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.

James L Burror Jr, Board Secretary
SOCWA and the Board of Directors thereof

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

September 5, 2024
8:30 a.m.

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

THE BOARD OF DIRECTORS MEETING ROOM IS WHEELCHAIR ACCESSIBLE. IF YOU REQUIRE ANY SPECIAL DISABILITY RELATED ACCOMMODATIONS, PLEASE CONTACT THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY SECRETARY'S OFFICE AT (949) 234-5452 AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING TO REQUEST SUCH ACCOMMODATIONS. THIS AGENDA CAN BE OBTAINED IN ALTERNATE FORMAT UPON REQUEST TO THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY'S SECRETARY AT LEAST SEVENTY-TWO (72) HOURS PRIOR TO THE SCHEDULED MEETING. MEMBERS OF THE PUBLIC HAVE THE OPTION TO PARTICIPATE IN AND MAY JOIN THE MEETING REMOTELY VIA VIDEO CONFERENCE FOR VISUAL INFORMATION ONLY (USE ZOOM LINK BELOW) AND BY TELECONFERENCE FOR AUDIO PARTICIPATION (USE PHONE NUMBERS BELOW). THIS IS A PHONE-CALL MEETING AND NOT A WEB-CAST MEETING, SO PLEASE REFER TO AGENDA MATERIALS AS POSTED ON THE WEBSITE AT WWW.SOCWA.COM. ON YOUR REQUEST, EVERY EFFORT WILL BE MADE TO ACCOMMODATE PARTICIPATION. FOR PARTIES PARTICIPATING REMOTELY, PUBLIC COMMENTS WILL BE TAKEN DURING THE MEETING FOR ORAL COMMUNICATION IN ADDITION TO PUBLIC COMMENTS RECEIVED BY PARTIES PARTICIPATING IN PERSON. COMMENTS MAY BE SUBMITTED PRIOR TO THE MEETING VIA EMAIL TO ASSISTANT SECRETARY DANITA HIRSH AT DHIRSH@SOCWA.COM WITH THE SUBJECT LINE "REQUEST TO PROVIDE PUBLIC COMMENT." IN THE EMAIL, PLEASE INCLUDE YOUR NAME, THE ITEM YOU WISH TO SPEAK ABOUT, AND THE TELEPHONE NUMBER YOU WILL BE CALLING FROM SO THAT THE COORDINATOR CAN UN-MUTE YOUR LINE WHEN YOU ARE CALLED UPON TO SPEAK. THOSE MAKING PUBLIC COMMENT REQUESTS REMOTELY VIA TELEPHONE IN REAL-TIME WILL BE ASKED TO PROVIDE YOUR NAME, THE ITEM YOU WISH TO SPEAK ABOUT, AND THE TELEPHONE NUMBER THAT YOU ARE CALLING FROM SO THE COORDINATOR CAN UNMUTE YOUR LINE WHEN YOU ARE CALLED UPON TO SPEAK. ONCE THE MEETING HAS COMMENCED, THE CHAIR WILL INVITE YOU TO SPEAK AND ASK THE COORDINATOR TO UNMUTE YOUR LINE AT THE APPROPRIATE TIME.

AGENDA ATTACHMENTS AND OTHER WRITINGS THAT ARE DISCLOSABLE PUBLIC RECORDS DISTRIBUTED TO ALL, OR A MAJORITY OF, THE MEMBERS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY BOARD OF DIRECTORS IN CONNECTION WITH A MATTER SUBJECT FOR DISCUSSION OR CONSIDERATION AT AN OPEN MEETING OF THE BOARD OF DIRECTORS ARE AVAILABLE FOR PUBLIC INSPECTION IN THE AUTHORITY ADMINISTRATIVE OFFICE LOCATED AT 34156 DEL OBISPO STREET, DANA POINT, CA ("AUTHORITY OFFICE") OR BY PHONE REQUEST MADE TO THE AUTHORITY OFFICE AT 949-234-5452. IF SUCH WRITINGS ARE DISTRIBUTED TO MEMBERS OF THE BOARD OF DIRECTORS LESS THAN SEVENTY-TWO (72) HOURS PRIOR TO THE MEETING, THEY WILL BE AVAILABLE IN THE RECEPTION AREA OF THE AUTHORITY OFFICE AT THE SAME TIME AS THEY ARE DISTRIBUTED TO THE BOARD OF DIRECTORS AND SENT TO ANY REMOTE PARTICIPANTS REQUESTING EMAIL DELIVERY OR POSTED ON SOCWA'S WEBSITE. IF SUCH WRITINGS ARE DISTRIBUTED IMMEDIATELY PRIOR TO, OR DURING, THE MEETING, THEY WILL BE AVAILABLE IN THE MEETING ROOM OR IMMEDIATELY UPON VERBAL REQUEST TO BE DELIVERED VIA EMAIL TO REQUESTING PARTIES PARTICIPATING REMOTELY.

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

Join Zoom Meeting
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South Orange County Wastewater Authority
Board of Directors Meeting
September 5, 2024

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1. CALL TO ORDER

2. PLEDGE OF ALLEGIANCE

3. ORAL COMMUNICATIONS

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

4. APPROVAL OF BOARD MEMBER REQUEST FOR REMOTE PARTICIPATION

   ACTION Board Discussion/Direction and Action.

5. CONSENT CALENDAR

PAGE NO.

A. Preliminary Financial Reports for June 2024 and Final Cash Disbursements for the Months of May 2024 & June 2024 1

The reports included are as follows:

1. Summary of Disbursements for May 2024 (Exhibit A.1)
2. Summary of Disbursements for June 2024 (Exhibit A.2)
3. Schedule of Funds Available for Reinvestment (Exhibit B)
   - Local Agency Investment Fund (LAIF)
4. Schedule of Cash and Investments (Exhibit C)
5. Capital Schedule (Exhibit D)
   - Capital Projects – Graph (Exhibit D-1)
6. Budget vs. Actual Expenses:
   - Operations and Environmental Summary (Exhibit E-1)
   - Operations and Environmental by PC (E-1.2)
   - Residual Engineering, after transfer to Capital (Exhibit E-2)
   - Administration (Exhibit E-3)
   - Information Technology (IT) (Exhibit E-4)

ACTION The Finance Committee recommends that the Board of Directors (i) receive and file the June 2024 Financial Reports, (ii) ratify the May 2024 disbursement for the period from May 1, 2024, through May 31, 2024, totaling $1,671,478, and (iii) ratify the June 2024 Disbursement for the period from June 1, 2024, through June 30, 2024, totaling $2,549,652.

