – Staff assisted in the drafting of a Non-Industrial Wastewater Discharge (NIWD) Form for a new carwash located at 24202 Moulton Parkway. The car wash requires installation of a new clarifier. Once ETWD Staff approves the design, SOCWA will issue the NIWD Form with required BMPs.

CSC/SMWD – Prima Deshecha Landfill (PDL) – On February 14, 2022, SOCWA received a revised WD Permit Application submitted on behalf of Orange County Waste & Recycling (OCWR) for proposed discharge from a treatment system for landfill gas condensate stream

produced at PDL. The revised submittal was in response to SOCWA's reply to the initial WD Permit Application and request for additional information sent on October 22, 2021. On May 5, 2022, Staff toured the pilot study facility and discussed the experimental design related to the PFAS treatment train configuration. On July 14, 2022, SOCWA received a revised submittal with PFAS treatment data related to the pilot study. Staff met virtually on August 4, 2022, to discuss the pilot study results. SOCWA Staff voiced concerns with uncertainty surrounding future PFAS regulations but agreed to bring a final project design for review with the SOCWA Engineering Committee upon submittal by the consultant.

MNWD – WD Permit No. MNWD-NS1-001 for Glaukos – On April 25, 2022, SOCWA received a WD Permit Application for a second and new facility site for Glaukos, located at 26600 Aliso Viejo Pkwy, Aliso Viejo, CA 92656. Staff drafted and issued a non-significant categorical industrial user (NSCIU) WD Permit on August 19, 2022.

SCWD – NSW Permit No. SCWD-N4-010 for Three Arch Bay – Staff is working with SCWD Staff to modify the NSW Permit to add three new dry weather diversion connection points. SCWD is presently drafting an Amendment to the existing Agreement between SCWD and TAB.

SCWD - Burnham-Ward Properties LLC - The County of Orange - Dana Point Harbor Revitalization Project – On July 26, 2022, Staff received a SWD Permit Application to discharge water encountered during construction activities over a three-year period starting late October 2022. Staff is reviewing the application and is in discussion with SCWD Staff regarding project feasibility and how best SOCWA may accommodate the discharge request.

SOCWA – On August 11, 2022, Staff issued a permit termination letter to the US Alliance Holden Forbes construction site, located at 27762 Forbes Rd., Laguna Niguel, CA 92677, SWD Permit # SOCWA-4-004-09-23. The dewatering stage of the project has concluded and Staff verified that all discharge equipment has been removed.

CSC – WD Permit No. CSC -2 009 for Custom Flavors – Staff received a renewal application on August 10, 2022, inspected the site August 15, 2022, and issued a renewal permit on August 19, 2022. The second sampling location 002 was removed since the site only manufactures liquid product. All powder manufacturing is conducted at a separate location.

Trainings and Committee Meetings Attended

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

Inspections

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

CSC – On March 23, 2022, Staff inspected FreshRealm located at 1330 Calle Avanzado. Site is required to implement equipment and procedures for daily measuring of process wastewater pH and flow. Site is also required to obtain at least two spill kits. Due to supply chain issues, the deadline for completion was extended. SOCWA Staff has been in touch with the site and confirmed progress has been made and will re-inspect the site before the end of August.

SMWD – On July 5, 2022, SOCWA Staff conducted the annual inspection of Applied Medical’s rubber manufacturing process (Permit No. SMWD-1-003) and performed sampling at Sampling Locations 001 and 002. Applied Medical Staff also performed its own sampling on July 5th for the August SMR reporting period. SOCWA sampling results showed non-compliance for zinc at both locations. Applied Medical’s sampling results showed non-compliance for zinc only at Location 002. Facility Staff shut down discharge from Location 002 to clean and maintain equipment for at least 30-days prior to re-sampling the wastewater on August 10, 2022 (which showed zinc measuring in compliance) and re-commencing discharge to the sewer. Sampling Location 001 was re-sampled by SOCWA on July 26, 2022, and zinc results were compliant. SOCWA Staff re-sampled Location 002 on August 18, 2022, and results are pending.

CSC – On August 15, 2022, Staff inspected both sites for Custom Flavors Inc., located off Calle Iglesia. Findings conclude that liquid and powder operations are separated by location and address. Sampling Location 002 was removed from WD Permit CSC-2-009 prior to re-issuance of the renewal permit as described above. The inspections yielded no other major findings.

Enforcement

SMWD – On July 31, 2022, Staff issued a WNON to ProTabs Laboratories for late submittal of its semi-annual compliance report. All required BMPs, including clarifier pump-out and hauling records, were implemented during the first half of the year and Staff considers this enforcement action resolved.

On August 16, 2022, Staff issued a NON to Applied Medical’s rubber manufacturing facility (Permit No. SMWD-1-003) for exceedance of zinc at Sampling Location 002 on July 5, 2022. The sampling was associated with facility permit compliance and the August SMR reporting period. Discharge ceased from Location 002 on July 8, 2022, and the facility began hauling all wastewater while the system equipment was cleaned. Site Staff sampled the wastewater on August 10, 2022, and zinc measured in compliance. SOCWA Staff gave permission by email on August 17, 2022, that discharge may re-commence from Location 002. Additionally, SOCWA Staff performed independent compliance sampling at Location 002 on August 18, 2022, and results are pending.

Summary of IWS Activities in SOCWA’s Service Area - YTD through August 17, 2022

MA IUs	Events	Permits	NIWD	BMPs	FSEs	OSes	DSEs	Closed	Enforcement	Total IUs
CLB (S)	10	3	2	5	8	110	15	0	0	128
CSC (S)	33	10	35	18	181	1265	37	0	1	1546
CSJC (S)	44	2	27	59	137	1674	28	5	1	1927
ETWD (M)	41	3	87	0	262	132	50	0	0	487
EBSD (U)	0	1	0	0	0	0	0	0	0	1
IRWD (S)	11	4	51	21	63	914	18	0	2	1071
MNWD (S)	198	5	121	39	637	2112	149	16	0	3063
SMWD (S)	139	6	19	20	212	814	51	12	2	1122
SCWD (S)	13	8	33	7	148	186	15	9	1	397
TCWD (S)	0	0	11	0	7	33	2	0	0	51
SOCWA (S)	0	8	1	0	0	0		0	1	9
Totals	489	50	387	169	1655	7240	365	42	8	9802

(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.K.

Board of Directors Meeting

Meeting Date: September 1, 2022

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACTS: David Baranowski, Director of Engineering

SUBJECT: Capital Improvement Program Status Report (*August 2022*)

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

Below are updates from the month of August 2022 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:

All Plant 1 primary basins have been returned to service with automated controls. Work continues on DAFT No. 1 including installation of concrete pads and the air compressor. Work on Digester No. 2 is progressing with installation of the mixing pump, pinch valves, and associated piping. The contractor is continuing to prepare for the boiler installation, which is the last major piece of equipment to be installed for this project.



Installed Digester 2 Mixing Pump

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Environmental Mitigation for the Coastal Treatment Plant Sludge Force Main Replacement Project

Restoration and improvements around Aliso Creek as required by the construction permits for the replacement of the force main from the Coastal Treatment Plant to the Regional Treatment Plant:

The area disturbed by construction has been reseeded with native species and is being monitored by a team of biologists. Weeds are being removed that could hinder native plant growth. SOCWA staff is coordinating with the CA Coastal Commission to begin the mitigation phase of the project.

Regional Treatment Plant Aeration Diffusers Project

Install new diffusers in all six (6) aeration tanks:

The contractor has completed the installation on five of the six aeration basins. Project completion is scheduled for mid-September.



Diffuser Installation in Final Aeration Basin

SOCWA CIP Workplan

Project Number	Project Name	FY 23 Budget	Status	FY 2022/2023				FY 2023/2024			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PC 2 - J.B. Latham Treatment Plant											
3220/3231/3287 /32211L/ 32212L	Facility Improvements B	\$ 1,674,581	In Construction	C	C						
3221 & 32228L & 3215 & 3252 & 32231L	Electrical System Upgrades	\$ 1,233,042	In Design	P	D	D	B&A	C	C	C	C
3222 & 3234	Centrate Piping Reconstruction	\$ 312,074	In Design	D	B&A	C	C				
3285/32234L/ 32226L/3253	Gate and Piping Rehabilitations	\$ 871,872		P	P	D	D	B&A	C	C	
3216 & 32225S & 32232C & 32235S	Misc. Roofing Rehabilitations	\$ 997,000			P	P	D	C	C	C	C
PC 5 - San Juan Creek Ocean Outfall											
562210	Outfall Port Cleaning	\$ -	Bidding	ENV	ENV						
362210	Surge System Air Valve Replacement	\$ 39,064					C	C			
462110	Land Outfall Facility Condition Assessment	\$ 52,326				CA	CA				
462210	Marine Outfall Core Sample and Condition Assessment	\$ 90,000				CA	CA				
PC 15 - Coastal Treatment Plant											
3541-000	Export Sludge System Construction (2020)	\$ 438,870	Pipe Complete / Mitigation work ongoing	ENV	ENV	ENV	ENV	ENV	ENV	ENV	ENV
35228L	Aeration Blower System Upgrades	\$ 1,250,000	Diffusers purchased. In Design	D	D	B&A	C	C	C		
3544	Aeration System Upgrades	\$ 352,056		P	P	D	D	D	D		
3525-000	Personnel Building Reconstruction	\$ 308,632	In Design	D	D	B&A	C	C			
35220L	Fiber Installation to Alicia Parkway	\$ -	Working with ISP	P	C						
3522AL	Drainage Pump Station	\$ 125,000		P	P	D	D	D	D	B&A	C
35229L /35238L	Odor Control Scrubber/Foul Air System Reconstruction	\$ 405,422		P	P	D	D	B&A	C	C	C
35238L	Influent Flow Meters	\$ 250,000			P	P	C				
35239L	West Secondary Scum Skimmers	\$ 300,000				P	D	B&A	C		

SOCWA CIP Workplan

Project Number	Project Name	FY 23 Budget	Status	FY 2022/2023				FY 2023/2024			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PC 17 - Regional Treatment Plant											
3753	Aeration Diffuser Upgrade (2020)	\$ -	In Construction	C	C						
3722AL/C/S	MCC A, C, G, H Replacement	\$ 1,261,580	In Design	D	D	D					
3758/3759	AWT No.2 Reconstruction (2020)	\$ 2,153,826	In Design	D	D	B&A	C	C	C	C	C
47224C	Consequence of Failure Analysis	\$ 75,000	Project Underway	P	P						
3742	Aeration System Upgrades	\$ 2,351,036			P	D	D	D	D		
37230C	Admin. Bldg. Door and Window Repair	\$ 60,000		D	B&A	C	C				
PC 21 - Effluent Transmission Main											
3107-000 (B/C/D) / 3108-000 (E)	Air Valve Replacement Construction (D) (2021)	\$ 576,736	In Design	D	D	B&A	C	C			
3101/31221B	Trail Bridge Crossing (D)	\$ 156,074	EIR being prepared	D	D	B&A	C	C	C	C	C
PC 24 - Aliso Creek Ocean Outfall											
3480	Internal Seal Replacement	\$ 60,100	In design	P	P	D	D	B&A	C	C	C
34231O	Metering and Sampling	\$ 66,964		P	P						
54221O	Outfall Port Cleaning	\$ -		ENV	ENV						

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

Agenda Item

5.L.

Board of Directors Meeting

Meeting Date: September 1, 2022

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACTS: David Baranowski, Director of Engineering

SUBJECT: Capital Improvement Construction Projects Progress and Change Order Report (*August*) [Project Committee 2, 15 and 17]

Overview

Active Construction Project Updates:

The attached CIP Report shows the financial status of the major construction projects as well any potential and Engineering Committee reviewed change orders. Please note that there are three new change orders for Olsson Construction PC 2 J.B. Latham Package B project totaling \$49,080.37, and three new change orders for JR Filanc for the RTP Aeration Diffuser project totaling \$65,337.02.

Engineering Committee Actions Being Reported to the Project Committee 2 Board:

As authorized by the Project Committee 2 Board on March 10, 2022, the Engineering Committee authorized the General Manager to issue payments within contingency amounts for the following Package B Change Orders with Olsson Construction:

- Change Order 58 for \$26,498.32, including 0 additional day(s)
- Change Order 59 for \$4,290.48, including 0 additional day(s)
- Change Order 60 for \$18,291.57, including 0 additional day(s)

The total of the Change Orders is \$49,080.37, and the revised contract value is \$18,217,037.97.

Recommended Action: The Engineering Committee recommends that the PC-17 Board of Directors approve the following JR Filanc Change Orders:

- Change Order 1 for \$5,748.01, including 0 additional day(s)
- Change Order 2 for \$21,437.52, including 0 additional day(s)
- Change Order 3 for \$38,151.49, including 0 additional day(s)

For a total of \$65,337.02 with no additional days, and a revised contract value of \$1,812,531.02 for the RTP Aeration Diffuser Project.

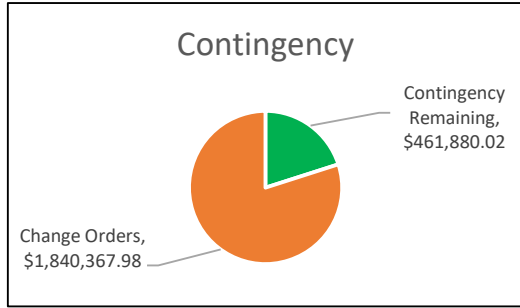
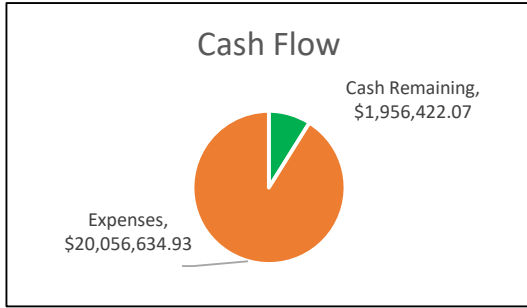
Staff recommends the Board of Directors receive and file the Report as an information item.

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

August 2, 2022



Cash Flow

Collected	\$ 22,013,057.00
Expenses	\$ 20,056,634.93

Project Completion

Schedule	95%
Budget	85%

Contracts

Company	PO No.	Original	Change Orders*	Amendments	Total	Invoiced
Olsson	13497	\$ 17,325,000.00	\$ 892,037.97		\$ 18,217,037.97	\$ 15,821,000.16
Butier	13647	\$ 895,727.00		\$ 1,005,251.00	\$ 1,900,978.00	\$ 1,599,414.50
Carollo	13616	\$ 846,528.00		\$ 616,037.00	\$ 1,462,565.00	\$ 1,195,668.86
TetraTech	13605	\$ 94,000.00		\$ -	\$ 94,000.00	\$ 93,344.70
Ninyo & Moore	14279	\$ 49,399.00		\$ 30,000.00	\$ 79,399.00	\$ 42,227.27
ADS Environmental	16452	\$ 107,200.00	\$ -		\$ 107,200.00	\$ 41,625.00
Hallsten	16578	\$ 251,422.00	\$ 16,715.25		\$ 268,137.25	\$ -
Dudek	17401	\$ 48,360.00		\$ -	\$ 48,360.00	\$ 27,590.00
		\$ 19,617,636.00	\$ 908,753.22	\$ 1,651,288.00	\$ 22,177,677.22	\$ 18,820,870.49

*Values include change orders to be reviewed by Engineering Committee and deductive change orders

Contingency

Area	Project Code	Amount **	Change Orders	Total Remaining	Percent Used
Liquids	3220-000	\$ 719,679.00	\$ 669,491.72	\$ 50,187.28	93.0%
Common	3231-000	\$ 38,120.00	\$ 3,305.76	\$ 34,814.24	8.7%
Solids	3287-000	\$ 1,544,449.00	\$ 1,167,570.50	\$ 376,878.50	75.6%
		\$ 2,302,248.00	\$ 1,840,367.98	\$ 461,880.02	79.9%

** Amount reflects contingency for Construction Contracts only

Summary of New Change Orders

Change Order No	CSJC	MNWD	SCWD	SMWD	\$ Amount
58	\$ 8,153.33	\$ 6,115.00	\$ 7,643.75	\$ 4,586.25	\$ 26,498.32
59	\$ 1,320.15	\$ 990.11	\$ 1,237.64	\$ 742.58	\$ 4,290.48
60	\$ 5,628.18	\$ 4,221.13	\$ 5,276.41	\$ 3,165.85	\$ 18,291.57
Grand Total	\$ 15,101.65	\$ 11,326.24	\$ 14,157.80	\$ 8,494.68	\$ 49,080.37

Change Orders and Amendments

Change Order No.	Vendor Name	Project ID	Description	Status Date	Days	Amount
Within Contingency, reviewed by Engineering Committee						\$ 49,080.37
58	Olsson	3220-000	Plant 1 Primary Basins 3 and 4 Existing Equipment Removal and Reinstallation	8/11/2022		\$ 26,498.32
59	Olsson	3220-000	Plant 1 Secondary Basins Existing Embedded Metal Plates	8/11/2022		\$ 4,290.48
60	Olsson	3220-000	Plant 2 Primary Baffle Frame Replacement	8/11/2022		\$ 18,291.57
Approved by Board of Directors						\$ 2,510,960.85
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

<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>
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

<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>
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

<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>
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

<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>
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