B. Preliminary Net Pension Liability as of June 30, 2024 20

Recommended Action: Information Item

South Orange County Wastewater Authority
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C. July 2024 Operations Report 24
1. Monthly Operational Report
2. SOCWA Ocean Outfall Discharges by Agency
3. Fiscal Year Report on Key Operational Expenses
4. Beach Ocean Monitoring Report
5. Recycled Water Report
6. Pretreatment Report (August)

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

D. Use Audit Flows and Solids FY 2023-24 66

ACTION The Engineering Committee recommends that the Board of Directors approve the Use Audit calculated results for the close of the Use Audit for disbursement or collection of additional funds in FY 2023-24.

E. Capital Improvement Program Status Report (August) 70

ACTION Information item.

F. Capital Improvement Construction Projects Progress and Change Order Report (August) [Project Committees 2 and 15] 73

ACTION Information item.

6. ENGINEERING MATTERS

A. Coastal Treatment Plant (CTP) Drainage Pump Station Final Design [Project Committee 15] 76

ACTION The Engineering Committee recommends that the PC15 Board of Directors i) approve a contract with Tetra Tech for a total of $380,000 for the CTP Drainage Pump Station Rehabilitation Design and ii) approve a contract contingency of $20,000 for unknown issues discovered during design.

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B. Contract Award for Coastal Treatment Plant (CTP) Grating Replacement on Aeration /Secondary Deck [Project Committee 15] 102

ACTION Staff recommends that the Engineering Committee recommend that the PC 15 Board of Directors i) add $110,000 to the CTP Grating Replacement on Aeration /Secondary Deck budget for a total amended budget of $160,000, ii) approve a contract with SS Mechanical Construction for a total of $147,126, and iii) approve a contract contingency of $12,874 for unknown issues discovered during construction.

C. Contract Award for J.B. Latham Treatment Plant (JBL) Scum Line Construction [Project Committee 2] 105

ACTION The Engineering Committee recommends that the PC 2 Board of Directors i) approve an additional $150,000 to be added to the JBL Scum Line Replacement Project budget for a revised budget of $300,000, ii) approve a contract with SS Mechanical Construction for a total of $278,949, and iii) approve a contract contingency of $21,051 for unknown issues discovered during construction.

D. Contract Award for J.B. Latham Treatment Plant (JBL) MCC-M, Switchgear Circuit Breaker, and Portable Generator Connection Pre-Procurement [Project Committee 2] 107

ACTION The Engineering Committee recommends that the PC 2 Board approve i) the contract to Pacific Parts & Controls for a total of $239,065 and ii) approve a contract contingency of $20,000 for the JBL MCC M and appurtenances pre-procurement.

7. GENERAL MANAGER'S REPORT

A. Wastewater-Based Epidemiology [Project Committees 2, 15 and 17] 109

ACTION Staff recommends that the Board of Directors approve a two-year contract with Verily for wastewater-based epidemiology services for three facilities: PC 2, PC 15, and PC 17 at a cost not to exceed $9,360 per facility with payment due July 2025.

B. Multi-Jurisdictional Hazard Mitigation Plan (MJHMP) 112

ACTION The Engineering Committee recommends completing the MJHMP General Public and Stakeholder Outreach process utilizing the SOCWA Website to post pertinent information, provide SOCWA contact emails, and post required public survey links as required to comply with FEMA requirements.

South Orange County Wastewater Authority
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C. Orange County Grand Jury Report – Emerging Opportunities in South County Water/Wastewater Systems .....

- Adhoc Committee Update
- Discussion and Action to Approve SOCWA's Draft Response to Orange County Grand Jury Report

ACTION Board Discussion/Direction and Action.

D. Discussion on the SCWD/SMWD Proposal Framework.....
- SCWD Proposal March 7, 2024 - PROPOSAL TO TRANSITION THE REGIONAL TREATMENT PLANT (RTP) TO MOULTON NIGUEL WATER DISTRICT (MNWD) & FACILITATE MNWD'S WITHDRAWAL FROM SOCWA [PC 2, 5, 8, 12, 15, 17, 21, & 24].

ACTION Board Discussion/Direction and Action.

E. General Counsel's Update.....
- Regarding All-Counsel Meeting to Discuss SOCWA Reorganization Agreements

ACTION Board Discussion/Direction and Action.

F. Acting General Manager's Report 117

ACTION Board Discussion/Direction and Action.

G. Upcoming Meetings Schedule: .....
- September 5, 2024 – Board of Directors Regular Meeting
- September 12, 2024 – Engineering Committee Meeting
- September 17, 2024 – Finance Committee Meeting
- October 3, 2024 – Board of Directors Regular Meeting

ACTION Information Item.

8. CLOSED SESSION

A. Closed Session Pursuant to Government Code § 54957(b).
- Public Employee Appointment:
  - Acting General Manager

B. Closed Session Pursuant to Government Code § 54957(b).
- Public Employee Performance Evaluation
  - Title: Acting General Manager/Director of Operations

C. Report Out of Closed Session

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South Orange County Wastewater Authority
Board of Directors Meeting
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9. OTHER MATTERS

Determine the need to take action on the following item(s) introduced by the Acting General Manager/Director of Operations, which arose after the posted agenda. [Adoption of this action

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

10. ADJOURNMENT

THE NEXT SOCWA BOARD MEETING
October 3, 2024

Agenda Item 5.A

Board of Directors Meeting

Meeting Date: September 5, 2024

TO: Board of Directors

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

STAFF CONTACT: Mary Carey, Finance Controller

SUBJECT: Preliminary Financial Reports for June 2024 and Final Cash Disbursements for the months of May 2024 & June 2024

Summary/Discussion

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

The reports included are as follows:

a. Summary of Disbursements for May 2024 (Exhibit A.1)

b. Summary of Disbursements for June 2024 (Exhibit A.2)

c. Schedule of Funds Available for Reinvestment (Exhibit B)

   - Local Agency Investment Fund (LAIF)

d. Schedule of Cash and Investments (Exhibit C)

e. Capital Schedule (Exhibit D)

   - Capital Projects – Graph (Exhibit D-1)

f. Budget vs. Actual Expenses:

   - Operations and Environmental Summary (Exhibit E-1)
   - Operations and Environmental by PC (E-1.2)
   - Residual Engineering, after transfer to Capital (Exhibit E-2)
   - Administration (Exhibit E-3)
   - Information Technology (IT) (Exhibit E-4)

Fiscal Impact

May 2024 cash disbursements were $1,671,478.
June 2024 cash disbursements were $2,549,652.

- Monthly disbursements are summarized in the attached Exhibit A.1 & A.2.
- The attached Exhibits B, C, D, and E are informational reports only.

Recommended Action: The Finance Committee recommends that the Board of Directors (i) receive and file the June 2024 Financial Reports, (ii) ratify the May 2024 disbursement for the period from May 1, 2024, through May 31, 2024, totaling $1,671,478, and (iii) ratify the June 2024 Disbursement for the period from June 1, 2024, through June 30, 2024, totaling $2,549,652.

Exhibit A.1

South Orange County Wastewater Authority
Summary of Disbursements for May 2024
Staff Recommendation of Fiscal Matters

	Actual
General Fund	$ (478,514)
PC 2 - Jay B. Latham Plant	(382,625)
PC 5 - San Juan Creek Ocean Outfall	(112,769)
PC 8 - Pretreatment Program	(354.86)
PC 12 SO - Water Reclamation Permits	(1,223)
PC 15 - Coastal Treatment Plant/AWT	(150,781)
PC 17 - Joint Regional Wastewater Reclamation	(321,155)
PC 21 - Effluent Transmission Main	(11,188)
PC 23 - North Coast Interceptor	-
PC 24 - Aliso Creek Ocean Outfall	(212,868)
Total	**$ (1,671,478)**

Exhibit A.2

South Orange County Wastewater Authority
Summary of Disbursements for June 2024
Staff Recommendation of Fiscal Matters

	Actual
General Fund	$ (871,018)
PC 2 - Jay B. Latham Plant	(413,967)
PC 5 - San Juan Creek Ocean Outfall	(101,653)
PC 8 - Pretreatment Program	(1,314.53)
PC 12 SO - Water Reclamation Permits	-
PC 15 - Coastal Treatment Plant/AWT	(472,179)
PC 17 - Joint Regional Wastewater Reclamation	(514,385)
PC 21 - Effluent Transmission Main	(20,879)
PC 23 - North Coast Interceptor	-
PC 24 - Aliso Creek Ocean Outfall	(154,257)
Total	**$ (2,549,652)**

Exhibit B

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY
SCHEDULE OF FUNDS AVAILABLE FOR REINVESTMENT
as of June 30, 2024

CASH IN BANK: (BEGINNING BAL.)	$	2,055,435
L.A.I.F. FUNDS: (BEGINNING BAL.)		15,676,350
DEPOSITS, TRANSFERS & ADJUSTMENTS:		391,896
FUND REQUIREMENTS:		
BILLS FOR CONSIDERATION		(2,549,652)
TOTAL CASH IN BANK	**$**	**15,574,028**

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.

Jim Burror
Acting General Manager/Director of Operations

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 7/24/24

Quarterly Performance Quarter Ended 06/30/24

LAIF Apportionment Rate[2]:	4.55
LAIF Earnings Ratio[2]:	0.00012419067099490
LAIF Administrative Cost[1]*:	0.16
LAIF Fair Value Factor[1]:	0.996316042
PMIA Daily[1]:	4.52
PMIA Quarter to Date[1]:	4.36
PMIA Average Life[1]:	217

PMIA Average Monthly Effective Yields[1]

June	**4.480**
May	4.332
April	4.272
March	4.232
February	4.122
January	4.012

Pooled Money Investment Account Monthly Portfolio Composition [1] 6/30/24 $178.0 billion

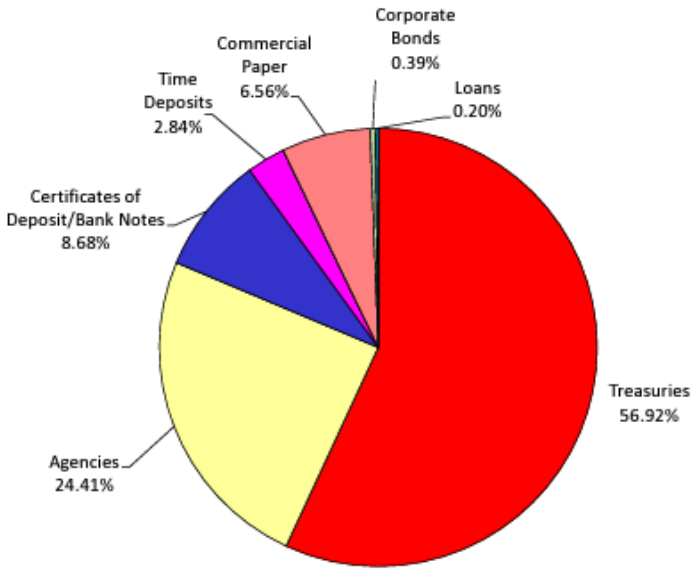


Chart does not include $1,567,000.00 in mortgages, which equates to 0.001%. Percentages may not total 100% due to rounding.

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).

**The percentage of administrative cost equals the total administrative cost divided by the quarterly interest earnings. The law provides that administrative costs are not to exceed 5% of quarterly EARNINGS of the fund. However, if the 13-week Daily Treasury Bill Rate on the last day of the fiscal year is below 1%, then administrative costs shall not exceed 8% of quarterly EARNINGS of the fund for the subsequent fiscal year.*

Source:
[1] State of California, Office of the Treasurer
[2] State of Calfiornia, Office of the Controller

Exhibit C

South Orange County Wastewater Authority
Schedule of Cash and Investments
as of June 30, 2024

MVA	$	1,342	(A)
A/P Checking		1,750,701	(B)
Payroll Checking		330,636	(C)
State LAIF		13,491,350	(D)
Total Cash in Bank[1]	**$**	**15,574,028**	
Petty Cash		1,600	(E)
Total Operating Cash	**$**	**15,575,628**	
OPEB Trust		7,038,273	(F)
Total Cash and Investments	**$**	**22,613,901**	

[1]Bank 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.