<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>
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
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

<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>
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
Duct-Common	Olsson	3231-000	Energy Building Monorail System Descope (F1-F4)	8/4/2022		\$ (70,585.34)
Duct-Liquids	Olsson	3220-000	Effluent Pump Station Descope (A1-A6)	8/4/2022		\$ (483,605.73)
Duct-Solids	Olsson	3287-000	Energy Building Modifications Descope (G1-G2, & H1-H2)	8/4/2022		\$ (357,382.60)
HAL 01	Hallsten	3220-000	Cover Layout Modifications	8/4/2022		\$ 16,715.25
Potential Change						\$ 432,432.51
PCO 002	Olsson	3287-000	Digester 4 Rail Coating	(blank)		\$ (1,000.00)
PCO 004	Olsson	3287-000	Digester 4 Control Narrative	(blank)		\$ 5,000.00
PCO 005	Olsson	3287-000	TWAS Slab Modifications	(blank)		\$ 50,000.00
PCO 009	Olsson	3287-000	PLC East Headworks Integration	(blank)		\$ 10,000.00
PCO 018	Olsson	3287-000	Duct bank L Interferences	(blank)		\$ 10,000.00
PCO 026	Olsson	3287-000	Gas Hatch Lids Mating Connection	(blank)		\$ 7,771.00

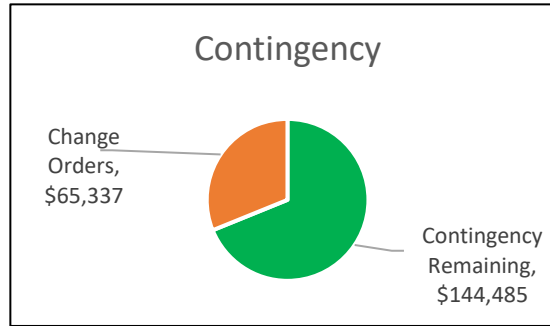
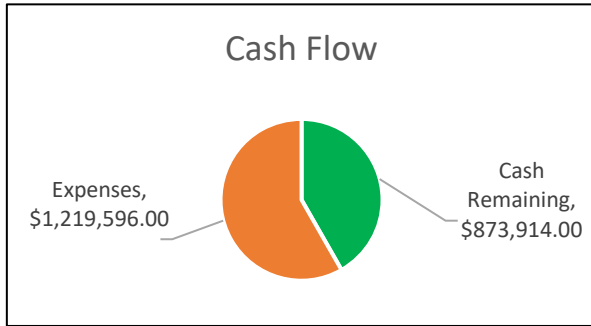
<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Days</u>	<u>Amount</u>
PCO 039	Olsson	3220-000	Diversion Structure Gate Actuator Power Feed Replacement	8/13/2020		\$ 5,000.00
PCO 050	Olsson	3220-000	Telescoping Valves Rework	12/23/2020		\$ 27,884.00
PCO 066	Olsson	3287-000	DAFT 1 Repair	(blank)		\$ 60,000.00
PCO 081	Olsson	3220-000	Plant 1 Primary Influent Channel Additional Cleaning	7/27/2022		\$ 19,667.41
PCO 087	Olsson	3220-000	Plant 1 Primary Basins Crack Injection	7/18/2022		\$ 77,641.65
PCO 092	Olsson	3287-000	Hot Water System Expansion Tank	8/31/2021		\$ 5,000.00
PCO 094	Olsson	3287-000	Additional Red Coloring Agent to Concrete	9/1/2021		\$ 5,000.00
PCO 095	Olsson	3287-000	Foul Air Rerouting at DAFT 2	9/2/2021		\$ 5,000.00
PCO 097	Olsson	3287-000	Digester Hot Water Temperature Gauge Setting	9/15/2021		\$ 5,000.00
PCO 098	Olsson	3220-000	Plant 1 Bypass pumping Change	10/12/2021		\$ 74,226.27
PCO 113	Olsson	3287-000	Field Wiring Solenoid Valve for DAFT 2 Pressurization System	3/15/2022		\$ 25,061.07
PCO 115	Olsson	3220-000	Plant 1 Primary Basins and Channels Additional Solids Removal	7/27/2022		\$ 41,181.11
Grand Total					191	\$ 2,992,473.73

Project Financial Status

Data Last Updated

Project Committee	17
Project Name	Aeration Diffuser Replacements
Project Description	Replacing panel diffusers with disc diffusers in all six aeration basins. Includes replacement of drop pipes and air distribution piping inside the basins.

August 2, 2022



Cash Flow

Collected	\$ 2,093,510.00
Expenses	\$ 1,219,596.00

Project Completion

Schedule	92%
Budget	65%

Construction Contracts

Company	PO No.	Original	Change Orders	Amendments	Total	Invoiced
Filanc	16306	\$ 1,747,194.00	\$ 65,337.02		\$ 1,812,531.02	\$ 1,185,840.44
Lee & Ro	16119	\$ 37,738.00		\$ -	\$ 37,738.00	\$ 16,304.47
					\$ -	\$ -
		\$ 1,784,932.00	\$ 65,337.02	\$ -	\$ 1,850,269.02	\$ 1,202,144.91

**Values include change orders to be reviewed by Engineering Committee and deductive change orders*

Construction Contingency

Area	Project Code	Amount	Change Orders	Total Remaining	Percent Used
Liquids	3753-000	\$ 209,822.00	\$ 65,337.02	\$ 144,484.98	31.1%
		\$ 209,822.00	\$ 65,337.02	\$ 144,484.98	31.1%

Change Orders

<u>Change Order No.</u>	<u>Vendor Name</u>	<u>Project ID</u>	<u>Description</u>	<u>Status Date</u>	<u>Amount</u>	<u>Days</u>
Within Contingency,			reviewed by Engineering Committee		\$ 65,337.02	0
01	Filanc	3753-000	Corroded Grating Angle Replacement	7/14/2022	\$ 5,748.01	0
02	Filanc	3753-000	Diffuser Support Modifications (Supply Chain Issue)	7/14/2022	\$ 21,437.52	0
03	Filanc	3753-000	Air Header Insulation	7/14/2022	\$ 38,151.49	0
Potential Change					\$ -	250
PCO 02	Filanc	3753-000	Diffuser Delivery Time Delay	3/30/2022	\$ -	250
Grand Total					\$ 65,337.02	250

Agenda Item

5.M.

Budgeted: Yes

Budget amount: PC 15 \$70,000 PC 17 \$336,004

Line Item: PC15 & PC 17 Line 5008

Legal Counsel Review: No

Meeting Date: September 1, 2022

TO: Board of Directors

FROM: Betty Burnett, General Manager

CONTACT: Jim Burror, Director of Operations

SUBJECT: One (1) Year Contract Extension Award to Miles Chemical for Ferric Chloride

Summary

SOCWA has one last annual renewal under the current five (5) year contract for ferric chloride with Miles Chemical. This agenda item provides the recommendation to exercise the last year of the contract at \$975 per ton, plus applicable fees and taxes, including applicable charges for split load deliveries.

Discussion/Analysis

The proposed increase from Miles Chemical for this 1-year extension is an increase of 40.0% over the current contract pricing. The increase would be from \$625.00 to \$975.00 per ton. The primary driver for the proposed increase in the costs is for hauling costs associated with increased diesel fuel prices.

Recent bids found online for ferric chloride range from \$935 to \$1,300 per ton. The lower-priced bids were for large single-site contracts, unlike SOCWA and the member agencies.

Prior Related Project Committee or Board Action(s)

None

Fiscal impact

The impact on each of the Project Committees will be a 40.0% increase over last year's expenses for ferric chloride. The full Board will consider approval of this increase at the September Board meeting. It is likely that prior to the close of the fiscal year, staff will be seeking a line-item budget adjustment for this supply.

Recommended Action: The Engineering Committee recommends that the Board of Directors authorize the General Manager to provide a 1-year contract extension to Miles Chemical, Inc. for ferric chloride at a rate of \$975.00 per dry ton for full loads (40,000+ dry tons), \$1,095.00 per dry ton for loads of 20,000 to <40,000 dry tons and \$1,216.00 per dry ton for loads of 10,000 to <20,000 dry ton.

Agenda Item

6.A.

Budgeted: No

Budget amount: \$90,000 – collected FY 2021-22

Project ID: N/A

Legal Counsel Review: No

Meeting Date: September 1, 2022

TO: PC5 & PC24 Board Members

FROM: Betty Burnett, SOCWA General Manager

STAFF CONTACT: Amber Baylor, Director of Environmental Compliance

SUBJECT: Aliso & San Juan Creek Ocean Outfall Inspections

Summary

The State Lands Commission (SLC) lease applications were submitted April 27, 2022. The lease applications were deemed complete May 27, 2022. After further review of the applications SLC required updated inspections to be performed on both the Aliso and San Juan Creek Ocean Outfalls. The last inspection of both outfalls was in 2015. There is no requirement in the updated NPDES permits for the inspections. Monies have been budgeted in the capital spending program for FY 22-23 for this work.

Discussion/Analysis

At the June 3, 2022, Board of Directors meeting, SOCWA provided an update to the inspection requirements that were in discussion with SLC. SOCWA staff also updated the Board on the review of services for outfall inspection based on the 2015 scope of work. SOCWA staff indicated that a formal Request for Proposals (RFP) would be released to receive more competition for services. The RFP was released July 21, 2022, with a pre-bid meeting on July 28, 2022. SOCWA met with one of the bidders in person at the SOCWA office. The deadline for submittal of the RFP response was August 18, 2022.

SOCWA Engineering and Operations staff met to review the proposals prior to the unanimous decision by the SOCWA review committee. The SOCWA staff review committee discussed the merits of both proposals. Both firms are well qualified to perform this work. SubSea Global Solutions was formally known as Parker Diving Service, who is the firm that has historically performed inspections at both outfalls which provided the firm with a higher technical score due to the historic familiarity with the outfalls. The firms responded to the RFP with separate approaches, where Undersea Global proposed the inspection using a manned submarine and Subsea Global Solutions proposed the use of a remote underwater vehicle. The cost proposals also differed in an open ended, per diem proposal by Undersea Graphics and a fixed cost proposal by Subsea Global Solutions. The outfall inspections will be occurring at the beginning of large storm events in California which could delay days in the water to complete thus requiring an amendment to the contract award to Undersea Graphics due to the open nature of the proposal. Other unforeseen details may not have been grasped by Undersea Graphics, thus also increasing

the potential to exceed the initial cost. In addition, needed insurance was not included in the Undersea Graphics proposal thus also increasing the initial cost. The unmanned nature of the ROV was a preferred approach due to the safety considerations around the outfalls.

Advisory Committee Review

Due to the timing of the completion of the inspection in alignment with the requests by SLC, the Engineering Committee has not reviewed the proposals. The SOCWA Engineering and Operations staff met to review the proposals prior to the unanimous decision by the SOCWA review committee for awarding of the contract to Subsea Global Solutions.

Prior Related Project Committee or Board Action(s)

SOCWA staff indicated that the lease application process was underway at the April 2022 Board meeting.

Fiscal impact

The fixed cost for Subsea Global Solutions is \$89,600 which would be split between PC5 and PC24 to each member agency in fixed percentages as indicated in the tables below. The funding for the project was collected in FY 2021-22 in the amount of \$90,000. The funding was not expended from the non-capital miscellaneous (562210-000 PC5) (542210-000 PC 24). Staff is recommending that the Finance Department be instructed to retain the cash on hand \$90,000 for the project with the close of the Fiscal Year Use Audit.

Member Agency	Percent Ownership (%)	Cost Per Agency (\$)
City of San Clemente	16.6	\$ 7,436.80
City of San Juan Capistrano	11.1	\$ 4,972.80
Moulton Niguel Water District	15.5	\$ 6,944.00
Santa Margarita Water District	44.3	\$ 19,846.40
South Coast Water District	12.5	\$ 5,600.00
		\$ 44,800.00

Table 1: PC5 Member Agency Cost Distribution based on percent ownership.

Member Agency	Percent Ownership (%)	Cost Per Agency (\$)
City of Laguna Beach	11	\$ 4,928.00
El Toro Water District	16.3	\$ 7,302.40
Emerald Bay Service District	0.8	\$ 358.40
Irvine Ranch Water District	15.8	\$ 7,078.40
Moulton Niguel Water District	43.8	\$ 19,622.40
South Coast Water District	12.3	\$ 5,510.40
		\$ 44,800.00

Table 2: PC24 Member Agency Cost Distribution based on percent ownership.

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Recommended Action: Staff recommends that the PC5 and PC 24 Board authorize awarding the contract for both outfall inspections to SubSea Global Solutions for an amount not to exceed \$89,600. Staff recommends that the Finance Department be instructed to retain \$90,000 cash on hand for the project with the close of the Fiscal Year Use Audit 2021-22 (cost to be shared equally between PC 5 and 24).

Attachment(s): Proposals are included as attachments.

COVER TRANSMITTAL LETTER

Date: August 18, 2022

South Orange County Wastewater Authority
34156 Del Obispo Street
Dana Point, CA 92629
Phone: (949) 324-5279

Attn: Jeanette Cotinola
Procurement / Contracts Manager

Re: Letter of Transmittal –RFP Ocean Outfall External Inspection and Condition Survey

Dear Ms. Jeanette Cotinola,

Thank you for considering Subsea Global Solutions (SGS) US West Coast LLC as the contractor for Ocean Outfall External Inspection and Condition Survey of the San Juan Creek Ocean Outfall and the Aliso Creek Ocean Outfall. For over 70 years, SGS (formerly Parker Diving Service LLC) has been providing commercial diving services to the Southern California Region and abroad. Throughout the years SGS has successfully executed, and continues to execute, similar underwater services to this RFP, including services for municipal clients with ageing ocean outfall infrastructure assets in Southern and Central California. SGS will bring our decades of experience, expertise, and technical performing the external inspection and condition assessment survey.

Thank you again for the opportunity. SGS looks forward to serving the South Orange County Wastewater Authority.

Sincerely,

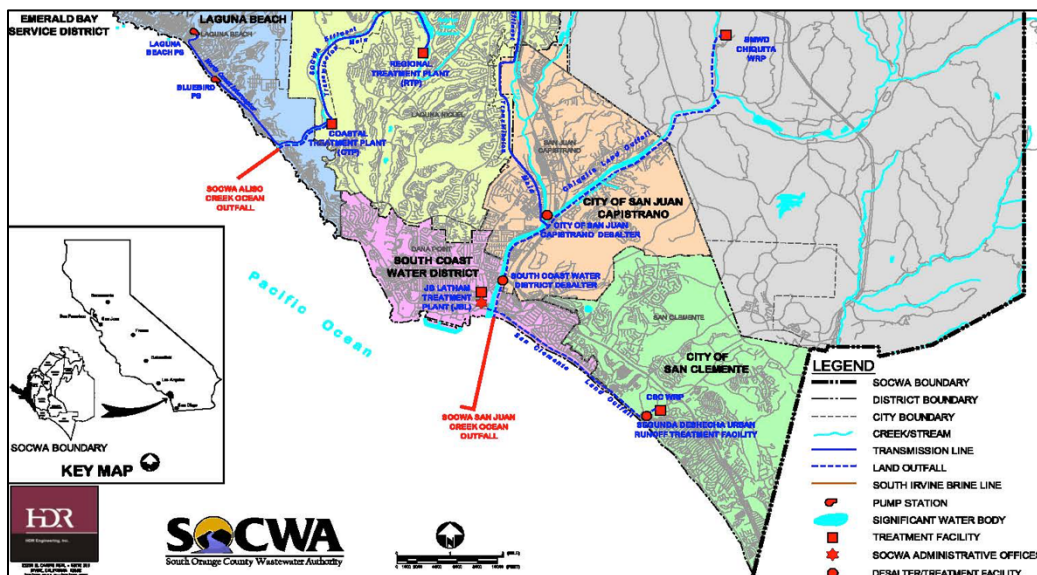


Scott Nordholm P.E.
Marine Construction Manager
SGS US West Coast, LLC

Understanding of Key Issues / Challenges

SGS US West Coast, LLC. have read and understand the scope of work as requested and stated in Section 8.3 of the RFP Ocean Outfall External Inspection and Condition Survey.

SGS shall complete the requested outfall external inspection and condition survey using an unmanned remotely operated vehicle (ROV). The ROV inspection efforts shall be performed from SGS’ 50-foot workboat Parker 1, which will act as mothership for the ROV during the visual inspection of the Aliso Creek Ocean Outfall (ACOO or Aliso Outfall) and the San Juan Creek Ocean Outfall (SJCOO or SJC Outfall). ACOO and SJCOO will be inspected for any leaks, cracks, and/or deterioration. SGS shall conduct and document the inspection in accordance with the scope of work outlined in Section 8.3 of the RFP. A thorough inspection shall be conducted with high quality photo and video documentation. Any abnormalities observed will be fully investigated and documented.

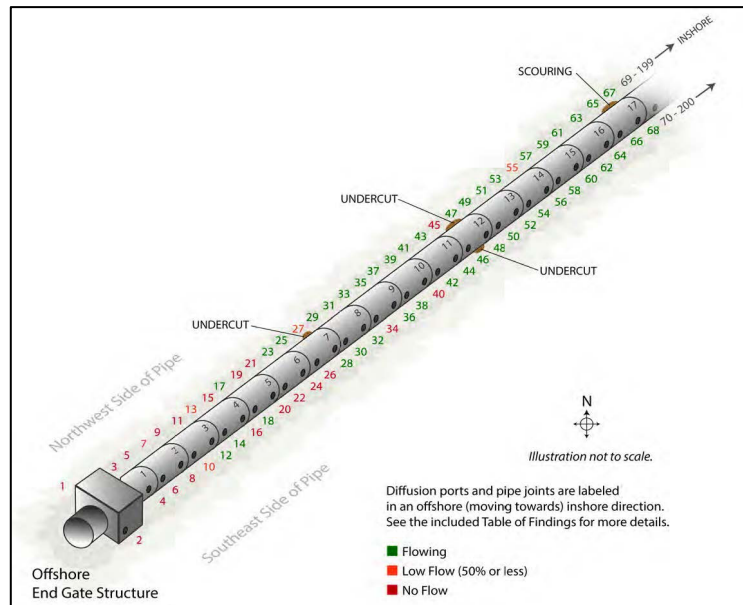


One of the main challenges of performing the inspection of these two unique outfall structures is that they are both located in water of a significant depth. The SJCOO and ACOO are in water depths that vary to a maximum of 98’ msl and 195’ msl, respectively. The use of SGS divers to conduct the inspection of the outfalls in water of this depth would be costly and inefficient, especially given the advances in ROV technology. It is our experience that divers are best utilized to implement repair and/or maintenance tasks that cannot be performed remotely. The use of an ROV will allow SGS to stay on station for an extended duration of time, performing all inspection activities without putting divers and/or staff in the water.

Previously, SGS had utilized alternative means and methods for the inspection of the two ocean outfalls. By using an ROV we are best able to provide high quality inspection services such that the cost and duration of the project is minimized.

One of the challenges faced during any open ocean inspection efforts is the effect of weather on the operations. SGS has significant experience successfully operating in open ocean environments, where changes in weather and sea state must be considered.

Earlier this year, SGS performed inspection and repair services for Orange County Sanitation District (OCSD) on their 120" ocean outfall, located off the coast of Huntington Beach. Our experience was that the open ocean conditions varied each day throughout the project. Our project plan included weather / standby days, which we ended up using to ensure the safe execution of the project. SGS has included rates for standby days, to ensure that changing weather conditions are accounted for in the project plan.



Prior to the performance of work SGS shall prepare a safety plan for review and consideration by SOCWA for the safe implementation of ROV inspection operations.

SGS shall prepare an outfall inspection report for both the SJCOO and ACOO, in accordance guidelines set forth in Section 8.3.3, 8.3.4, 8.3.5 and 8.3.6 of the RFP. SGS anticipates that this report preparation task will be a collaborative effort between SGS and SOCWA. SGS brings to the table significant engineering inspection and condition assessment experience and has found that the best reports include client feedback during the preparation process. We intended employ this inclusive process here with SOCWA staff.

Submittal Qualifications

SGS US West Coast, LLC (SGS) was established in 1945 and specializes in providing superior commercial diving services for the construction, shipping, energy and offshore oil and gas industries. SGS is globally recognized for its expertise in successfully completing major and complex underwater ship repairs. SGS has over 20 years of experience with infrastructure maintenance including the inspection and rehabilitation of numerous offshore ocean outfall intake pipes and structures including work for AES, LA DWP, EWA, The City of Los Angeles, OCSD, and SOCWA. In addition, SGS will work in conjunction with Pro ROV Services (PRS) employing PRS' vast experience in ocean outfall inspection and will utilize their state-of-the-art ROV technology.

Below is only a partial list of the past projects performed and completed by SGS exemplifying our knowledge, experience, and expertise in completing similar a scope of work as that requested:

1. OCSD 120" Ocean Outfall Inspection and Repairs

Subsea Global Solutions (SGS) attended the Orange County Sanitation District (OCSD) 120" External Ocean Outfall to perform inspection and repair operations which included the replacement of previously inspected tie-rods, and epoxy repairs in way of previously reported cracking identified on the pipe, and most notably at the end structure flap gate.

Client: Carollo Engineers

Client Reference: Gail Lynch

Telephone: (714) 376-7236

2. Aliso Creek and San Juan Creek – Ocean Outfall Inspection Services

SGS has successfully completed the exterior inspections of the SOCWA Aliso Creek and San Juan Creek Ocean Outfalls (5) five times in the past including 1999, 2002, 2006, 2009/2010, and most recently in April of 2015. In the most recent exterior inspection, SGS utilized submarine technology as proposed and successfully composed a comprehensive report detailing the current conditions of the outfalls identifying the required rehabilitation work.

Client: South Orange County Wastewater Authority (SOCWA)

Client Reference: Brian Peck; Janie Chen

Telephone: (949) 234-5411

3. Aliso Creek Outfall – Internal Inspection

SGS has successfully completed the internal inspection of the Aliso Creek Outfall every two years since 1992.

Client: South Orange County Wastewater Authority (SOCWA)

Client Reference: Brian Peck

Telephone: (949) 234-5411

4. Aliso Creek Outfall – Internal Inspection & Joint Repair

SGS successfully inspected and replaced (5) five sealing bands at failed joints along the Aliso Creek outfall pipe in August of 2013.

Client: South Orange County Wastewater Authority (SOCWA)

Client Reference: Brian Peck

Telephone: (949) 234-5411

5. AES Huntington Beach Offshore Intake and Outfall Structure Inspection

SGS has successfully completed the inspection and report for the AES Huntington Beach offshore intake and outfall structure annually for over a decade.

Client: AES Huntington Beach

Client Reference: Joshua Wynia

Telephone (714) 374-1417

6. AES Huntington Beach Intake Structure Mammal Barrier Grating Rebuild

SGS performed an inspection of the mammal barrier grating, determining the grating's structural integrity had been compromised. In response to these findings, SGS successfully fabricated and installed new gratings at the offshore structure in 2013.

Client: AES Huntington Beach

Client Reference: Joshua Wynia

Telephone: (714) 374-1417

7. The Port of Long Beach – On Call Underwater Hard Hat Diving Services

SGS has been contracted with the Port of Long Beach for on call hard hat diving and maintenance services for over 21 years. Work includes pile and wharf inspection and repair, material salvage, inspection services, anode repair and installation, and erosion remediation.

Client: The Port of Long Beach (POLB)

Client Reference: Robert Chow

Telephone: (562) 590-4150

8. The Port of Los Angeles – On Call Underwater Hard Hat Diving Services

SGS was contracted with the Port of Los Angeles for on call hard hat diving and maintenance services from 2010 to Present Day. Work included pile and wharf inspection and repair, material salvage, inspection services, and seawall inspection and evaluation.

Client: The Port of Los Angeles (POLA)

Client Reference: Chuong Duc Le

Telephone: (310) 732-7692

9. SONGS Outfall and Intake Decommissioning

SGS was subcontracted by Manson Construction to perform all diving operations for the decommissioning of SONGS Unit #1 outfall and intake structure. Work included the successful underwater cutting and removal of the concrete intake structure and the installation mammal barrier grates.

Client: Manson Construction Co.

Client Reference: Eric Faria

Telephone: (562) 983-2360

10. Lake Gregory Tunnel Inspection

SGS performed an inspection of the 1,200LF Lake Gregory Dam inlet tunnel and the trash rack located at the tunnel inlet opening. SGS documented and reported the as-built conditions and dimensions to be utilized for a future repair contracts.

Client: Tetra Tech, Inc.

Client Reference: Mark A. Ralph

Telephone: (502) 564-5555

SGS has included the evidence of insurance is included as Appendix B of this proposal.

Project Approach

SGS shall utilize the following designated personnel to successfully undertake and complete the requested inspection services. All of SGS's team are highly experienced in offshore outfall inspection and repairs and have firsthand knowledge of the SOCWA outfalls with previous inspection and repair experience.

Scott Nordholm, P.E. – Marine Construction Manager: Scott Nordholm is a registered professional engineer with over 14 years performing condition assessment and repair design on waterfront infrastructure assets and facilities in various condition states. SGS will leverage this experience during the performance of the inspection, to ensure that all contracted inspection goals are met, and that any unforeseen defects can be properly documented, and their impacts understood.

Eric Rosado – Marine Construction Operations Manager: Eric Rosado is a commercial diver and safety officer with over 25 years of diving, underwater inspection, repair, and condition assessment experience. SGS will leverage his experience on this project. Eric is skilled manager, with proven experience leading multi-disciplinary teams under challenging project constraints.

Mark Stepanek – Pro-ROV Services: With over 15 years of ROV experience, Mark Stepanek as a certified ROV supervisor has been a lead pilot and project manager for 12 years. His ROV operation and supervision experience ranges from open water live boating structural inspection offshore to long tunnel internal inspections in power tunnels, penstocks, aqueducts, and outfalls. Mark has co-authored "Techniques and Tips to get the Most out of your mini-ROV" for Oceans '09 trade show.

Eugene Van – Project Manager: Mr. Eugene Van shall act as a tender and deck hand for this project. Eugene has been with SGS since 2006. He is a very talented diver and tender, and has helped the company successfully complete several of the projects. Eugene has developed excellent diving and boating skills, gaining extensive experience in offshore work during the SONGs project.

Additional vessel support staff shall be provided as required. SGS employs approximately 30 field personnel, most of whom work full time as diver/tenders for the company. Several of our employees have been with SGS for over ten years. SGS shall utilize the best available vessel support team and the best management team for the performance of this work. Our experienced, stable workforce enables us to successfully complete complex jobs at a high caliber and allows us to continue performing work for the same clientele year after year.

SGS and PRS shall work hand in hand during the performance of the ocean outfall external inspection and condition survey efforts. While SGS will rely on PRS to pilot and operate their ROV, we will work side by side with PRS observing the inspection in real time. Our team brings to bear over 30 years of condition assessment inspection experience, and by working together in real time we will provide an up-to-date view into the ongoing condition assessment needs of the ACOO and SJCOO outfalls.

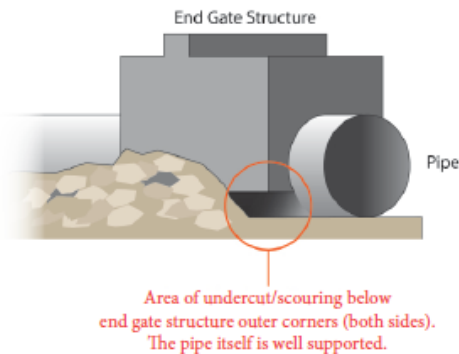
The SGS team members assigned to the project will be dedicated to the performance of this work and available for the follow-on meetings and presentations as required in the RFP. SOCWA's primary point of contact will be Scott Nordholm, who will guide the inspection process and take responsible charge for the report preparation.

During our review of the RFP, SGS considered utilizing the same means and methods previously used to inspect the outfall. During this review, SGS felt that the safety issues and liability associated placing staff

in a manned submarine were a concern that could be addressed through the use of an ROV. Our past working experience with PRS has allowed us to conduct inspections more efficiently and with superior data granularity. We feel these means and methods are the proper choice for the inspection services detailed in the RFP.

It is our experience during the performance of many projects with PRS that they have high-quality, well-maintained underwater inspection equipment and the attention to deal with a professional attitude. Their remote sensing equipment, real time data acquisition and detailed reporting capabilities will allow the SGS team too accurately document the conditions observed during the inspection. For these reasons, SGS has chosen to continue our relationship with PRS and included our team for the performance of this project.

The SGS team's inspection will include, and may not be limited to the following items:



- SGS shall perform a visual inspection of the surrounding area of the diffuser pipe to determine the thickness of any “cloud” of unsettled solids, and ocean bottom flora and fauna. These inspections shall include general observation and digital and/or film documentation of the outfall pipelines and surrounding ocean bottom.
- SGS shall perform visual inspection of all diffuser ports (125 diffuser ports for SJCOO and two hundred diffuser ports for ACOO) to detect any obstructions, leaks, and/or inadequate flow distribution.
- SGS shall examine each diffuser pipe, and main barrel sections denoted as the Offshore, Mid-Section, and Inshore Sections. SGS shall examine, digital and/or film documentation, and report on the marine growth, structural integrity of the pipeline, supports, ballast, manholes, tee structure, bulkhead structures, bell joints, separations, and undercutting of the ballast and supports.
- SGS shall document all problem areas with digital and/or film documentation as described in Section 8.3.3. Perform checks of pipe gaps and inspect for concrete spalling, pipe shifts, and leakage at pipe joints. Evaluate the condition of manholes for possible opening for internal inspections.
- For each of the diffuser ports, SGS shall identify and photograph the obstruction or material plugging the ports. SGS shall be available to perform additional testing and/or further inspections as agreed upon during the Meeting to Suggest Additional Work phase listed in Table 3 in section 9.
- SGS shall be available to perform any additional work that is requested by SOCWA during the Kickoff Meeting or the Meeting to Suggest Additional Work phases listed in Table 3 in section 9 or at any time, if agreed upon by SOCWA and the SGS. Additional scope of work to be prepared and provided to SGS by SOCWA.

SGS shall submit for review and approval by SOCWA an EM-385-1-1 job specific safe work plan to include adherence to all applicable state and local laws pertaining to COVID-19 mitigation measures. While working offshore we anticipate the project to be conducted on well ventilated spaces on our inspection vessel. SGS will ensure that all agreed to mitigation measures, before during and after the inspection, are adhered to.

Quality control and accurate reporting is required for the successful performance of this work. All the underwater ROV inspection activities will be video recorded, and high-quality photos will be taken of all observed defects. This running video log of all underwater observations serves to memorialize the condition of the outfalls and allows SGS to refer to during the preparation and QA/QC of the report. Additionally, PRS will assist with report preparation and this back and forth between experienced condition assessment professionals will ensure that the data is reviewed appropriately.

ROV navigation fixes and video will be accurately linked so that accurate positioning of the video information can be determined. Post-plots will show the trackline of the ROV along the transect. Still images will be captured every 5 seconds with an 8MP wide angle lens still camera.

ROV Equipment

- Includes the primary ROV, a Blue ROV2 with vectored 1 thrusters, color HD video camera, HD still camera, 6,000 lumen LED lighting system, tether, grabber arm.
- Secondary ROV will be a SeaBotix 300-6.
- Clump weight system, davit and winch for live boat survey will be integrated onto vessel
- Video and Audio Recording equipment
- Tritech MicroNav Tracking/Navigation System
- Tritech Micron Scanning Sonar

Specifications of the specific ROV equipment have been included in Appendix A for your review and consideration.

SGS, along with PRS shall perform all the work described in the RFP. Our longstanding relationship with PRS is documented in the following listed projects:

- **AES Huntington Beach – Offshore Intake/Discharge Piping Condition Assessment (2018)**
SGS and PRS performed an internal condition assessment of four pipelines, including an offshore intake pipeline, onshore cross-over discharge to intake pipeline, offshore discharge pipeline and the offshore intake pipeline. Internal visual inspection of the pipelines was performed using the PRS team and equipment. Project was completed successfully to the satisfaction of the client.
- **LADWP Harbor Generating Station – Circulating Water System Tunnel Inspection (2017)**
SGS and PRS performed a visual and sonar inspection using an ROV of the two intake tunnels at the LADWP Harbor Generating Station in the circulating water system intake chamber. The interior of the tunnels were inspected with high-resolution video recording with audio and a TriTech micron scanning sonar along the length of the tunnels. Project was completed successfully to the satisfaction of the client.

Innovative/Alternative Ideas

The big takeaway for this project is efficient and accurate capture of inspection data, so that the current condition of the two outfalls can be understood by the decision makers at SOCWA. Using an ROV with high resolution video and photographic capabilities, SGS intends to capture all relevant condition data using cost effective means and methods and provide value to the public and to the SOCWA. Our local presence here in Southern California and experience performing inspections, repairs, and maintenance for SOCWA and other facility owners allows SGS the understanding of how to properly scope the job to meet site specific and project specific needs.

Schedule

From our extensive experience performing similar offshore outfall rehabilitation and inspection work, including work performed on the SOCWA outfalls, SGS feels that the proposed dates are feasible for completion of the proposed scope of work and potential additional work as suggested. SGS shall perform the work in such a manner that all inspection work is performed during the best period of ocean water clarity. Based on our experience and the project schedule provided in the RFP document by SOCWA, SGS recommends and shall schedule the completion all the offshore inspection work during the month of October to capitalize on the visibility conditions. SGS intends to complete the offshore inspection efforts on the SJCOO and ACOO over the course of single five (5) day week. We anticipate mobilization and demobilization will take two days, one at the start of the project and then again at the completion of the work. It is possible that there may be delays in the schedule due to weather and sea state. SGS has included a rate for standby time for these unforeseen weather and sea state conditions may be encountered. SGS intends to monitor the weather forecasts leading to the job, so that delays can be avoided.

Pricing and Cost Approach

SGS is pleased to provide the following cost proposal for the inspection and condition survey of the SJCOO and the ACOO outfalls, in accordance with the details outlined in the RFP.