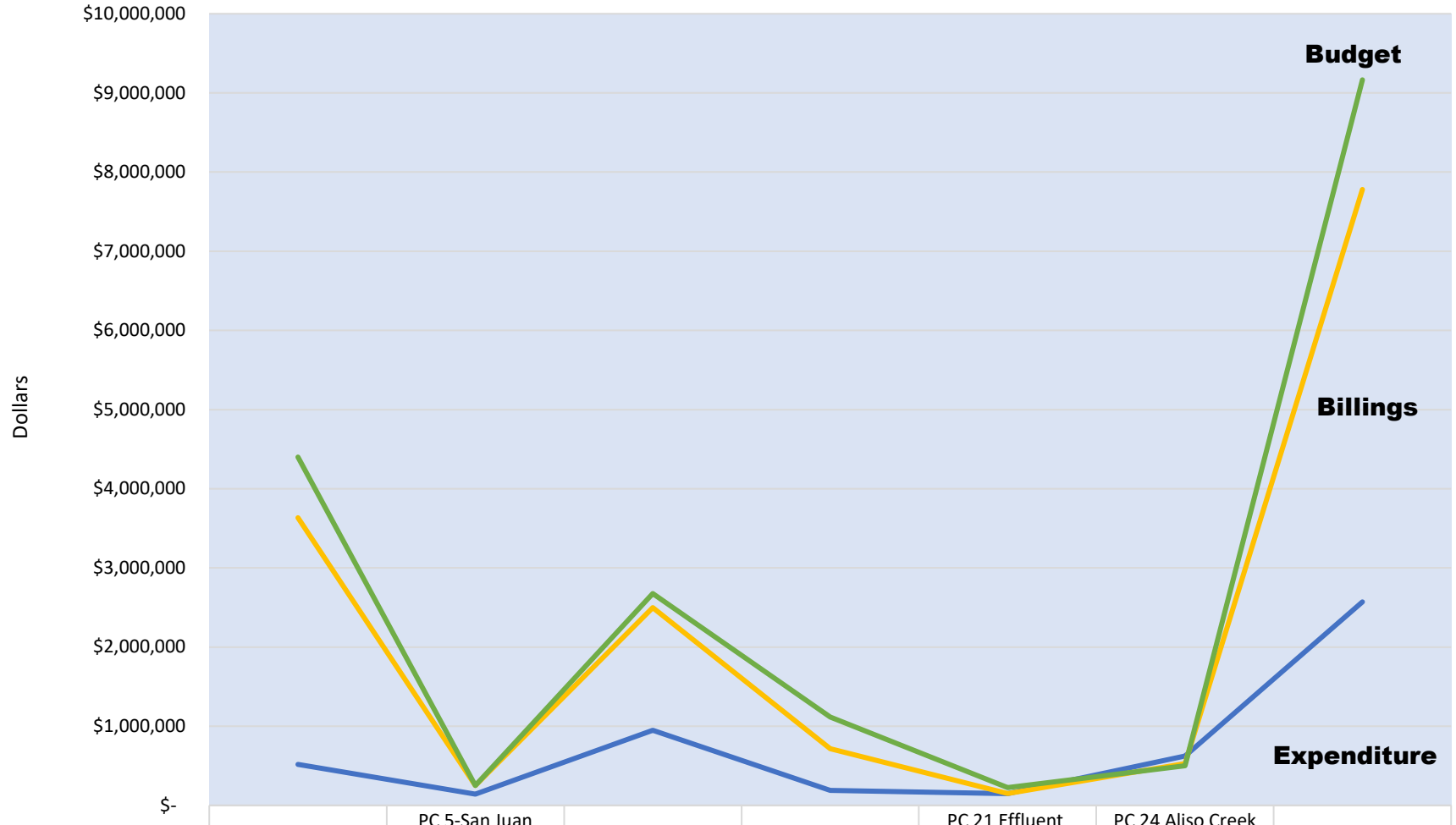
Exhibit D

South Orange County Wastewater Authority
Capital Projects Summaries
For the Period Ended June 30, 2024
(in dollars)

Description	FY 2023-24 Budget vs. Actual Spending							
	Capital Budget	Fiscal Year Spending	(Over)/ Under Budget	% Expended	Member Agency Billed	Member Agency Collections	Open Receivables	% Expended vs. Billed
PC 2-JB Latham	$ 4,400,000	$ 517,451	$ 3,882,549	11.8%	$ 3,635,000	$ 3,635,000	$ -	14.2%
PC 5-San Juan Creek Outfall	250,000	142,391	107,610	57.0%	250,000	250,000	-	57.0%
PC 15-Coastal	2,675,000	948,638	1,726,362	35.5%	2,500,000	2,500,000	-	37.9%
PC 17-Regional	1,115,000	189,058	925,942	17.0%	715,000	715,000	-	26.4%
PC 21 Effluent Transmission	225,000	150,280	74,720	66.8%	150,000	150,000	-	100.2%
PC 24 Aliso Creek Outfall	500,000	622,889	(122,889)	124.6%	530,000	530,000	-	117.5%
Total Large Capital	**$ 9,165,000**	**$ 2,570,707**	**$ 6,594,293**	**28.0%**	**$ 7,780,000**	**$ 7,780,000**	**$ -**	**33.0%**
Non-Capital Engineering	905,000	110,595	794,405	12.2%	676,250	676,250	-	16.4%
Non-Capital Misc Engineering	-	-	-	-	-	-	-	-
Small Internal Capital	2,013,000	1,838,565	174,435	91.3%	2,013,000	2,013,000	-	91.3%
Total Capital	**$ 12,083,000**	**$ 4,519,867**	**$ 7,563,133**	**37.4%**	**$ 10,469,250**	**$ 10,469,250**	**$ -**	**43.2%**

Large Capital Projects Fiscal Year 2023-24 Budget vs. Year-to-Date Expenditures & Billings as of 06/30/2024

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 06/30/2024	$517,451	$142,391	$948,638	$189,058	$150,280	$622,889	$2,570,707
FY 23-24 Billings	$3,635,000	$250,000	$2,500,000	$715,000	$150,000	$530,000	$7,780,000
Capital Budget FY 23-24	$4,400,000	$250,000	$2,675,000	$1,115,000	$225,000	$500,000	$9,165,000

Exhibit E-1

South Orange County Wastewater Authority
Preliminary O & M & Environmental Safety Costs Summary[1]
For the Period Ended June 30, 2024
(in dollars)

		FY 2023-24 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended	
Salary and Fringe								
-5000--**-**	Regular Salaries-O&M	5,065,446		5,065,446	4,812,734	252,712	95.0%	
-5001--**-**	Overtime Salaries-O&M	82,008		82,008	132,164	(50,156)	161.2%	(1)
-5306--**-**	Scheduled Holiday Work	68,376		68,376	71,654	(3,278)	104.8%	
-5315--**-**	Comp Time - O&M	17,628		17,628	44,619	(26,991)	253.1%	(1)
-5401--**-**	Fringe Benefits IN to PC's & Depts.	2,731,721		2,731,721	2,771,822	(40,100)	101.5%	
-5700--**-**	Standby Pay	104,000		104,000	103,700	300	99.7%	
	Total Payroll Costs	8,069,179	-	8,069,179	7,936,693	132,486	98.4%	
Other Expenses								
-5002--**-**	Electricity	1,260,000	75,000	1,335,000	1,789,217	(454,218)	134.0%	(2)
-5003--**-**	Natural Gas	490,500	40,000	530,500	352,345	178,155	66.4%	
-5004--**-**	Potable & Reclaimed Water	78,000		78,000	78,567	(567)	100.7%	
-5005--**-**	Co-generation Power Credit	(1,302,000)		(1,302,000)	(941,946)	(360,054)	72.3%	
-5006--**-**	Chlorine/Sodium Hypochlorite	181,000		181,000	263,805	(82,805)	145.7%	(3)
-5007--**-**	Polymer Products	1,040,000	50,000	1,090,000	1,176,372	(86,372)	107.9%	(3)
-5008--**-**	Ferric Chloride	880,000	90,000	970,000	1,192,178	(222,178)	122.9%	(3)
-5009--**-**	Odor Control Chemicals	155,000	45,000	200,000	220,238	(20,238)	110.1%	
-5010--**-**	Other Chemicals - Misc.	2,000		2,000	126	1,874	6.3%	
-5011--**-**	Laboratory Services	56,632		56,632	41,399	15,233	73.1%	
-5012--**-**	Grit Hauling	132,500		132,500	149,199	(16,699)	112.6%	(4)
-5013--**-**	Landscaping	211,000		211,000	214,686	(3,686)	101.7%	
-5015--**-**	Management Support Services	527,000	52,987	579,987	396,935	183,052	68.4%	
-5016--**-**	Audit - Environmental	1,304		1,304	-	1,304	0.0%	
-5017--**-**	Legal Fees	30,672	5,000	35,672	15,469	20,204	43.4%	
-5018--**-**	Public Notices/ Public Relations	1,500		1,500	-	1,500	0.0%	
-5019--**-**	Contract Services Misc.	372,996		372,996	330,058	42,939	88.5%	
-5021--**-**	Small Vehicle Expense	24,128		24,128	40,961	(16,833)	169.8%	(5)
-5022--**-**	Miscellaneous Expense	16,032		16,032	3,808	12,224	23.8%	
-5023--**-**	Office Supplies - All	48,000		48,000	37,103	10,898	77.3%	
-5024--**-**	Petroleum Products	27,000		27,000	20,396	6,603	75.5%	
-5025--**-**	Uniforms	78,000		78,000	102,630	(24,630)	131.6%	(6)
-5026--**-**	Small Vehicle Fuel	20,272		20,272	19,630	642	96.8%	
-5027--**-**	Insurance - Property/Liability	535,873	10,000	545,873	566,662	(20,789)	103.8%	(7)
-5028--**-**	Small Tools & Supplies	77,668		77,668	54,237	23,432	69.8%	
-5030--**-**	Trash Disposal	9,000		9,000	11,180	(2,179)	124.2%	
-5031--**-**	Safety Program & Supplies	114,956		114,956	96,699	18,257	84.1%	
-5032--**-**	Equipment Rental	7,000		7,000	3,496	3,504	49.9%	
-5033--**-**	Recruitment	2,300		2,300	-	2,300	0.0%	
-5034--**-**	Travel Expense/Tech. Conferences	75,078		75,078	26,173	48,905	34.9%	
-5035--**-**	Training Expense	50,479		50,479	57,106	(6,626)	113.1%	
-5036--**-**	Laboratory Supplies	127,092		127,092	166,576	(39,484)	131.1%	(8)
-5037--**-**	Office Equipment	27,000		27,000	4,766	22,234	17.7%	
-5038--**-**	Permits	635,836	15,000	650,836	637,947	12,889	98.0%	
-5039--**-**	Membership Dues/Fees	13,153		13,153	27,110	(13,957)	206.1%	(9)
-5044--**-**	Offshore Monitoring	81,604		81,604	99,756	(18,152)	122.2%	
-5045--**-**	Offshore Biochemistry - 20B	22,500		22,500	9,887	12,613	43.9%	
-5046--**-**	Effluent Chemistry	50,948		50,948	46,650	4,298	91.6%	
-5047--**-**	Access Road Expenses	45,000		45,000	6,919	38,081	15.4%	
-5048--**-**	Storm Damage	20,000		20,000	-	20,000	0.0%	
-5049--**-**	Biosolids Disposal	1,747,500	30,000	1,777,500	1,713,386	64,114	96.4%	
-5050--**-**	Contract Services Generators - 29A	23,000		23,000	7,437	15,563	32.3%	
-5052--**-**	Janitorial Services	95,000		95,000	97,695	(2,695)	102.8%	
-5053--**-**	Contract Serv - Digester Cleaning - 29E	80,000		80,000	-	80,000	0.0%	
-5054--**-**	Diesel Truck Maint	43,000		43,000	37,576	5,424	87.4%	
-5055--**-**	Diesel Truck Fuel	11,800		11,800	12,030	(230)	102.0%	
-5056--**-**	Maintenance Equip. & Facilities (Solids)	300,000		300,000	120,721	179,279	40.2%	
-5057--**-**	Maintenance Equip. & Facilities (Liquids)	510,000		510,000	417,910	92,090	81.9%	
-5058--**-**	Maintenance Equip. & Facilities (Common)	92,008		92,008	57,273	34,735	62.2%	
-5059--**-**	Maintenance Equip. & Facilities (Co-Gen)	836,700		836,700	882,820	(46,120)	105.5%	(10)
-5060--**-**	Maintenance Equip. & Facilities (AWT)	39,000		39,000	11,494	27,507	29.5%	
-5061--**-**	Mileage	2,900		2,900	1,583	1,317	54.6%	
-5068--**-**	MNWD Potable Water Supplies & Svcs.	44,880		44,880	33,406	11,474	74.4%	

Exhibit E-1

South Orange County Wastewater Authority
Preliminary O & M & Environmental Safety Costs Summary[1]
For the Period Ended June 30, 2024
(in dollars)

		FY 2023-24 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended
-5076--**-**	SCADA Infrastructure	93,600		93,600	77,148	16,452	82.4%
-5077--**-**	IT Direct	45,000		45,000	52,203	(7,203)	116.0%
-5101--**-**	Employee Recognition	-		-	650	(650)	0.0%
-5105--**-**	Co-Generation Power Credit - Offset	1,302,000		1,302,000	941,946	360,054	72.3%
-5303--**-**	Group Insurance Waiver	14,400		14,400	-	14,400	0.0%
-5305--**-**	Medicare Tax Payments for Employees	152		152	-	152	0.0%
-5309--**-**	Operating Leases	20,000		20,000	28,025	(8,025)	140.1%
-5705--**-**	Monthly Car Allowance	31,200		31,200	25,200	6,000	80.8%
-5796--**-**	TCWD Contract Services	-		-	(7,102)	7,102	0.0%
-5797--**-**	Verily Stipends - WastewaterSCAN Monitoring	-		-	(69,750)	69,750	0.0%
-5799--**-**	Zephyr Wall Costs Share-O&M	(14,000)		(14,000)	(13,221)	(779)	94.4%
-6500--**-**	IT Allocations in to PC's & Depts.	620,553		620,553	569,609	50,945	91.8%
	Total Other Expenses	12,165,718	412,987	12,578,705	12,316,378	262,328	97.9%
	Total O&M Expenses	**20,234,898**	**412,987**	**20,647,885**	**20,253,071**	**394,814**	**98.1%**

[1] This report intends to monitor the Annual Budget % Expended at the Project Committee and Functional Department levels.