ITEM	DESCRIPTION	QTY	UNIT	UNIT PRICE	EXTENSION
1	Mobilize & Demobilize SGS Inspection Vessel to / from Long Beach & Dana Point - Includes all labor and equipment associated with the preparation of equipment for offshore operations	2	EA	\$12,500.00	\$25,000.00
2	Aliso Creek Outfall ROV Inspection - Includes SGS vessel (3 crew) & Pro-ROV Remotely Operated Vehicle	1	EA	\$25,300.00	\$25,300.00
3	San Juan Creek Outfall ROV Inspection - Includes SGS vessel (3 crew) & Pro-ROV Remotely Operated Vehicle	1	EA	\$25,300.00	\$25,300.00
4	Follow-on reports for the San Juan and Aliso Creek Outfalls, inclusive of meetings, presentations and coordinating with SOCWA	2	EA	\$7,000.00	\$14,000.00
5	Inclement Sea State / Weather Standby for SGS Vessel - For unlikely situations due to weather where the scope of work cannot be safely performed	-	DY	\$5,000.00	-
Total Proposal:					\$89,600.00

- Proposal pricing based on working 10-hours per day, Monday – Friday, unless otherwise noted. Additional rates are available for Premium Time, Double Time, Saturday, and Sunday upon request.
- Proposal based on a single mobilization to and a single demobilization from the Dana Point Harbor. Once in Dana Point, our proposal assumes daily mobilization and demobilization of SGS Dive Vessel to and from a berth in Dana Point Harbor. Mooring costs in Dana Point Harbor are included in our rates.
- Additional yet to be agreed to tasks may change the overall cost for the project. SGS is happy to discuss such changes at the request of SOCWA.
- SGS shall provide all pre-dive work plans, safety documentation, and submittals as required.
- SGS shall provide daily logs and reports, JSAs, and final report, including underwater photo and video documentation as required.
- Proposal is CA prevailing wage and USL&H insurance compliant; SGS is signatory to the Southwest Carpenters Union.
- SGS is not responsible for circumstances beyond our control or delays caused by others and acts of nature.
- Proposal based on anticipated start / completion in **Q3/Q4 2022**.
- **Contractor’s License:** 971032 A – General Engineering, Expiration Date: 03/31/2024
- **DIR Registration No.:** 1000024432, Expiration Date: 06/30/2024

Contract Disputes

SGS has reviewed the proposed contract language. SGS respectfully requests that we be able to invoice SOCWA on a bi-weekly basis, rather than the proposed monthly basis. SGS respectfully requests that invoice payments be processed on 30-day terms, rather than the 45-day terms. SGS take no exception to the additional proposed contract language and is excited about continuing our relationship with SOCWA.

Appendix A – SOQ Materials

Team Resumes

Scott Nordholm, P.E.

SGS Marine Construction Manager / Project Manager

14+ Years Industry Experience

SUMMARY OF QUALIFICATIONS

- Registered Professional Civil Engineer with over 14 years of experience on infrastructure and facilities projects with an emphasis on the design, construction, inspection and repair of waterfront and commercial structures.
- ADC certified Surface Supply Air Diver with experience planning, managing and executing the inspection, design and repair implementation for a broad spectrum of inland and coastal infrastructure assets in a wide variety of environments.
- Excellent communicator and motivated team member; skilled in collaborating under unique constraints to achieve project objectives on time and on budget.

PROFESSIONAL EXPERIENCE

AECOM

Marine Project Manager / Professional Engineer-Diver (April 2015 – April 2022)

- Managed AECOM's in-house team of engineers and commercial divers which serviced private, municipal, state, federal, and DOD clients on projects both domestically and internationally.
- Collaborated with owners, clients and vendors to develop turnkey solutions for safe, efficient, and cost-effective inspection, maintenance and repair services.
- Prepared bidding documents for multiple low bid and performance based municipal and statewide on-call diving contracts. Preparations included contract review, cost estimates and profitability analysis, all of which was presented to management for a go/no-go determination.

Madsen, Kneppers & Associates

Forensic Engineer / Construction Consultant (August 2014 – March 2015)

- Clerk of the Works for a \$5 million property loss for the County of San Bernardino. Successfully coordinated with various county departments, multiple independent contractors, other engineering professionals and insurance carriers to ensure the work remained within scope and progressed on time. Successfully collaborated with shareholders to minimize construction related inefficiencies and reduce inconvenience to the county employees and public.
- Structural inspection team member for a \$28 million seven story residential property loss located in downtown Los Angeles. Performed ongoing structural inspections during the demolition/fire clean-up to identify and document damage to the remaining concrete podium.

Moffatt & Nichol**Professional Engineer (January 2008 – July 2014)**

- Provided extensive and comprehensive construction support for five individual projects over an 18-month period as part of a \$1.2 billion fully-automated container terminal redevelopment project. Key responsibilities included the following:
 - Interacted daily in the field with the individual CM and Construction teams to address a variety of ongoing construction related design questions and / or issues.
 - Coordinated with other project design professionals and the client to address complex construction issues in a timely fashion to ensure they were kept off the critical path.
 - Took responsible charge for performing structural observations as required by the City of Long Beach.
- Field engineer for an \$8 million dollar capital improvement project to replace the aging sea wall and pedestrian bridge to a private island. Responsible for coordinating with contractor, owners and city inspectors to ensure design related construction issues were resolved promptly.

LICENSES / CERTIFICATIONS

- **CA Registered Professional Civil Engineer - License # C81141**
- **ADC Surface Supplied Air Diver - Cert. # 54210**
- **FHWA-NHI 130091 Underwater Bridge Inspection Certification**
- **FHWA-NHI 130055 Safety Inspection of In-Service Bridges**
- **Minnesota Commercial Diver Training Center - Diploma**
- **Transportation Worker Identification Credential (TWIC)**
- **RAPIDGate Record Holder**

EDUCATION

California Polytechnic State University San Luis Obispo
2002-2007 Civil Engineering

Eric Rosado

SGS Marine Construction Operations Manager

24+ Years Industry Experience

PROFESSIONAL EXPERIENCE

AECOM

Safety Site Officer / Commercial Diver / Field Inspector (2012 – 2022)

- Site Safety Officer and a Commercial Diver/Field Inspector with a high level of experience of performing inspections, condition assessments and providing safety and construction oversight for various waterfront and landside demolition and construction projects. Eric has performed Site Safety Supervisor duties on several Port of Long Beach and Los Angeles construction and remediation projects, most recently at a large marine container terminal expansion project at the Port of Los Angeles. Eric has organized, performed and supervised various types of AECOM inspection, condition assessment, construction and remediation projects in California, Oregon, Texas, Louisiana, South Carolina, Oklahoma and Iowa.

Partial list of relevant projects worked on:

- APMT Pier 400 Project M Terminal Redevelopment & Automation, Port of Los Angeles, California, January 2019
- Shell Portland Pier Demolition Project, Portland, Oregon, September – November 2017, August – October 2018 (Construction Manager/Site Safety Officer)
- Univar Bonnie Beach, City of Commerce, CA, June 2013 – October 2018 (Construction Manager, Site Safety Officer and Remediation Systems Maintenance Field Technician)
- Montrose TGRS Superfund Site, Torrance, CA, May 2017 – October 2018 (Operations and Maintenance Field Technician)
- Port of Long Beach, Pier J, Long Beach, CA, 2010 – 2011 (Construction Manager/Site Safety Officer)
- Port of Long Beach, Pier S, Port of Long Beach, CA, 2011 – 2012 (Construction Manager/Site Safety Officer)
- USCG Base LA/LB Industrial Wharf Construction Inspections, San Pedro, CA, October 2016 – February 2018 (Diver-Inspector)
- DOW Chemical St. Charles Facility Railroad Bridge Inspections Hahnville, LA, December 2017 (NHI Certified Diver)
- Shell Mormon Island MOTEMS Inspection, Port of Los Angeles, CA June 2017 (Diver)
- Berths 212 – 225, Port of Los Angeles CA, January – April, 2017 (Diver, Dive Supervisor)
- Venice Beach Pier Assessment, City of Los Angeles CA, January 2017, (Diver, Dive Supervisor)
- Kinder Morgan Richmond Terminal, MOTEMS Inspection, Richmond, CA, January 2017 (Diver)
- State of California Department of Water Resources - Statewide On-call Diving Services; 2011-2016 (Diver, Diving Supervisor)

LICENSES / CERTIFICATIONS

- **Corporal MOS 0313 0311 United States Marine Corps 1994 – 1998**
- **Safety Trained Supervisor Construction (STSC) Certification**
- **OSHA 30-Hour Construction Safety and Health Certification**
- **EM385-1-1 40-Hour Safety Certification**
- **HAZWOPER Supervisor Certification**
- **Association of Diving Contractors International (ADCI) - Commercial Air Diver**
- **Commercial Air Diver Supervisor**
- **FHWA-NHI 130091**
- **Underwater Bridge Inspection Certification**
- **Transportation Worker Identification Credential (TWIC)**
- **ANST NDT 1066**
- **Level III Ultrasonic Thickness Testing**
- **Level I-II Visual, Magnetic Particle and Dye Penetrant Testing**
- **California Class “A” Contractor’s License No.868335**

EDUCATION

College of Oceaneering
1998 - Commercial Diving

Eugene Van

SGS Project Manager / Diving Supervisor / Diving Inspector / Diver
15+ Years Commercial Diving Experience

EMPLOYMENT HISTORY

SGS US West Coast, LLC
(2007 - Present)
Long Beach, CA

EDUCATION / TRAINING

College of Oceanering
Commercial Air Diving and
Weld Technician Program
(2007) Underwater Welding Technology

CERTIFICATIONS

ADCI
POLA / POLB Dive Permits
AWS D3.6: 3F, 4F, and 5F (Wet SMAW), Class A
Non-Destructive Testing
Certified Applicator of All SikaWrap Structural
Strengthening Materials and Sika Repair Motars
BASF Qualified Applicator/Contractor of All Master
Builders and Sonneborn Products
Certified Underwater Transhabitat Installation/Split Chrome
Liner Transfer and Installation, Liner Procedure and Cutting
Tool Operations, Stern Seal Arrangement and Alignment
Procedures per Subsea Solutions Alliance
Simplex-Compact Shaft Seals Technician, per Blohm &
Voss Industries

RELEVANT PROJECT EXPERIENCE

Experienced working with on-call underwater hard hat service contracts for the Port of Long Beach (POLB), Port of Los Angeles (POLA), Los Angeles Department of Water and Power (LADWP), and AES Huntington Beach. Detailed structural condition surveys and repairs of waterfront facilities including wood, steel, and concrete rehabilitation of piling and substructure members. Corrosion monitoring and installation of cathodic protection systems and electrolysis protection systems. Concrete piling repairs, including rebar installation, fiberglass encasement, pouring/pumping cement and epoxy grouts, wrapping with SikaWrap and Fibrwrap, and patching with Sika and BASF products. Timber pile repairs and wrapping, including jetting and installation of mud seal wraps. Seawall rehabilitation, including rebar installation, forming and pressure grout injection, repairing undermining by building barrier bulkheads and filling with concrete. Weld repairs to underwater structures. Detailed written reports with underwater video and still photography.

Partial list of relevant projects worked on:

- LADWP Deep Sea Diving Services (contract No. 570)
- POLB On-Call Hard Hat Diving Services
- AES Huntington Beach On-Call Maintenance
- CRC Island Inspection / Maintenance
- AES Huntington Beach Intake & Discharge Inspection & Repair
- AES Huntington Beach Desalinization Condition Assessment
- United States Coast Guard (USCG) Repair of Industrial Wharf At Base Los Angeles / Long Beach
- AES Huntington Beach Offshore Intake Red Buoy Emergency Inspection
- AES Huntington Beach Tank Inspection & Patch Repair
- Crowley Pier 15 Concrete Wharf Condition Inspection & Repair
- LADWP Castaic Power Plant Vortex Plate Rehabilitation
- LADWP Harbor Generating Station Circulating Water System Intake Structure Rebuild
- AES Huntington Beach Mammal Barrier Inspection, Cleaning & Repair
- Tetra Tech Sonar Removal & Installation
- Palmdale Water District Valve & Sluice Gate Inspection & Replacement
- South Orange County Wastewater Authority (SOCWA) Ocean Outfall Port Cleaning and Rehabilitation Services
- Port of Los Angeles Marine Improvements On-Call Contract
- Alamitos Bay Marina Dredging

Mark Stepanek - Pro-ROV Services**Owner and Operator***San Diego, California*

With over 15 years of ROV experience, Mark Stepanek as a certified ROV supervisor has been a lead pilot and project manager for 12 years. His ROV operation and supervision experience ranges from open water live boating structural inspection off shore to long tunnel internal inspections in power tunnels, penstocks, aqueducts, and outfalls. Mark has co-authored "Techniques and Tips to get the Most out of your mini-ROV" for Oceans '09 trade show.

EXPERIENCE

- **URS Corporation**, Oroville, CA – ROV video inspection of the Thermalito Diversion Dam as per FERC requirements
- **Weston Solutions**, Santa Monica Bay, CA – ROV video and navigation survey for proposed sites of new offshore grounding cable and electrode array for LADWP
- **Puget Sound Energy**, Concrete, WA – Responsible for bathymetric, echosound, video and digital hydrophone surveys on Lower Baker dam in both forebay and plunge pool areas.
- **Avista Corporation**, Cabinet Gorge, ID – ROV video and multibeam surveys of forebay on dam for lost float plane wreckage and survey of lake floor directly in front of dam
- **REDS Caribbean**, St. Eustatias, CARIBBEAN – ROV audio and video survey of Single Point Mooring (SPM) system and 1.5 mile pipeline for Valero Oil
- **Continental Shelf Associates (CSA)**, Houma, LOUISIANA – ROV pilot as part of scientific data collection surveys for sargassum study in relation to 2010 BP oil spill in Gulf of Mexico.
- **Exxon/Mobil** – ROV pilot on audio and video survey of two (2) riser pipes in 370-feet of water on pumping platform off coast of Galveston, TX
- **Pro Marine Technology**, GUAM – ROV pilot on audio and video inspection of two outfall pipes, one at 26-feet. in depth (Tanguisson) and the other 165-feet depth (Hagantna) off coast of GUAM
- **Commercial Diving Baja**, Baja, MEXICO – ROV audio and video and sonar inspection and survey on 700-meter long 3-meter ID ocean inlet cooling pipe for power plant.
- **American Marine**, Los Angeles, CALIFORNIA – ROV pilot to help recover hydrofoil off Catalina Express power catamaran after hitting underwater object in 250 ft. of water off Los Angeles Harbor, Los Angeles, California
- **Associated Underwater Services**, Lake Mead, NEVADA – Assisting diving contractor with inspection of explosives using Falcon ROV and dredging operations supervising for new 2.5-mile long underwater pipe and raw water inlet structure currently being built by Vegas Tunnel Constructors
- **San Diego County Water Authority** – Perform quarterly ROV audio and video inspections of 318-foot deep dam on tower gates, dam face, trash racks and outlet pips in hydro headworks structure
- **Hubbs-Sea World Research Institute**, San Diego, CALIFORNIA – ROV pilot on Search for lost ADCP instrument 6 miles off coast of California
- **Sweetwater Authority**, Sweetwater, California – ROV pilot on inspections for quagga mussels on dam, tower and old cofferdam
- **Archer – Western Contractors**, San Diego, CALIFORNIA – ROV pilot on audio and video inspection, side-scan sonar and bathymetric imaging of hydro electric project on Lake Hodges.

- **Divecon/Aqueos Commercial Diving Company**, Santa Barbara, CALIFORNIA – ROV pilot on search and recovery of body in 300 ft of water 2.5 miles offshore of Santa Barbara, California
- **Freeze and Nichols Engineering**, Austin, TEXAS – ROV pilot on audio and video inspection of largest arch dam in US at Buchanan Dam, Texas
- **City of Anaheim** (Utilities Department), Anaheim, CALIFORNIA – ROV pilot on audio and video inspection of outlet pipes and dam lines at Walnut Creek Reservoir, Anaheim, California
- **US Navy**, Santa Catalina Island, CALIFORNIA – Provided ROV support services for submarine recovery vehicle being developed for US Navy by Phoenix, Inc.

REFERENCES

Dan McCoy, Weston Solutions: (760) 795-6920

Lisa Prus, San Diego County Water Authority: (760) 233-3252

Michael Low, Principal Mining Engineer, Vulcan Materials: (858) 530-9484

Michael Fileccia, Engineer, City of Anaheim: (714) 765-4427

Javier De Jesus, Exxon/Mobil Pipeline: (713) 656-2244

Art Schmidt, Underwater Consultants International: (716) 439-5456

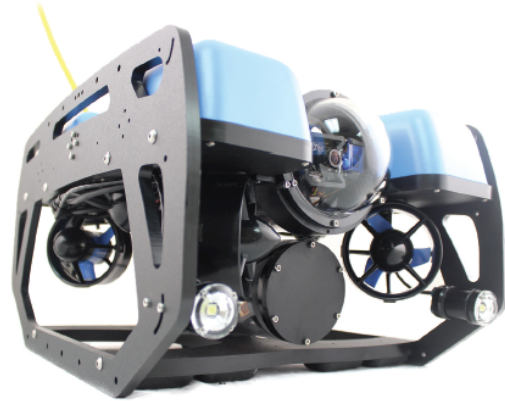
ROV Details

Equipment Specifications

Datasheet

Blue Robotics BlueROV2

High-Performance ROV



Ocean research, exploration, and adventure are all made easily accessible by our flagship product, the BlueROV2. It provides the capabilities of a high-end commercial mini-ROV at the price of the most basic commercial ROVs, making the BlueROV2 the world's most affordable inspection and research-class subsea vehicle.

The smooth, stable, and highly maneuverable ROV is comprised of six thrusters, a rugged frame, and quick-swappable batteries. Powerful but dimmable lights provide excellent illumination for the live HD video feed.

Like all Blue Robotics products, we created the BlueROV2 with high-quality parts, meticulous design, and rugged reliability with proven success in the field.

Equipped with six powerful T200 thrusters and Basic ESCs, the BlueROV2 has the best thrust-to-weight ratio in its class

to perform demanding tasks. It is ideal for operations in shallow to moderate waters, with a standard 100m depth rating and up to 300m tether lengths available.

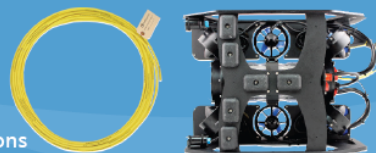
The BlueROV2 uses the open-source *ArduSub* software and PixHawk autopilot to provide autonomous capabilities rarely seen in mini-ROVs and hackability paralleled by none. Blue Robotics actively develops and updates its software to enhance the BlueROV2's functionality.

Your vehicle will arrive almost-ready-to-dive, with pre-built sub-assemblies and instructional materials to make the experience as straightforward and enjoyable as possible. Additional items including the topside computer, gamepad controller and batteries are not included.

At Blue Robotics, we are committed to creating quality products that are accessible to any explorer.

Product Features

- Live Low-Latency 1080p HD Video
- Highly Maneuverable Vectored Thruster Configuration
- Stable and Optimized for Inspection and Research-Class Missions
- Easy to Use, Cross-Platform User Interface
- Highly Expandable with Three Free Cable Penetrators
- T200 Thrusters and Basic ESCs
- Standard 100m Depth Rating and up to 300m Tether Available
- Battery Powered with Quick-Swappable Batteries for Long Missions
- Open-Source *ArduSub* Control Software and Open-Source Hardware



Dare to Explore



Blue Robotics BlueROV2 Technical Specifications

Revision 10/16

Physical

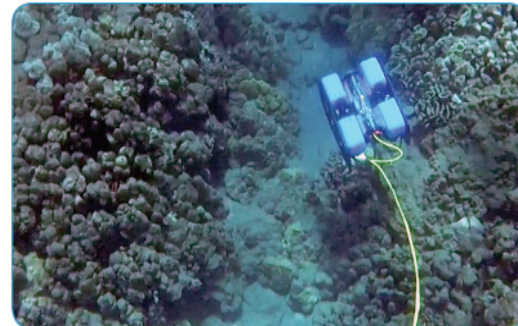
Length	457 mm	18 in
Width	338 mm	13.3 in
Height	254 mm	10 in
Weight in Air <i>(with Ballast)</i>	10-11 kg	22-24 lb
Weight in Air <i>(without Ballast)</i>	9-10 kg	20-22 lb
Net Buoyancy <i>(with Ballast)</i>	0.2 kg	0.5 lb
Net Buoyancy <i>(without Ballast)</i>	1.4 kg	3 lb
Watertight Enclosure Inner Diameter	102 mm	4 in
Watertight Enclosure Inner Length	298 mm	11.75 in
Cable Penetrator Holes	14 x 10 mm	14 x 0.4 in
Construction	HDPE frame, aluminum flanges/end cap, & acrylic tubes	
Main Tube <i>(Electronics Enclosure)</i>	Blue Robotics 4" Series w/ aluminum end caps	
Battery Tube	Blue Robotics 3" Series w/ aluminum end caps	
Buoyancy Foam	R-3318 urethane foam rated to 210 m	
Ballast Weight	6 x 200 g coated lead weights	
Battery Connector	XT90	

Performance

Maximum Rated Depth	100 m	330 ft
Maximum Tested Depth <i>(so far)</i>	130 m	425 ft
Maximum Forward Speed	1 m/s	2 knots
Thrusters	Blue Robotics T200	
ESC	Blue Robotics Basic 30A ESC	
Thruster Configuration	6 thrusters	
	- 4 Vectored	
	- 2 Vertical	
Forward Bollard Thrust	14 kgf	30 lbf
Vertical Bollard Thrust	9 kgf	20 lbf
Lateral Bollard Thrust	14 kgf	30 lbf

Tether

Diameter	7.6 mm	0.30 in
Length	25-300 m	80-980 ft
Working Strength	45 kgf	100 lbf
Breaking Strength	160 kgf	350 lbf
Strength Member	Kevlar with waterblock	
Buoyancy in Freshwater	Neutral	
Buoyancy in Saltwater	Slightly positive	
Conductors	4 twisted pairs, 26 AWG	



Lights

Brightness	2 or 4 x 1500 lumens each with dimming control
Light Beam Angle	135 degrees, with adjustable tilt

Camera

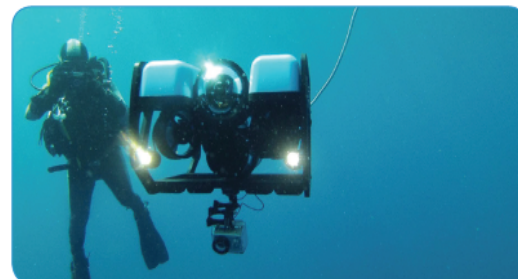
Camera	1080p digital
Camera Field of View	110 degrees horizontally
Tilt Range	+/- 90 degree camera tilt <i>(180 total range)</i>
Tilt Servo	Hitec HS-5055MG

Sensors

- 3-DOF Gyroscope
- 3-DOF Accelerometer
- 3-DOF Magnetometer
- Internal barometer
- Blue Robotics Bar 30 Pressure/Depth & Temperature Sensor *(external)*
- Current and Voltage Sensing
- Leak Detection

Battery *(can be changed in about 30 seconds)*

Battery Life <i>(Normal Use)</i>	2-3 hours w/ 18Ah battery
Battery Life <i>(Light Use)</i>	4-6 hours w/ 18Ah battery





Little Benthic Vehicle

LBV300-5 MiniROV Systems

The LBV300-5 Series is our most versatile system offering an incredibly stable platform and a wide range of application possibilities.

- 300 meter (1,000ft) depth rating and tether lengths to 350 meters (1,150ft)
- 5 Powerful brushless DC thrusters with individual oil-compensators
- 4-axis maneuverability including dual vertical thruster configuration
- Ultra small diameter high strength, durable, low drag tether
- Crystal clear video and high resolution low light color camera
- 270° range of view with high intensity LED array tracking camera
- Patented hull crawling skid option for increased capability in currents up to 5 knots
- Extensive range of options including laser scaling, grabber, zoom, LED lighting and more



The LBV300-5 Series of MiniROVs has become the world's number one choice for maritime security by Militaries, Police, and Port Security professionals due primarily to its unmatched levels of stability and versatility. Dual-vertical thrusters provide extreme power allowing for larger sensors packages. Add the revolutionary Crawler Skid and the LBV300-5 can operate on ship hulls and other relatively flat surfaces in currents exceeding five knots.



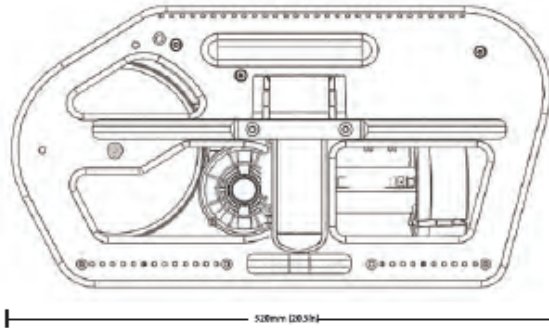
www.SeaBotix.com



LBV300-5 Specifications

General

Depth Rating:	300m (1,000ft)
Length:	520mm (20.5in)
Width:	445mm (17.5in)
Height:	260mm (10.2in)
Diagonal:	565mm (22.2in)
Weight in air:	13kg (28.7lbs)

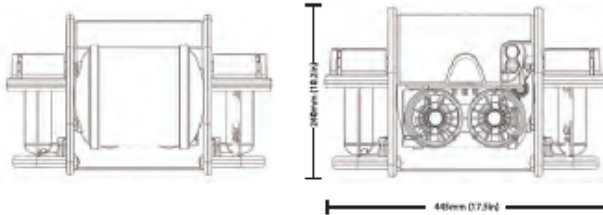


Thrusters/Performance

Configuration:	2 forward, 2 vertical, 1 lateral
Motor Type:	Brushless DC direct drive
Bollard Thrust:	4.9kgf (10lbf) each
Speed at Surface:	2.8 knots (1.44m/sec)
Max Operating Current:	2 knots (1.03m/sec)

Cameras/Lighting

Camera:	520 line High resolution color
Range of View:	270 Degrees
Focus:	Manual (90mm to infinity)
Format:	NTSC or PAL
Lighting:	Internal 700 Lumen LED array Tracks color camera



Control System

Configuration:	Rugged case with weatherproof monitor and removable operator control unit
Monitor:	38cm (15") LCD
Power Requirement:	1,000 watts, 100-130/200-240 VAC
Safety:	Isolated input, circuit breaker, LIM, leak monitor Meets & exceeds AODC 035 "Code of Practice for the Safe use of Electricity in Water"
Auto Functions:	Depth, heading, trim
Video Overlay:	Depth, heading, lights, thruster gain, turns counter, camera angle, time, date and user programmable characters

Tether/Reel

Diameter:	8mm (0.3in) nominal
Length:	150m (500ft) standard
Working Load:	100kgf (220lbf)
Breaking Strength:	700kgf (1,543lbf)
Buoyancy:	Neutral in fresh, slightly positive in seawater
Reel:	Heavy duty with slip ring

Options

Tether Lengths:	150-350m (500-1,150ft)
Grabber:	Three jaw, interlocking small, interlocking large, parallel, cutter
Sonars:	Multi-beam, scanning, profiler
Tracking:	USBL positioning system
Lights:	Multiple head ultra bright LED
Console:	Integrated navigation/control console
Other:	Crawler skid, thickness gauge, CP, radiation, laser scaling, zoom camera and more



SeaBotix Inc. • 2877 Historic Decatur Rd, Suite 100, San Diego, CA 92106, USA • Tel: +1 619 450-4000 • Email: info@SeaBotix.com



MicronNav

Features

- Quick and easy to mobilise
- Integrated motion sensor in dunking transducer
- Seamless integration into Tritech's Seanet Pro software control system
- Connects via the "aux port" of Tritech's sonar systems - no need for extra umbilical communications channels

Applications

- Mini/Micro ROV navigation system
- Diver tracking system (optional transponder mode)
- AUV tracking system (optional transponder mode)
- ROV location beacon (optional transponder mode)



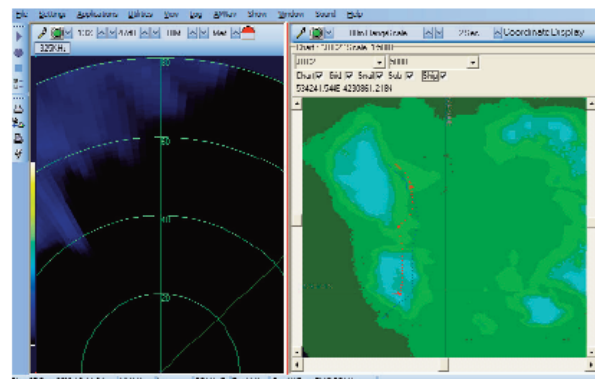
Picture of MicronNav100 Interface Unit, USBL Dunking Transducer and MicronNav subsea unit.

The MicronNav system is an innovative USBL positioning system designed for small vehicles. It has been primarily designed to be used in conjunction with the Tritech Micron/SeaSprite sonar and other Tritech Micro products. This concept will also be adapted and integrated into the Tritech SeaKing range of products in the future.

The system comprises a subsea MicronNav unit, a surface USBL transducer unit with integral Magnetic Compass and Pitch/Roll sensors, a surface MicronNav100 Interface module and operating software under control of the customer host PC/Laptop.

MicronNav uses the very latest in Spread Spectrum acoustic technology. This provides a robust method for communications between the dunking transducers and the vehicle responder/transponder.

It can be used as a stand-alone system, powered by and communicating with the MicronNav



Sonar and navigation display, bitmap chart display with ship(blue) and ROV(red) "snail trails"

through a spare RS232 port on the ROV (at 9600 baud) or RS485 through a spare screened twisted pair in the umbilical. Alternatively it can be integrated with the Tritech Micron/SeaSprite Sonar communicating via the sonar RS232 aux port.

The USBL transducer is designed to provide 180 degree hemispherical coverage below the transducer, allowing vehicle tracking in very shallow water. The design of the ROV MicronNav transducer provides omni-directional coverage.



Specifications

System:

Positioning Technology	Ultra Short Baseline (USBL)
Frequency Band	20-28KHz
Tracking Range	500m (1,640ft) typical Horizontal, 150m (492ft) typical Vertical
Range Accuracy	+/- 0.2 meters typical (7.87 inches)
Bearing Accuracy	+/-3 degrees
Position Update Rate	0.5 Seconds – 10 Seconds
Targets Tracked	1 responder and up to 15 transponders
Data Display	Polar and Cartesian display with optional user bitmap chart
Data Recording	All Data recorded in SeaNet Format for Replay or Analysis
Surface Navigation	SeaNet GPS and Heading/Attitude Sensors supported. Position of Surface vehicle displayable.
Surface Station Power	110-220V AC or 9-30V DC

USBL Transducer:

Operating Beamwidth	180 degrees
Maximum Diameter	110mm (4.33 inches) including mounting plate
Body Tube Diameter	75mm (2.95 inches)
Maximum Height	270mm (10.63 inches)
Weight in Air	1.96kg (3lbs 15oz)
Weight in Water	810g (1lb 12oz)

MicronNav Unit (fitted on vehicle):

Beamwidth	Omni directional Transducer
Power Requirement	12-50V DC
Power Consumption	3.5W Transmitting 280mW Standby
Transmitter Source Level	169dB re 1uPa @ 1M
Interface	RS232 or RS485
Depth Rating	750m (2,460ft)
Maximum Diameter	56mm (2.20 inches)
Maximum Height	76mm (2.99 inches)
Weight in Air	225g (7.9oz)
Weight in Water	70g (2.5oz)

All specifications are subject to change in line with Tritech's policy of continual product development.

Ref: EDS-USB-001.3



Tritech International Limited

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E-mail: sales@tritech.co.uk
Website: www.tritech.co.uk

Marketed by:



Micron DST Sonar Ultra Compact CHIRP Digital Sonar



Features

- Extremely compact - our smallest sonar yet
- Digital CHIRP system
- Full software functionality
- True acoustic zoom
- Instant scan reversal and sector scan options
- Inverted mode operation
- Hard boot protection for transducer
- Cost effective and reliable
- Target size measurement
- 750m depth rating
- Simple to operate

Applications

- Small ROV obstacle avoidance and target recognition
- AUV guidance



If the new generation of very small and low cost ROVs are to develop their full potential it is essential they are equipped with the vital tools and sensors expected on larger ROVs.

Along with the camera, the most important sensor for any vehicle is its obstacle avoidance sonar. The all new Tritech Micron DST (Digital Sonar Technology) sets new standards in compact sonar technology. It is the smallest digital CHIRP sonar in the world. CHIRP technology dramatically improves the range resolution compared with conventional sonars - it is a feature normally associated with much larger, more expensive systems.

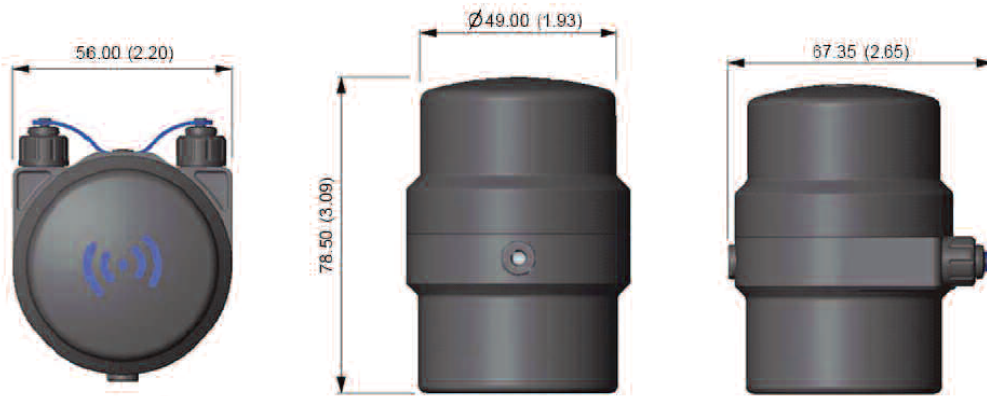
Based on experience gained from Tritech's world class range of SeaKing and SeaPrince sonars, the Micron DST incorporates the most advanced acoustic features and software available today. The sonar can be controlled by a customer supplied PC or laptop and it can be configured for either RS232 or RS485 protocols. Micron DST has an auxiliary port to allow it to interface with other Tritech sensors.