The financial information contained in this report, in some cases, is based on the full accrual basis of accounting, whereby expenses are recognized in the period in which the liability is incurred, i.e., payroll and fringe benefits.

There are instances where we will include the total expense for the entire accounting fiscal year if the information is available, i.e., property and liability insurance premiums.

The audited financial statements for the fiscal year recognize all expenses on the full accrual basis of accounting.

(1) Staff overtime was elevated due to three (3) nighttime shutdowns to support the ACOO internal repair project and two (2) projects at JBL.
(2) Increases in power costs approved by the CPUC are above assumed increased rates.
(3) Usage is elevated due to the septicity of the sewage entering plants that started this FY and discussed with the Engineering Committee.
(4) Large storms increased the volume of grit received at the plants during a typical year.
(5) SOCWA fleet repairs were higher than anticipated. Eight older vehicles were released to auction to minimize future repair expenses.
(6) Additional PPE was added to employees' inventory due to new outdoor/indoor heat regulations.
(7) CSRMA's Insurance cost actuals were higher than projected with the approval of the Budget.
(8) Inflation-driven cost increases and TNI accreditation compliance costs. Lab supplies for member agencies are resolved in the use audit.
(9) Twice as many employees joined trade organizations than in the past and budgeted for.
(10) One more than anticipated carbon swap was purchased at RTP due to high H2S levels in the influent wastewater.

South Orange County Wastewater Authority
Preliminary O&M Budget vs. Actual Comparison by PC[1]
For the Period Ended June 30, 2024
(in dollars)

		FY 2023-24 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	1,785,000		1,785,000	1,658,287	126,713	92.9%	
02-5001-**-**-**	Overtime Salaries-O&M	27,208		27,208	51,086	(23,878)	187.8%	(1)
02-5306-**-**-**	Scheduled Holiday Work	30,000		30,000	30,493	(493)	101.6%	
02-5315-**-**-**	Comp Time - O&M	8,604		8,604	13,731	(5,127)	159.6%	(1)
02-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	962,625		962,625	955,065	7,559	99.2%	
02-5700-**-**-**	Standby Pay	37,846		37,846	37,850	(4)	100.0%	
	Total Payroll Costs	2,851,283	-	2,851,283	2,746,512	104,771	96.3%	
Other Expenses								
02-5002-**-**-**	Electricity	660,000		660,000	861,627	(201,627)	130.5%	(2)
02-5003-**-**-**	Natural Gas	252,000		252,000	156,152	95,848	62.0%	
02-5004-**-**-**	Potable & Reclaimed Water	27,000		27,000	26,928	72	99.7%	
02-5006-**-**-**	Chlorine/Sodium Hypochlorite	21,000		21,000	67,082	(46,082)	319.4%	(3)
02-5007-**-**-**	Polymer Products	390,000		390,000	479,794	(89,794)	123.0%	(3)
02-5008-**-**-**	Ferric Chloride	300,000		300,000	385,479	(85,479)	128.5%	(3)
02-5009-**-**-**	Odor Control Chemicals	38,000		38,000	28,468	9,532	74.9%	(3)
02-5010-**-**-**	Other Chemicals - Misc.	1,000		1,000	-	1,000	0.0%	
02-5011-**-**-**	Laboratory Services	20,108		20,108	8,251	11,857	41.0%	
02-5012-**-**-**	Grit Hauling	70,500		70,500	88,923	(18,423)	126.1%	(4)
02-5013-**-**-**	Landscaping	68,000		68,000	70,147	(2,147)	103.2%	
02-5015-**-**-**	Management Support Services	16,500		16,500	22,135	(5,635)	134.2%	
02-5017-**-**-**	Legal Fees	5,000		5,000	472	4,528	9.4%	
02-5019-**-**-**	Contract Services Misc.	129,000		129,000	118,508	10,492	91.9%	
02-5021-**-**-**	Small Vehicle Expense	11,000		11,000	16,851	(5,851)	153.2%	(5)
02-5022-**-**-**	Miscellaneous Expense	8,000		8,000	1,715	6,285	21.4%	
02-5023-**-**-**	Office Supplies - All	30,000		30,000	18,816	11,184	62.7%	
02-5024-**-**-**	Petroleum Products	11,000		11,000	1,788	9,212	16.3%	
02-5025-**-**-**	Uniforms	36,000		36,000	45,797	(9,797)	127.2%	
02-5026-**-**-**	Small Vehicle Fuel	8,000		8,000	7,126	874	89.1%	
02-5027-**-**-**	Insurance - Property/Liability	188,606		188,606	202,748	(14,142)	107.5%	(6)
02-5028-**-**-**	Small Tools & Supplies	35,000		35,000	18,972	16,028	54.2%	
02-5030-**-**-**	Trash Disposal	3,000		3,000	3,407	(407)	113.6%	
02-5031-**-**-**	Safety Program & Supplies	40,032		40,032	36,618	3,414	91.5%	
02-5032-**-**-**	Equipment Rental	3,000		3,000	-	3,000	0.0%	
02-5033-**-**-**	Recruitment	1,000		1,000	-	1,000	0.0%	
02-5034-**-**-**	Travel Expense/Tech. Conferences	18,163		18,163	8,975	9,188	49.4%	
02-5035-**-**-**	Training Expense	15,420		15,420	18,219	(2,799)	118.2%	
02-5036-**-**-**	Laboratory Supplies	21,412		21,412	26,479	(5,067)	123.7%	
02-5037-**-**-**	Office Equipment	14,000		14,000	4,551	9,449	32.5%	
02-5038-**-**-**	Permits	27,032		27,032	28,019	(987)	103.7%	
02-5039-**-**-**	Membership Dues/Fees	3,423		3,423	9,579	(6,156)	279.8%	(7)
02-5049-**-**-**	Biosolids Disposal	750,000		750,000	695,973	54,027	92.8%	(8)
02-5050-**-**-**	Contract Services Generators - 29A	10,000		10,000	-	10,000	0.0%	
02-5052-**-**-**	Janitorial Services	43,000		43,000	41,843	1,157	97.3%	
02-5053-**-**-**	Contract Serv - Digester Cleaning - 29E	15,000		15,000	-	15,000	0.0%	
02-5054-**-**-**	Diesel Truck Maint	23,000		23,000	18,453	4,547	80.2%	
02-5055-**-**-**	Diesel Truck Fuel	3,300		3,300	4,003	(703)	121.3%	
02-5056-**-**-**	Maintenance Equip. & Facilities (Solids)	125,000		125,000	34,094	90,906	27.3%	
02-5057-**-**-**	Maintenance Equip. & Facilities (Liquids)	200,000		200,000	171,506	28,494	85.8%	
02-5058-**-**-**	Maintenance Equip. & Facilities (Common)	30,000		30,000	26,260	3,740	87.5%	
02-5059-**-**-**	Maintenance Equip. & Facilities (Co-Gen)	297,000		297,000	308,333	(11,332)	103.8%	
02-5061-**-**-**	Mileage	1,400		1,400	871	529	62.2%	
02-5076-**-**-**	SCADA Infrastructure	31,200		31,200	25,664	5,536	82.3%	
02-5077-**-**-**	IT Direct	15,000		15,000	16,443	(1,443)	109.6%	
02-5303-**-**-**	Group Insurance Waiver	3,600		3,600	-	3,600	0.0%	
02-5309-**-**-**	Operating Leases	20,000		20,000	28,025	(8,025)	140.1%	(9)
02-5705-**-**-**	Monthly Car Allowance	18,600		18,600	13,246	5,354	71.2%	
02-5797-**-**-**	Verily Stipends - WastewaterSCAN Monitoring	-		-	(23,250)	23,250	100.0%	
02-5799-**-**-**	Zephyr Wall Costs Share-O&M	(14,000)		(14,000)	(13,221)	(779)	94.4%	
02-6500-**-**-**	IT Allocations in to PC's & Depts.	218,718		218,718	200,763	17,956	91.8%	
	Total Other Expenses	4,263,015	-	4,263,015	4,312,630	(49,615)	101.2%	
	Total Expenses	7,114,298	-	7,114,298	7,059,142	55,156	99.2%	