This sonar incorporates the very latest surface mounted digital electronics and many software features normally found only on full sized commercial systems. Tritech believe that although the Micron DST is small in both size and cost it should offer the full range of functionality expected from a professional product.

the finest range of high technology subsea products in the world



Specifications



Operating frequency	Chirped 650kHz to 750kHz Other frequency bands available on request
Beamwidth, vertical	35°
Beamwidth, horizontal	3°
Range settings	From 2m (6ft) to 75m (250ft)
Scan sectors	User selectable up to 360° continuous
Step speed	Normal, Fast or Very Fast
True acoustic zoom	Yes
Instant reversal	Yes
Image measurement	Yes
Inverted head operation	Yes
Power requirements	12V - 50V @ 4 VA (Average)
Data communication	RS 485 (twisted pair), RS 232 (via modem up to 115kb/s)
Communication requirements	Maximum cable length 1000 metres (using RS 485)
Topside control	Customer supplied PC or Laptop using standard serial comms port. Windows 2000 or XP or Vista Operating System.
Software	Tritech SeaNet(OEM) display and control or low level direct command protocol
Maximum diameter	56mm (2.20 inches)
Maximum height	78.5mm (3.09 inches)
Weight in air	324g (10.25 ounces)
Weight in water	180g (5.15 ounces)
Maximum operational depth	750m (2,460ft) standard (3000m - 9,842ft version available)
Operating temperature	-10°C to +35°C
Storage temperature	-20°C to +50°C

**NB The Tritech Micron DST is only for use on vehicles with voltage spike protection on power supplies and communication lines.*

All specifications are subject to change in line with Tritech's policy of continual product development.

Ref: EDS-SON-001.9



Tritech International Limited
Peregrine Road • Westhill Business Park • Aberdeen
AB32 6JL • United Kingdom

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E-mail: sales@tritech.co.uk
Website: www.tritech.co.uk

Appendix B – Proposal Forms

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

ADDENDUM No. 1

TO REQUEST FOR PROPOSALS

FOR F_____

**THE PROPOSER SHALL EXECUTE THE CERTIFICATION AT THE END OF THE
ADDENDUM AND SHALL ATTACH THE ADDENDUM TO THE PROPOSAL (NOT TO BE
INCLUDED AS PART OF THE PAGE COUNT).**

DATED: _____

Jeanette Cotinola, CPCM

BIDDER'S CERTIFICATION

I acknowledge receipt of the foregoing Addendum No. 1 and accept all conditions contained herein.

DATED: August 17, 2022

BIDDER: SGS US West Coast, LLC.

BY: Scott Nordholm

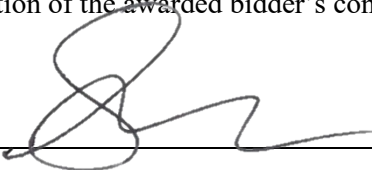
ACKNOWLEDGMENT OF INSURANCE REQUIREMENTS*

AND CERTIFICATION OF ABILITY TO PROVIDE AND MAINTAIN COVERAGES SPECIFIED

I, Scott Nordholm, the Marine Construction Manager
(President, Secretary, Manager, Owner or Representative)

of SGS US West Coast, LLC., certify that the Specifications and
(Name of Company, Corporation or Owner)

General Provisions regarding insurance requirements as stated below, for the Purchase Contract designated NIB2016-001, have been read and understood and that our firm, as bidder on this project, is able to provide and maintain the coverage as specified below. If the awarded bidder fails to provide said coverage, this shall be sufficient cause for contract termination. Failure to maintain said coverage shall result in termination of the awarded bidder's contract.

 _____ Date: August 17, 2022

(Signature of President, Owner, or Authorized Company Representative)

Return the signed Acknowledgement with bid documents.

Proposer must meet all insurance requirements as outlined below, which must be executed and submitted with the proposal. Certificate of Insurance must only be completed by the Awarded Contractor. Proposers will need to submit proof of insurance with the proposals and list any exclusions for SOCWA to determine actual insurance coverages. Any exclusions shall be reviewed and approved by SOCWA in writing.

These forms will be submitted with the electronic proposals.

The coverage amounts of said insurance will not be less than the following:

- 1) **General Liability** – Bodily, Personal Injury; Property Damage = \$ 3,000,000
- 2) **Auto Liability** – Bodily, Personal Injury; Property Damage = \$ 1,000,000
- 3) **Employers Liability** – Bodily Injury by Accident = \$ 3,000,000
- 4) **Employers Liability** – Bodily Injury by Disease = \$ 3,000,000
- 5) **Worker's Compensation** = \$ 1,000,000
- 6) **Pollution Liability** = \$ 1,000,000

Minimum scope of coverage. Commercial general coverage shall be at least as broad as Insurance Services Office Commercial General Liability occurrence form CG 0001 or GL 0002 (most recent editions) covering comprehensive General Liability and Insurance Services Office form number GL 0404 covering Broad Form Comprehensive General Liability.

Automobile coverage shall be at least as broad as Insurance Services Office Automobile Liability form CA 0001 (ed. 12/90) Code 8 and 9. No endorsement shall be attached limiting the coverage.

Appendix B

Additional requirements. Each of the following shall be included in the insurance coverage or added as an endorsement to the policy:

The Authority and its officers, employees, agents, and volunteers shall be covered as additional insureds with respect to each of the following: liability arising out of activities performed by or on behalf of Provider, including the insured's general supervision of Provider; products and completed operations of Provider; premises owned, occupied, or used by Provider; and automobiles owned, leased, or used by the Provider. The coverage shall contain no special limitations on the scope of protection afforded to The Authority or its officers, employees, agents, or volunteers.

The insurance shall cover on an occurrence or an accident basis, and not on a claims-made basis.

An endorsement must state that coverage is primary insurance with respect to the Authority and its officers, officials, employees, and volunteers, and that no insurance or self-insurance maintained by the Authority shall be called upon to contribute to a loss under the coverage.

Any failure of Provider to comply with reporting provisions of the policy shall not affect coverage provided to The Authority and its officers, employees, agents, and volunteers.

An endorsement shall state that coverage shall not be canceled except after thirty (30) days' prior written notice by certified mail, return receipt requested, has been given to the Authority.

Provider shall notify The Authority within 14 days of notification from Provider's insurer if such coverage is suspended, voided, or reduced in coverage or in limits.



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

8/15/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Wilson, Washburn & Forster Insurance 16505 NW 13th Ave Miami FL 33169	CONTACT NAME: PHONE (A/C, No, Ext): 305-666-6636		FAX (A/C, No): 305-662-7778
	E-MAIL ADDRESS: certificates@wwfins.com		
INSURER(S) AFFORDING COVERAGE			NAIC #
INSURER A: National Casualty Co.			11991
INSURED Subsea Global Solutions Holdings, LLC 12062 NW 27 Ave Miami FL 33167	INSURER B: Signal Mutual Indemnity Assoc.		
	INSURER C:		
	INSURER D:		
	INSURER E:		
	INSURER F:		

COVERAGES

CERTIFICATE NUMBER: 1782832906

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> HIRED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> NON-OWNED AUTOS						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	WCSIG35045301	7/31/2022	7/31/2023	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
B	Longshore & Harbor Worker			NO-73830	7/31/2022	7/31/2023	Amount: Statutory Limit

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Named Insureds: Subsea Global Solutions Holdings, Inc.
 Subsea Global Solutions, Inc.
 SGS US East Coast, LLC
 SGS US West Coast, LC
 SGS Tampa, LLC
 SGS US Gulf Coast Diving, LLC
 SGS Port Angeles Diving, Inc.
 Waiver of subrogation applies for South Orange County Wastewater Authority

CERTIFICATE HOLDER**CANCELLATION**

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

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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WAIVER OF OUR RIGHT TO RECOVER FROM OTHERS ENDORSEMENT

We have the right to recover our payments from anyone liable for an injury covered by this policy. We will not enforce our right against the person or organization named in the Schedule. (This agreement applies only to the extent that you perform work under a written contract that requires you to obtain this agreement from us.)

This agreement shall not operate directly or indirectly to benefit anyone not named in the Schedule.

Schedule

Blanket Waiver of subrogation as required by written contract

This endorsement changes the policy to which it is attached and is effective on the date issued unless otherwise stated.

(The information below is required only when this endorsement is issued subsequent to preparation of the policy.)

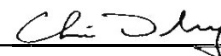
Endorsement Effective Date: 07/31/2022 Policy No. WCSIG35045301 Endorsement No.
Policy Effective Date: 07/31/2022 to 07/31/2023 Premium \$
Insured: Subsea Global Solutions Holdings, LLC

DBA:

Carrier Name / Code: National Casualty Company

WC 00 03 13
(Ed. 4-84)

Countersigned by





CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)
8/8/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Fisk Marine Insurance International, LLC 8110 Breakwater Drive New Orleans LA 70124	CONTACT NAME: Jodi Wibel PHONE (A/C, No, Ext): (504) 302-4400 E-MAIL ADDRESS: jwibel@fiskusa.com		FAX (A/C, No): (866) 543-4619
	INSURER(S) AFFORDING COVERAGE		
INSURED SGS US West Coast, LLC 1725 W Pier D Street Long Beach CA 90802	SUBSGLO-01		INSURER A : Great American Insurance Company INSURER B : Underwriters at Lloyd's INSURER C : Amguard Insurance Co. INSURER D : INSURER E : INSURER F :
			NAIC # 22136 15792 42390

COVERAGES

CERTIFICATE NUMBER: 317600987

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
B	GENERAL LIABILITY <input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> SRLL <input checked="" type="checkbox"/> Legal Liability GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC	Y	Y	OE22000175	7/31/2022	7/31/2023	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 300,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 \$
C	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input checked="" type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS	Y	Y	SUAU343376	7/28/2022	7/28/2023	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
B	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input checked="" type="checkbox"/> RETENTION \$ 25,000	Y	Y	OE22000176	7/31/2022	7/31/2023	EACH OCCURRENCE \$ 10,000,000 AGGREGATE \$ 10,000,000 \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) <input type="checkbox"/> Y / N If yes, describe under DESCRIPTION OF OPERATIONS below		N / A				<input type="checkbox"/> WC STATUTORY LIMITS <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
B A B	Maritime Employers Liability Vessel Pollution P&I	Y Y Y	Y Y Y	OE22000175 OMH 3080479-07 OE22000175	7/31/2022 7/31/2022 7/31/2022	7/31/2023 7/31/2023 7/31/2023	MEL Limits 1,000,000 Pollution Limits 1,000,000 P&I Limit per occur 1,000,000


DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

Additional Named Insureds include:
Subsea Global Solutions Holdings, LLC, Subsea Global Solutions, LLC, SGS US East Coast, LLC, SGS US West Coast, LLC, SGS Tampa, LLC, SGS US Gulf Coast Diving, LLC, Hydroweld USA, LLC, SGS Port Angeles Diving, Inc., SGS Saint John Diving, ULC, SGS Busan Diving, Ltd., SGS Brasii LTDA, Whale Shark Environmental Technologies ULC, SGS Vancouver Diving, ULC, SGS Caribbean N.V., Miami Diver International S.A., Miami Diver Panama S.A., and SGS Caribbean NV – Trinidad.

General Liability policy contains the following endorsements: blanket additional insured and blanket waiver of subrogation as required by written contract, sudden and accidental pollution, contractual liability, ship repairers legal liability, wharfingers legal liability, traveling workman extension, charterer's legal See Attached...

CERTIFICATE HOLDER

CANCELLATION

South Orange County Wastewater Authority 34156 Del Obispo Street Dana Point, CA 92629	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
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ADDITIONAL REMARKS SCHEDULE

AGENCY Fisk Marine Insurance International, LLC		NAMED INSURED SGS US West Coast, LLC 1725 W Pier D Street Long Beach CA 90802	
POLICY NUMBER		EFFECTIVE DATE:	
CARRIER	NAIC CODE		

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,
FORM NUMBER: 25 **FORM TITLE:** CERTIFICATE OF LIABILITY INSURANCE

liability, XCU, primary and non-contributory, action-over indemnity buyback and non-owned watercraft exclusion deleted. P&I policy contains blanket waiver of subrogation, in Rem, collision and towers liability, cargo legal liability, cross liabilities clause, third party removal of wreck, primary insurance end't. MEL policy includes voluntary compensation, Jones Act, DOHSA, TWM&C, blanket waiver of subrogation and In rem endorsements. Excess policy is follow form over MGL, Auto, EL (\$1MM limits, eff. 7/31/22- 7/31/23, National Casualty Co.), MEL, VPOL and P&I policies. Hull & Machinery policy Great American Insurance Co. #OMH2205776-07 Eff. 7/31/22- 7/31/23. Contractors pollution (Environmental Legal Liability) policy #ICELLUW00121307 \$1MM limit per occurrence/ \$1MM policy aggregate, eff. 4/29/22- 4/29/23 Ironshore Specialty Insurance Co.

Appendix B

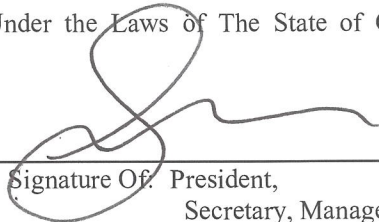
Non-Collusion
Affidavit

State Of California in the County Of Los Angeles

Scott Nordholm, Being First Duly Sworn,
Deposes and Says That He or She Is _____
Maximo Construction Manager Of
SGS US West Coast, LLC. The Party Making The

Bid, That The Bid Is Not Made In The Interest Of, Or On Behalf Of, Any Undisclosed Person, Partnership, Company, Association, Organization, Or Corporation; That The Bid Is Genuine And Not Collusive Or Sham; That The Bidder Has Not Directly Or Indirectly Induced Or Solicited Any Other Bidder To Put In A False Or Sham Bidder, And Has Not Directly Or Indirectly Colluded, Conspired, Connived, Or Agreed With Any Bidder Or Anyone Else To Put In A Sham Bid, Or That Anyone Shall Refrain From Submitting A Bid; That The Bidder Has Not In Any Manner, Directly Or Indirectly, Sought By Agreement, Communication, Or Conference With Anyone To Fix The Bid Price Of The Bidder Or Any Other Bidder, Or To Fix Any Overhead, Profit, Or Cost Element Of The Bid Price, Or Of That Of Any Other Bid, Or To Secure Any Advantage Against The Public Body Awarding The Contract Of Anyone Interested In The Proposed Contract; That All Statements Contained In The Bid Are True; And, Further, That The Bidder Has Not, Directly Or Indirectly, Submitted His Or Her Bid Price Or Any Breakdown Thereof, Or The Contents Thereof, Or Divulged Information Or Data Relative Thereto, Or Paid, And Will Not Pay Any Fee To Any Corporation, Partnership, Company Association, Organization, Bid Depository, Or To Any Member Or Agent Thereof To Effectuate A Collusive Or Sham Bid.

I Declare Under Penalty of Perjury Under the Laws of The State of California That The Foregoing Is True and Correct

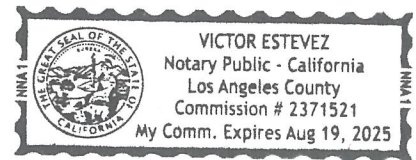


Signature Of: President,
Secretary, Manager,
Owner, or
Representative

Subscribed And Sworn to Before Me
This 18, Day Of AUGUST 20 22.



Signature Of Notary Public in And For
The County Of LOS ANGELES State Of CA



All Signatures Must Be Witnessed by Notary

Appendix B

This form is required.

Public Works Contractor Registration Form

Proposer Name: SGS US West Coast, LLC.

Contact Title and Name: Scott Nordholm, Marine Construction Manager

Email Address: socalmarineconstruction@sgsdiving.com

Address: 1725 W Pier D Street, Long Beach, CA 90802

Phone: (714) 869-7698 **Fax:**

Proposer(s) (List all legal entities being pre-qualified, including subcontractors.)			
Discipline (i.e. general contractor, architect, engineer, paving subcontractor, etc.)	Name	Legal Entity (i.e. corporation, partnership, sole proprietor)	Department of Industrial Relations Registration number
General Contractor	SGS US West Coast, LLC.	LLC	1000024432

COST PROPOSAL



UNDERSEA GRAPHICS INC.

5436 SHARYNNE LANE, TORRANCE, CA 90505
310-308-7162 or 310-318-1774
underseagraphics@earthlink.net

COST PROPOSAL

Thank you for allowing us the opportunity to bid on your RFP for Ocean Outfall External Inspection and Condition Survey.

Our Total Cost for this bid, not including additional work, is \$65,000.

Our billable rates are shown in the table below.

Itemized Cost List	Per Diem	Per Hour
Mobe/Demobe	\$4000	
Support Vessel and Submersible with Tool	\$13,500	
Support Vessel and Submersible without Tool	\$9500	
Prep Days at dock	\$2500	
Office Work includes video editing/reviewing and report writing	\$480	\$60.00
Licensed Captain	\$450	\$56.25
Deckhand	\$400	\$50.00
Dive Foreman	\$500	\$62.50
Submersible Pilot	\$1000	\$125.00

Curt Siverts
President
5436 Sharynne Lane
Torrance, CA 90505
underseagraphics@earthlink.net
310-308-7162


Curt Siverts, President

Agenda Item

6.B.

Budgeted: No
Budget amount: N/A
Line Item: N/A
Legal Counsel Review: No
Meeting Date: September 1, 2022

TO: Board of Directors

FROM: Betty Burnett, SOCWA General Manager

STAFF CONTACT: Amber Baylor, Director of Environmental Compliance

SUBJECT: Stanford Wastewater Based Epidemiology SCAN Program Engagement [PC 2, 15 and 17]

Summary

At the 2022 CASA Conference, Alexandria Boehm, Engineering Professor at Stanford, provided a presentation on the past and current work on the Sewer Coronavirus Alert Network. The update included a request for sampling at facilities outside of the Bay Area. The SCAN program has private funding for support through January 2024. The only cost for Member Agency engagement is for sampling and shipping three times per week to the contract lab for SCAN. There also may be potential for a stipend for this engagement. The request today is for discussion on sampling coordination for interested facilities within the ten wastewater treatment facilities under permit through SOCWA.

Discussion/Analysis

SOCWA began wastewater-based epidemiology (WBE) first through the commercial company, Biobot in March 2020. SOCWA then received support from South Coast Water District to sample for COVID-19 in the sewershed in partnership with the Orange County Health Care Agency (OCHCA) who processed all the extracted samples and submitted the results to the Center for Disease Control and Prevention (CDC). There was no comprehensive report provided to date, but a dashboard was created for this effort where real-time results could be viewed to understand trending. The dashboard also included variants that were starting to emerge.

The current effort would include SARS-COV-2 surveillance, influenza, and emerging trends in other public health strains, like monkeypox. To view the current WBE surveillance program and available dashboard for SCAN, please visit: <https://wastewaterscan.org/>

There are fifteen states, including California, in the SCAN program across the United States and eighteen sampling locations across California. The goal of the SCAN program is to further develop metrics to serve as an early warning indicator of emerging public health trends in the community. Due to the reduction in clinical testing, the SCAN program offers a tool for public health agencies and the community to understand what personal precautions could be warranted in the local society based on emerging trends from the sewer network. SOCWA Staff sees value

in the scientific partnership at this level and is requesting concurrence of the Project Committees for each plant facility to participate at CTP, RTP and JBL with a request of interest to the other 7 wastewater facilities under permits through SOCWA.

Advisory Committee Review

No previous review for engagement to date.

Prior Related Project Committee or Board Action(s)

The SOCWA Board previously requested a report of the information being relayed to OCHCA. SOCWA staff coordinated to provide the data for viewing on a dashboard like the SCAN dashboard that will be used for this reporting effort.

Fiscal impact

SOCWA samples the Regional, Coastal, and JB Latham facilities between 5 and 7 days a week depending on the facility's compliance needs. The SCAN project is requesting sampling three days per week. There will be minimal additional sampling time required and minimal administrative oversight due to the almost real-time results accessible through the public dashboard system.

Recommended Action: Staff is seeking concurrence of the Project Committees for each plant facility to participate at CTP, RTP and JBL in sampling for the SCAN project with a request of interest to the other 7 wastewater facilities under permits through SOCWA [PC 2, 15 and 17]

Agenda Item

6.C.

Budgeted: N/A
Budget amount: N/A
Line Item: Use Audit
Legal Counsel Review: No
Meeting Date: September 2, 2022

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Amber Baylor, Director of Environmental Compliance

SUBJECT: Flows and Solids Data for FY 2021-22

Summary

The Use Audit flow allocation methodology has relied on historical practice for allocation of costs. The intent of this agenda item is to review the methodology per Project Committee (PC) which was presented to the Engineering Committee on August 11, 2022, for review, comment, and approval for use in the annual Use Audit for FY 2021-22. No additional changes to the Use Audit data were requested by Engineering Committee members and through discussion the tables were updated for clarity and consistency.

Results

Captured herein are the methodologies employed and the results by member agency based on the raw and calculated data. Please note that PC5 and PC24 are attributed to fixed costs.

PC2

Member agency average flows for the Fiscal Year (FY) were used in the flow allocation and applied proportionally from the total combined flow from each tributary trunk line. The PC2 use audit uses FY flows and three-year FY average solid loadings to reconcile the budgeted amounts. Solids loadings are calculated from adding the average FY BOD and TSS and dividing by 2 and then multiplying the result by the flow and the 8.34 pounds conversion factor. In March 2018, PC2 members MNWD and Santa Margarita Water District (SMWD) came to an agreement on how to allocate solids for budgeting and use audit purposes. The method captures the influent loading at Plant 3A as it was recognized that this allocation would isolate MNWD's solids contributions to JB Latham (JBL) to a single variable. SMWD solids to JBL would then be the balance of solids contributed by the Oso Creek Water Reclamation Plant, 3A and any other discharges to the Oso Trabuco line to JBL. Summary results for PC2 are included in Table 1. The total sum of the metered flows on the line influent into the JBL facility were 6.96 mgd. Calculated values with the 1.4 mgd constant from MNWD is 7.496 mgd. Percent difference between metered and billing flows were within 10%.

Please note that MNWD had no requests for changes with the total billing flow and solids numbers but asked why solids numbers doubled from budget to actuals. There are two columns in the FY 2021-22 budget titled "Average Solids based on Actual Metered flows" and "Average Solids Based

on MNWD Flow Constant (pounds)". The spreadsheet was updated to contain the latter column as a comparison but did not change the calculated solids loading presented at the Engineering Committee for FY 2021-22.

PC2 - JB Latham Plant					
<u>Liquids Summary (mgd)</u>					
	2021-2022	2021-2022	2021-2022	2021-2022	Total
Member	Budgeted	Budgeted	Total	Total	Percent
<u>Agency</u>	<u>Flow (mgd)</u>	<u>Percent</u>	<u>Avg. Metered Flow (mgd)</u>	<u>Billing Flow (mgd)</u>	<u>To Date</u>
CSJC	2.14	36.61%	2.157		
MNWD	1.40	23.62%	Constant	1.400	18.68%
SCWD	1.81	27.65%	1.614	1.614	21.53%
SMWD	1.62	12.11%	3.725	4.482	59.80%
	6.97	100.00%	7.496	7.496	100.00%

Please refer to the MNWD & SMWD Agreement from 2018 for flow/solids splitting in the Oso-Trabuco line.

<u>FY 21-22 Solids Summary Loading (mgd)</u>					
	2021-2022	2021-2022	2021-2022	Total	Total
Member	Budgeted	Budgeted	Total	Avg. Loadings	Percent
<u>Agency</u>	<u>Loading (pounds)</u>	<u>Percent</u>	<u>Avg. Loadings</u>	<u>Billing Loading</u>	<u>To Date</u>
CSJC	6046.63	23.90%	6339		
MNWD	5612.97	21.06%	Constant	5264	17.83%
SCWD	6238.48	18.08%	6035	6035	20.44%
SMWD	8548.07	36.96%	17147	18222	61.73%
	26446.15	100.00%	29520	29520	100.00%

Table 1: PC2 Liquids and Solids Summary Table

PC12

The PC12 method of production is detailed by member agency in the following narrative. San Juan Capistrano is the acre-foot sum of the Rosebaum Well, the Mission Street Well, and the total reclaimed water from the SMWD/City of San Juan Capistrano (CSJC) intertie. For MNWD it is the amount of reclaimed water produced from the Regional Treatment Plant (RTP) and the 3A Treatment Plant (split with SMWD). South Coast Water District (SCWD) is the total reclaimed water produced from the Coastal Treatment Plant (CTP). SMWD is the combined sum of reclaimed water produced from the 3A Treatment Plant (split with MNWD), the Oso Creek Water Reclamation Plant (OCWRP), the Chiquita Water Reclamation Plant (CWRP), and the Nichols Water Reclamation Plant (NWRP). The Trabuco Canyon Water District (TCWD) is reclaimed water produced from the Robinson Ranch Water Reclamation Plant (RRWRP). Summary results for PC12 are included in Table 2.

PC 12 Recycled Water		
Master Recycled Water Permit		
2021-2022		
Member Agency	Region 9 Recycled Production FY 2021-2022	% RW Produced FY 2021-2022
	acft	%
MNWD	6812	43.18
SCWD	1100	6.97
SMWD	7305	46.31
TCWD	557	3.53
Total	15774	100.00

Table 2: PC12 Liquids and Solids Summary Table

PC15

Due to the lack of solids handling capacity at the Coastal Treatment Plant (CTP), allocation methodology is based on flows to the treatment plant. In addition, there is no current flow meters installed to account for any flow sent to CTP from MNWD so no flow is being accounted for in this PC flow allocation methodology. The City of Laguna Beach (CLB) is the average annual flow into CTP (metered). The Emerald Bay Services District (EBSD) is the average annual flow into CTP (calculated from monthly meter read from the lift station divided by the days in the month). The South Coast Water District (SCWD) is the average annual flow into CTP (metered). The meter calibration is performed annually in June. Summary results for PC15 are included in Table 3.

PC 15 Actual Flows		
FY 2021-2022		
Coastal Treatment Plant		
Member Agency	Plant Flows MGD	Plant Flow Percent
CLB	1.459	53.81
EBSD	0.064	2.36
SCWD	1.188	43.83
MNWD	0.00	0.00
Total	2.71	100.00

Table 3: PC15 Liquids Summary Table

PC17

PC17 has liquid and solids contribution. The liquid flow allocation is based on influent flow to the plant. The influent flow is solely contributed by the MNWD. Due to liquid flow from CTP, the centrate flow is divided by 5 and distributed to each agency then summed to create a total liquid flow to the RTP. The flows are then distributed on a proportional basis. The solids contribution is based on the total daily average pounds contributed by each agency distributed proportionally. Additional El Toro Water District (ETWD) solids samples were programmed into the report. The meter calibration is performed annually in June. Summary results for PC17 are included in Tables 4 and 5.

PC 17 Liquids Regional Treatment Plant FY 2021-2022				
Member Agency	Plant Flow (MGD)	Centrate Flow (MGD)	Total Flow (MGD)	Liquid Flow (%)
CLB	0.00	0.015157	0.0082	0.110449
EBSB	0.00	0.000667	0.0000158	0.000213
SCWD	0.00	0.012304	0.0054	0.073032
ETWD	0.00	0.018058	0.0181	0.244546
MNWD	7.28	0.069068	7.3526	99.57176
Total	7.28	0.115254	7.38427	100.00

Table 4

PC 17 Solids Regional Treatment Plant FY 2021-2022		
Member Agency	#/Day	%
CLB	4548.86	13.13
ETWD	5262.45	15.19
EBSB	200.2514	0.58
MNWD	20943.3673	60.45
SCWD	3693.1194	10.66
Total	34648.04	100.00

Table 5

Table 4 & 5: PC17 Liquids and Solids Summary Tables

Previous Committee Review

The flow and solids data for FY 2021-22 was provided to Engineering Committee on August 11, 2022. No additional comments that would change the allocations were received.

Recommended Action: Information item.

Agenda Item

6.D.

Legal Counsel Review: No

Meeting Date: September 1, 2022

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

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jim Burror, Director of Operations

SUBJECT: Renewal of MSDS Online and 24/7 On Call Services with VelocityEHS for \$4,907.00 [Project Committee Nos. 2, 15, and 17]

Summary

SOCWA uses VelocityEHS to comply with OSHA Hazard Communication Standard, 29 CFR 1910.1200, paragraph(g)(8). This OSHA requirement is for SOCWA to [per 29 CFR 1910.1200] *maintain in the workplace copies of the required safety data sheets for each hazardous chemical, and shall ensure that they are readily accessible during each work shift to employees when they are in their work area(s)*. Staff requests the Board approve the annual renewal for \$4,907.00.

Discussion/Analysis

SOCWA has 915 chemicals to be tracked to comply with OSHA requirements. MSDS Online is the online database system, and VelocityEHS also provides a 24/7 call center (including an emergency hotline) with access to SOCWA's chemical database and site information. This service includes the following features and services:

- 24/7 access to the SOCWA safety data sheet (SDS) database, including millions of other industry documents (provides quick access to SOCWA's database and VelocityEHS's database for assessing and adding new chemicals)
- Meets key compliance requirements of hazard communication (OSHA / WHMIS / GHS) standards (new pictograms and descriptions)
- Notifies supervisors of potential hazards of new chemicals being requested to be used onsite prior to employee usage/exposure
- Complies with employee 24/7 Right-to-Know access
- Provides employee support for secondary labeling, safe chemical handling, PPE requirements, etc.
- Eliminates time-consuming efforts to print and publish new or updated SDS sheets for each work location and for employee vehicles
- Improves chemical management with greater container-level control over the location, status, and risks associated with chemical products at each facility
- Quickly access and manage SDSs and chemical inventory information even while the internet is offline
- Supports management efforts to perform chemical risk assessments
- Identify products as well as ingredients that are regulated on various state, federal, and international hazardous substance lists

The renewal is the form of exercising an option for the third year of the three-year contract. The total value of the three-year Contract is \$ 14,721.00, with this additional 1-year at \$4,907.00. This includes \$3,957.00 for MSDS Online and \$950.00 for 24/7 on-call and emergency response services.

Prior Related Project Committee or Board Action(s)

None

Fiscal Impact

Where a Discretionary and Non-Discretionary Contractual Agreement with a vendor exceeds \$50,000, the award is subject to review and approval by the Board of Directors. The total value of the past contracts is nearing the \$50,000 limit. The total value of the renewal contracts to date is \$21,749.00. This contract approval will increase the total contracted value with VelocityEHS to \$26,656.00.

The allocations for the third year of this Contract by member agency are shown below for each Project Committee and Project Committee member agency:

PC2-JBL	Total	Common Allocation
MNWD	\$365.57	22.35%
SCWD	\$399.43	24.42%
SMWD/CSJC	\$870.67	53.23%
Subtotal	\$1,635.67	100.00%

PC15-CTP	Total	Common Allocation
CLB	\$620.08	37.91%
EBSB	\$48.91	2.99%
MNWD	\$478.43	29.25%
SCWD	\$488.25	29.85%
Subtotal	\$1,635.67	100.00%

PC17-RTP	Total	Common Allocation
CLB	\$102.56	6.27%
EBSB	\$5.40	0.33%
ETWD	\$167.82	10.26%
MNWD	\$1,277.95	78.13%
SCWD	\$81.95	5.01%
Subtotal	\$1,635.67	100.00%

Agency Totals	Total
CLB	\$722.64
EBSB	\$54.30
ETWD	\$167.82
MNWD	\$2,121.95
SCWD	\$969.62
SMWD/CSJC	\$870.67
Totals	\$4,907.00

Recommended Action: Staff recommends that the Board of Directors authorize the General Manager to execute the third year of the 3-year contract with VelocityEHS for \$4,907.00, for a total contract amount not to exceed \$14,721.00.

Agenda Item

6.E.

Legal Counsel Review: No

Meeting Date: September 1, 2022

TO: PC-2, PC-15 & PC-17 Board of Directors
FROM: Betty Burnett, General Manager
STAFF CONTACT: Jim Burror, Director of Operations
SUBJECT: Aptean Tabware Software Renewal for \$41,822.32 [Project Committee Nos. 2, 15, and 17]

Summary

SOCWA uses Aptean's Tabware Software for its computerized maintenance management systems (CMMS). SOCWA needs to renew its hosting, license, subscription, and maintenance Contract annually. Staff requests the Board approves the annual renewal for \$41,822.32.

Discussion/Analysis

The Contract includes the following new/amended features and services.

- Unlimited Requestor utilization for multiple users. (The ability for all SOCWA employees to request a work order.)
- 14 concurrent user licenses for Tabware Technician.
- Technician daily and weekly maintenance schedule user interfaces.
- Tabware Xi access for Supervisory staff.
- Tabware Analytics, including data visualization for maintenance metrics.

This renewal is a Contract Amendment to the original Contract and past annual amendments. The total value of the amended Contract is \$140,995.52, with this additional 1-year at \$41,822.32.

Prior Related Project Committee or Board Action(s)

Aptean Tabware is a continuing service contract for computerized maintenance management.

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Fiscal Impact

The allocations of this amendment by member agency are shown below for each Project Committee and Project Committee member agency:

PC2-JBL	Total	Common Allocation
MNWD	\$365.57	22.35%
SCWD	\$399.43	24.42%
SMWD/CSJC	\$7,420.67	53.23%
Subtotal	\$1,635.67	100.00%

PC15-CTP	Total	Common Allocation
CLB	\$5,284.95	37.91%
EBSB	\$416.83	2.99%
MNWD	\$4,077.68	29.25%
SCWD	\$4,161.32	29.85%
Subtotal	\$13,940.77	100.00%

PC17-RTP	Total	Common Allocation
CLB	\$874.09	6.27%
EBSB	\$46.00	0.33%
ETWD	\$1,430.32	10.26%
MNWD	\$10,891.93	78.13%
SCWD	\$698.43	5.01%
Subtotal	\$13,940.77	100.00%

Agency Totals	Total
CLB	\$6,159.03
EBSB	\$462.83
ETWD	\$1,430.32
MNWD	\$18,085.37
SCWD	\$8,264.09
SMWD/CSJC	\$7,420.67
Totals	\$41,822.32

Recommended Action: Staff recommends that the Board of Directors approve an annual Contract renewal with Aptean for \$41,822.32 [Tabware Software].

Agenda Item

6.F.

Budgeted: Yes
Budget amount: \$71,004
Line Item: PC2, 15 &17 Lines 5025
Legal Counsel Review: No
Meeting Date: September 1, 2022

TO: Board of Directors

FROM: Betty Burnett, General Manager

STAFF CONTACT: Jim Burror, Director of Operations

SUBJECT: Cintas Corporation Extension to Uniform Rental and Laundry Service

Summary

The employee uniform rental and laundry service contract with G&K is expiring, and there is one more annual renewal option for the contract. This service is critical to providing employees with clean and proper personal protective equipment for employees at the treatment plants.