Exhibit E-1.2

South Orange County Wastewater Authority
Preliminary O&M Budget vs. Actual Comparison by PC[1]
For the Period Ended June 30, 2024
(in dollars)

		FY 2023-24 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	145,529		145,529	128,714	16,815	88.4%	
05-5001-**-**-**	Overtime Salaries-O&M	72		72	1,588	(1,516)	2206.1%	(10)
05-5306-**-**-**	Scheduled Holiday Work	468		468	95	373	20.4%	
05-5315-**-**-**	Comp Time - O&M	-			476	(476)	100.0%	
05-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	78,482		78,482	74,131	4,351	94.5%	
	Total Payroll Costs	224,551	-	224,551	205,005	19,546	91.3%	
Other Expenses								
05-5015-**-**-**	Management Support Services	110,000		110,000	121,330	(11,330)	110.3%	
05-5017-**-**-**	Legal Fees	7,000		7,000	-	7,000	0.0%	
05-5022-**-**-**	Miscellaneous Expense	-			-	-	100.0%	
05-5027-**-**-**	Insurance - Property/Liability	21,282		21,282	22,072	(790)	103.7%	(6)
05-5031-**-**-**	Safety Supplies	1,020		1,020	-	1,020	0.0%	
05-5034-**-**-**	Travel Expense/Tech. Conferences	5,696		5,696	3,934	1,762	69.1%	
05-5035-**-**-**	Training Expense	1,087		1,087	64	1,023	5.9%	
05-5036-**-**-**	Laboratory Supplies	33,500		33,500	38,047	(4,547)	113.6%	(11)
05-5038-**-**-**	Permits	302,496		302,496	296,410	6,087	98.0%	
05-5039-**-**-**	Membership Dues/Fees	1,000		1,000	166	835	16.5%	
05-5044-**-**-**	Offshore Monitoring	40,800		40,800	49,878	(9,078)	122.2%	
05-5045-**-**-**	Offshore Biochemistry - 20B	7,500		7,500	4,944	2,556	65.9%	
05-5046-**-**-**	Effluent Chemistry	28,000		28,000	24,978	3,022	89.2%	
05-5058-**-**-**	Maintenance Equip. & Facilities (Common)	1,004		1,004	-	1,004	0.0%	
05-6500-**-**-**	IT Allocations in to PC's & Depts.	17,832		17,832	16,368	1,464	91.8%	
	Total Other Expenses	578,218	-	578,218	578,190	28	100.0%	
	Total Expenses	802,768	-	802,768	783,195	19,574	97.6%	
08 - Pre Treatment								
Salary and Fringe								
08-5000-**-**-**	Regular Salaries-O&M	132,256		132,256	115,394	16,862	87.3%	
08-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	71,324		71,324	66,459	4,864	93.2%	
	Total Payroll Costs	203,579	-	203,579	181,853	21,726	89.3%	
Other Expenses								
08-5011-**-**-**	Laboratory Services	3,064		3,064	-	3,064	0.0%	
08-5015-**-**-**	Management Support Services	20,000		20,000	-	20,000	0.0%	
08-5016-**-**-**	Audit - Environmental	1,304		1,304	-	1,304	0.0%	
08-5017-**-**-**	Legal Fees	2,672		2,672	-	2,672	0.0%	
08-5018-**-**-**	Public Notices/ Public Relations	1,500		1,500	-	1,500	0.0%	
08-5021-**-**-**	Small Vehicle Expense - 31A	1,128		1,128	-	1,128	0.0%	
08-5022-**-**-**	Miscellaneous Expense	2,032		2,032	62	1,970	3.0%	
08-5026-**-**-**	Small Vehicle Fuel - 37A	1,272		1,272	-	1,272	0.0%	
08-5027-**-**-**	Insurance - Property/Liability	7,170		7,170	7,387	(217)	103.0%	
08-5028-**-**-**	Small Tools & Supplies	3,668		3,668	527	3,141	14.4%	
08-5034-**-**-**	Travel Expense/Tech. Conferences	3,500		3,500	1,571	1,929	44.9%	
08-5035-**-**-**	Training Expense	2,044		2,044	4,069	(2,025)	199.1%	
08-5038-**-**-**	Permits and Fines	508		508	-	508	0.0%	
08-5039-**-**-**	Membership Dues/Fees	816		816	1,398	(582)	171.3%	
08-6500-**-**-**	IT Allocations in to PC's & Depts.	16,205		16,205	14,875	1,330	91.8%	
	Total Other Expenses	66,883	-	66,883	29,888	36,996	44.7%	
	Total Expenses	270,462	-	270,462	211,741	58,722	78.3%	
10 - San Clemente Land Outfall								
Other Expenses								
10-5017-**-**-**	Legal Fees	-	5,000	5,000	-	5,000	0.0%	
	Total Other Expenses	-	5,000	5,000	-	5,000	0.0%	
	Total Expenses	-	5,000	5,000	-	5,000	0.0%	
12 - Water Reclamation Permits								
Salary and Fringe								
12-5000-**-**-**	Regular Salaries-O&M	13,572		13,572	41,274	(27,702)	304.1%	(12)
12-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	7,319		7,319	23,771	(16,452)	324.8%	(12)
	Total Payroll Costs	20,892	-	20,892	65,046	(44,154)	311.3%	
Other Expenses								
12-5015-**-**-**	Management Support Services	35,000	52,987	87,987	38,286	49,701	43.5%	
12-5017-**-**-**	Legal Fees	2,000		2,000	4,080	(2,080)	2.04	
12-5027-**-**-**	Insurance - Property/Liability	2,473		2,473	4,030	(1,557)	162.9%	
12-5034-**-**-**	Travel Expense/Tech. Conferences	5,696		5,696	-	5,696	0.0%	
12-5038-**-**-**	Permits	25,500		25,500	27,798	(2,297)	109.0%	
12-5039-**-**-**	Membership Dues/Fees	68		68	-	68	0.0%	
12-5796-02-03-25	TCWD Contract Services	-		-	(7,102)	7,102	0.0%	
12-6500-**-**-**	IT Allocations in to PC's & Depts.	1,663		1,663	1,526	137	91.8%	
	Total Other Expenses	72,401	52,987	125,388	68,618	56,770	54.7%	
	Total Expenses	93,293	52,987	146,280	133,664	12,616	91.4%	