The proposed extension will have no change in costs.

Discussion/Analysis

As part of this agreement, Cintas provides and launders industrial work shirts, polo-style shirts, pants, coveralls, specialty flame-resistant safety clothing, lab coats, UV protective gear, towels, shop rags, and area mats.

SOCWA staff negotiated a no-cost change contract extension for the final year of the contract.

SOCWA expenses approximately \$6,000 per month for uniform rental and laundry service.

Fiscal Impact

None.

Recommended Action: Staff recommends that the Board of Directors authorize the General Manager to execute a one-year contract extension with Cintas Corporation at current prices (approximately \$6,000 per month).

Agenda Item

6.G.

Budgeted: Yes
Budget amount: \$5,000
Line Item: 05/24-5046-02
Legal Counsel Review: No
Meeting Date: September 1, 2022

TO: PC5 & PC24 Board Member

FROM: Betty Burnett, General Manager

STAFF CONTACT: Amber Baylor, Director of Environmental Compliance

SUBJECT: Eurofins Eaton Analytical Services Lab – Contract Extension 1 Year

Summary

The San Juan Creek Ocean Outfall and the Aliso Creek Ocean Outfall require chemistry monitoring on a semi-annual basis at each outfall location. The chemistry monitoring requirements are found in Table E-4 of each NPDES permit. Copies of the NPDES permits can be found on the SOCWA website: <https://www.socwa.com/environment/permits/>

Discussion/Analysis

SOCWA utilizes Eurofins Eaton Analytical for specialized water chemistry testing in compliance with Section 40 of the Code of Federal Regulations Part 136 (also known as 40 CFR 136). To date spending is \$41,815. However, spending per year is not more than \$5,000 for both ocean outfalls.

Advisory Committee Review

No previous review based on recurring vendor services. SOCWA staff will endeavor to complete an RFP for these services prior to the close of FY 22-23 to obtain current market prices for these services.

Prior Related Project Committee or Board Action(s)

These services are within the budget for PC5 and PC25 as approved by the Board for FY 22-23.

Fiscal impact

Tables 1 & 2 below provide cost breakdowns per member agency for PC5 and PC24 respectively.

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Member Agency	Percent Ownership (%)	Cost Per Agency (\$)
City of San Clemente	16.6	\$ 830.00
City of San Juan Capistrano	11.1	\$ 555.00
Moulton Niguel Water District	15.5	\$ 775.00
Santa Margarita Water District	44.3	\$ 2,215.00
South Coast Water District	12.5	\$ 625.00
		\$ 5,000.00

Table 1: PC5 Member Agency Costs

Member Agency	Percent Ownership (%)	Cost Per Agency (\$)
City of Laguna Beach	11	\$ 550.00
El Toro Water District	16.3	\$ 815.00
Emerald Bay Service District	0.8	\$ 40.00
Irvine Ranch Water District	15.8	\$ 790.00
Moulton Niguel Water District	43.8	\$ 2,190.00
South Coast Water District	12.3	\$ 615.00
		\$ 5,000.00

Table 2: PC24 Member Agency Costs

Recommended Action: Staff recommends that the Board of Directors authorize the General Manager to extend the Eurofins Eaton Analytical Lab Services, 1 year contract at an estimated cost of \$5,000.

Agenda Item

6.H.

Budgeted: Yes

Budget amount: n/a

Line Item:

Legal Counsel Review: No

Meeting Date: September 1, 2022

TO: PC15 Board Members

FROM: Betty Burnett, General Manager

STAFF CONTACT: David Baranowski, Director of Engineering

SUBJECT: COX Communication / Fiberoptic Internet Service for the Coastal Treatment Plant [Project Committee 15]

Summary

The Coastal Treatment Plant has been experiencing issues with internet connectivity for the past few years. Internet is currently supplied by a combination of DSL lines from Laguna Beach, cellular receivers, and satellite internet. None of the existing internet connections are reliable, resulting in internet outages at the plant and frequent work interruptions.

Conduits for a new internet service connection from Laguna Niguel were installed as part of the Export Sludge Force Main Replacement project in 2021. SOCWA contacted multiple internet service providers (ISP) and found one to provide a new internet connection for the plant.

Cox Communications has offered to install fiberoptic cable to the plant from Laguna Niguel through the new conduits at no cost to SOCWA. In return, they require that SOCWA sign a multi-year agreement. Multi-year agreements for internet are already used at other SOCWA facilities because they result in a lower monthly rate.

The rate is \$910.00 per month for 60 months (5 year commitment) for a 1Gbps connection. The total contract value over five years is \$54,600.00 plus nominal fees for service activation.

Fiscal impact

The cost for the new internet service fits within the existing PC15 operating budget. Additionally, the new internet connection will allow existing internet services to be cancelled, reducing costs.

Tables 1 provides a cost breakdown per PC15 member agency.

Member Agency	5-Year Cost Per Agency (\$)	Cost Per Agency (\$ Per Year
City of Laguna Beach	\$ 20,699.10	\$ 4,139.82
Emerald Bay Services District	\$ 1,629.85	\$ 325.97
Moulton Niguel Water District	\$ 15,972.54	\$ 3,194.51
South Coast Water District	\$ 16,298.51	\$ 3,259.70
	\$ 54,600.00	\$ 10,920.00

Table 1: PC15 Member Agency Costs

Recommended Action: Staff recommends that the PC-15 Board of Directors authorize the General Manager to enter into a multi-year (5 year) contract with Cox Communications at an estimated value over five years of \$54,600.00 plus nominal fees for service for fiberoptic internet.

Agenda Item

6.J.

Board of Directors Meeting

Meeting Date: September 1, 2022

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

ADMINISTRATION

Member Agency Requests

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

1. Request to General Manager –
 - Moulton Niguel Water District: Director Collings called to relay to the General Manager the actions of the MNWD Board in seeking to takeover operations of the RTP AWT. The General Manager requested that Director Collings inform the PC 17 Board and ask that they direct SOCWA staff.
2. Request to Director of Environmental Compliance -
 - Moulton Niguel Water District: Request to tie-in Mission Viejo Golf Course to the Lakefill line (land outfall) for disposal of brine to the SJC Ocean Outfall. In staff's opinion SDRWQCB NPDES Permit Amendment would be required.
 - South Coast Water District: Discussions with SCWD staff regarding request of Dana Point Harbor Project to dewater 1 mgd 5000 TDS water to the JBL facility. Consultation with Pretreatment Coordinator and Director of Operations on this item. SOCWA Engineering Dept. may seek an update of JBL Plant Operational Parameters Evaluation to respond to this request. BOD removal can be impacted in wastewater treatment by higher salt loadings.
3. Requests to Finance Controller –
 - Invited to participate in interviews of SCWD candidates for position in Finance.

ENVIRONMENTAL COMPLIANCE

Asset Management Plan (AMP) – NPDES Permit Requirement

The SOCWA Engineering Committee met on August 11, 2022 and reviewed agenda and outline for the asset management plan and accompanying AMP templates. A discussion on the merits and approach ensued. SOCWA staff clarified to Engineering Committee members that the request for materials was limited in scope and SOCWA Member Agencies could submit materials that were based on current materials they had on hand as the SDRWQCB staff indicated that no new information would be required to comply with the AMP and that one AMP per outfall is the desirable deliverable due October 28, 2022. The draft AMP will be provided to SOCWA's Engineering Committee on September 8, 2022, for review and comment and a final review by the SOCWA Board at the October 6, 2022 Board meeting.

Salt and Nutrient Management Plan

SOCWA relayed to PC12 members that the SNMP methodology provided to the San Diego Regional Water Quality Control Board (SDRWQCB) for analysis of the basins within the California anti-degradation requirements was approved by the SDRWQRCB. The methodology makes explicitly clear that due to basin water quality prior to 1968, what is termed a “best efforts approach”, is an acceptable compliance approach with the 2019 Recycled Water Policy. SOCWA staff is working on updating the SNMP with this accepted approach for submission to the SDRWQCB after review and comment by PC12 members.

CASA Conference

Amber Baylor attended the California Association of Sanitation Agencies (CASA) Annual Conference from August 9 through August 11, 2022. Staff engaged with Chair Joaquin Esquivel at the CASA Board meeting on priorities for the State Water Resources Control Board over the next year. Staff attended the following sessions: Cybersecurity, Microplastics, Sustainability, and Wastewater Based Epidemiology. Staff also met with the Engineering Research Committee to engage with emerging research trends for the wastewater sector support in developing policies. SOCWA was nominated for the Junction Structure Project in the Small Capital Award but lost to City of Oceanside's Pure Water Project.

OPERATIONS

SCAP Changes its Name to Clean Water Socal

The Southern California Alliance of Publicly Owned Treatment Works (SCAP) is changing its name to Clean Water Socal. The effort is the result of the SCAP members' recent planning session this summer. The rebranding of SCAP is being done to more clearly articulate the goals and objectives of the association members, which includes both wastewater and water agencies.

Manway Project Update

The manway on Digester #2 is nearly complete. This is the second of two manways to be installed on the project. The exterior carbon fiber straps are pictured below. The last element of the project is to coat the new concrete and is scheduled for early September 2022.

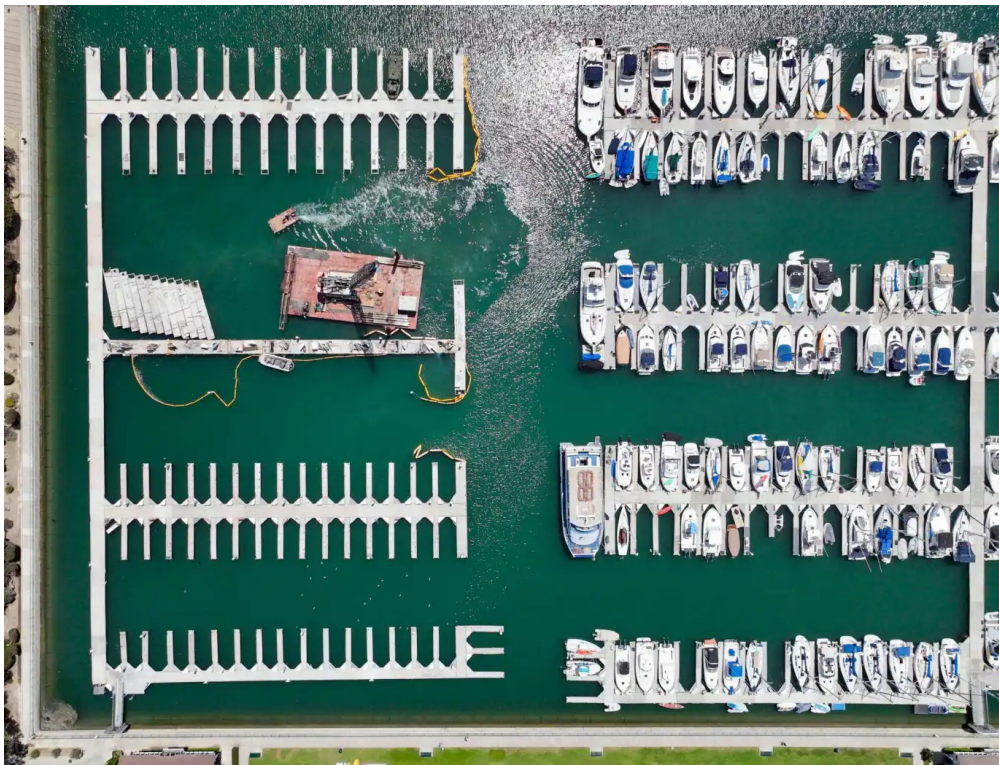


CTP OCFA Recommendations Update

O&M staff is working to remove additional landscaping recommended by OCFA along the wildland interface of the Plant. Below are before and after photos of an area near the Operations Building.



Long awaited construction begins on the marina at Dana Point Harbor



Construction crews work to revitalize the harbor in Dana Point, CA, on Monday, August 15, 2022. The Dana Point Harbor Partners' plans for the harbor is expected to last until late 2028 and include the removal and replacement of docks, piles and gangways, (Photo by Jeff Gritchen, Orange County Register/SCNG)

By **ERIKA I. RITCHIE** | eritchie@scng.com | Orange County Register

PUBLISHED: August 18, 2022 at 6:11 a.m. | UPDATED: August 19, 2022 at 3:47 p.m.



After more than two decades of talking about and planning a renovation of Dana Point Harbor, construction equipment has finally arrived and the demolition of old and brittle docks between Baby Beach and the Island Way bridge has started.

The cranes and workers, belonging to Bellwether Financial Group, started with pulling piles and fingers from [C Dock in the harbor's West Cove](#). The debris will be hauled away and new docks, which are being built in Northern California, will be trucked down and installed in September.

The work is the first step in a five-year, 17-phase overhaul. Work will be done in the existing marina and the outer basins. The work is expected to cost about \$100 million.

"It feels really good to start," said Joe Ueberroth, founder of Bellwether Financial Group. "People have been waiting for decades."

"A project of this size is extremely expensive," he added. "After we finish the first phase, we'll move to the adjacent docks and do the same thing there."

[The marina work](#) is part of an overall renovation of Dana Point Harbor, which in return for, Bellwether, a Newport Beach marina developer, and two other development groups working together as Dana Point Harbor Partners, [won in 2018 a 66-year lease from the County of Orange](#).

The overall cost of the harbor's redevelopment is estimated to cost around \$400 million. Bryon Ward, president of Burnham Ward Properties, is heading up the development of the commercial core, and Bob Olson, of R.D. Olson, will build two hotels once entitlements from the California Coastal Commission come through.

Under the public-private partnership, the developers are expected to design, fund and build the improvements, then operate those portions of the harbor through the life of the lease before returning the property to the county. The Orange County Sheriff's Department's Harbor Patrol building and docks are not part of the partners' lease.

To get ready for the demolition at C Dock, Ueberroth said boaters in those slips were relocated to other harbor areas. Once the docks are completed, the boaters will return.



The potential noise impact on local marine life when it is time to drive the piles 15 feet into the bedrock floor of the harbor for the new docks will be monitored by an observer – it is a requirement the Coastal Commission has for approving the work. The harbor is home to dozens of sea lions and other marine mammals.

“We’ve built most of the coastal marinas in California,” Ueberroth said. “We haven’t seen any adverse effects over decades. But, to be overly cautious, we’ll take the extra step.”

To finally start is a relief, he said. “A lot of people questioned if this would ever come about. We’re really pleased to have executed our plan and begin construction ahead of schedule of the coastal permit. COVID delayed the project, but not by that much.”

As additional dock space is added, Ueberroth said he will be able to begin moving boat owners off the waiting list, which is now at 2,165. The harbor renovation has generated more interest from local boaters looking for 60- to 65-foot slips, he said.

While Dana Point Harbor is known for and will remain a “small boaters harbor,” the new marina will offer about 24 slips for the larger boats, he said. There are currently 15 slips that are 60 feet long. There will be a total of 2,265 slips available after the renovation – the vast majority will be for boats 30 feet and under, Ueberroth said.

In 2021, Ueberroth [increased slip fees](#). Owners of boats under 30 feet saw a 26% increase. Boat owners in the largest slip categories – between 55 feet and 60 feet – faced a 90% rise in their rental cost.

The Dana Point Boaters Association characterizes the rate increase as excessive and unfair and [has taken its argument with Ueberroth to court](#), adding to its complaints that the hike in rents violates the California Tidelands Grant, which provides for public access to amenities such as the county-owned harbor.

Anne Eubanks, president of the boaters group, said there is also a concern among owners about how long it might take to fund future phases of the marina work.

Eager for the renovations to progress is Donna Kalez, who operates Dana Wharf Sportfishing and Whale Watching and its fleet of 17 boats. Her docks in the harbor are in critical need of repair, she said. “I’m excited to see construction.”



She noted that the start of the work on Aug. 4 was just a day after her father, Don Hansen, who started the [whale watching charter in the harbor](#), was posthumously honored with a plaza rededication at the harbor. The late Hansen was a persistent advocate for the harbor with county and city officials to move the harbor renovation along.

"I'm also happy knowing that the parking structure is coming right behind," Kalez said.

Ward said the harbor's new structure will be the first project on land and that he expects to break ground in October. He is also in discussions with harbor restaurants, he said, as he plans the future footprint for retail — which is expected to be significantly larger.

"We're doing all we can to negotiate," Ward said. "Local color is important. We worked hard to keep that in the design and to embrace the DNA of Dana Point, not Newport Beach."

Ward said the renovations should allow merchants to reinvest in their businesses by reinventing menus, redesigning their kitchens and drawing even more customers.

"We have learned from COVID that patios are very important and this will very much be an outdoor experience," he said. "It's also important that we curate food, so we don't have similar concepts. We want people to think of Dana Point Harbor as a food destination."

Jim Miller, who operates Coffee Importers and the Scoop Deck, has crowded patios now. He is located just across from where some of the larger boats will be docked once all the new slips are in. Like Kalez, his business has been in the harbor for decades and he has also been the president of the Dana Point Harbor Merchants Association and worked tirelessly to push forward on the harbor renovation.

"After waiting 24 years," he said, "I'm excited to see the construction begin."

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