Exhibit E-1.2

South Orange County Wastewater Authority
Preliminary O&M Budget vs. Actual Comparison by PC[1]
For the Period Ended June 30, 2024
(in dollars)

		FY 2023-24 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended	
15 - Coastal Treatment Plant								
Salary and Fringe								
15-5000-**-**-**	Regular Salaries-O&M	971,637		971,637	921,423	50,214	94.8%	
15-5001-**-**-**	Overtime Salaries-O&M	13,732		13,732	12,246	1,486	89.2%	
15-5306-**-**-**	Scheduled Holiday Work	10,260		10,260	8,148	2,112	79.4%	
15-5315-**-**-**	Comp Time - O&M	2,000		2,000	9,419	(7,419)	471.0%	(1)
15-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	523,990		523,990	530,680	(6,690)	101.3%	
15-5700-**-**-**	Standby Pay	18,462		18,462	18,425	37	99.8%	
	Total Payroll Costs	1,540,081	-	1,540,081	1,500,341	39,740	97.4%	
Other Expenses								
15-5002-**-**-**	Electricity	300,000	15,000	315,000	421,583	(106,583)	133.8%	(2)
15-5003-**-**-**	Natural Gas	3,500	15,000	18,500	2,385	16,115	12.9%	
15-5004-**-**-**	Potable & Reclaimed Water	24,000		24,000	21,200	2,800	88.3%	
15-5006-**-**-**	Chlorine/Sodium Hypochlorite	100,000		100,000	132,432	(32,432)	132.4%	(3)(13)
15-5007-**-**-**	Polymer Products	-		-	634	(634)	0.0%	
15-5008-**-**-**	Ferric Chloride	105,000	15,000	120,000	155,257	(35,257)	129.4%	(3)
15-5009-**-**-**	Odor Control Chemicals	50,000	20,000	70,000	107,034	(37,034)	152.9%	(3)
15-5011-**-**-**	Laboratory Services	10,000		10,000	10,787	(787)	107.9%	(11)(14
15-5012-**-**-**	Grit Hauling	22,000		22,000	20,056	1,944	91.2%	
15-5013-**-**-**	Landscaping	63,000		63,000	64,822	(1,822)	102.9%	
15-5015-**-**-**	Management Support Services	13,000		13,000	10,687	2,313	82.2%	
15-5017-**-**-**	Legal Fees	5,000		5,000	-	5,000	0.0%	
15-5019-**-**-**	Contract Services Misc.	110,000		110,000	101,902	8,098	92.6%	
15-5021-**-**-**	Small Vehicle Expense - 31A	4,000		4,000	7,739	(3,739)	193.5%	(5)
15-5022-**-**-**	Miscellaneous Expense	1,000		1,000	744	256	74.4%	
15-5023-**-**-**	Office Supplies - All	5,000		5,000	5,608	(608)	112.2%	
15-5024-**-**-**	Petroleum Products	4,000		4,000	-	4,000	0.0%	
15-5025-**-**-**	Uniforms	10,000		10,000	14,240	(4,240)	142.4%	
15-5026-**-**-**	Small Vehicle Fuel	2,000		2,000	2,381	(381)	119.1%	
15-5027-**-**-**	Insurance - Property/Liability	79,422		79,422	83,165	(3,743)	104.7%	(6)
15-5028-**-**-**	Small Tools & Supplies	9,000		9,000	12,031	(3,031)	133.7%	
15-5030-**-**-**	Trash Disposal	3,000		3,000	2,635	365	87.8%	
15-5031-**-**-**	Safety Supplies	33,456		33,456	14,948	18,508	44.7%	
15-5032-**-**-**	Equipment Rental	1,000		1,000	-	1,000	0.0%	
15-5033-**-**-**	Recruitment	300		300	-	300	0.0%	
15-5034-**-**-**	Travel Expense/Tech. Conferences	18,163		18,163	3,898	14,265	21.5%	
15-5035-**-**-**	Training Expense	15,420		15,420	17,718	(2,298)	114.9%	
15-5036-**-**-**	Laboratory Supplies	20,000		20,000	30,249	(10,249)	151.2%	(14)
15-5037-**-**-**	Office Equipment	3,000		3,000	215	2,785	7.2%	
15-5038-**-**-**	Permits	5,000		5,000	10,304	(5,304)	206.1%	
15-5039-**-**-**	Membership Dues/Fees	3,423		3,423	7,099	(3,676)	207.4%	(7)
15-5047-**-**-**	Access Road Expenses	45,000		45,000	6,919	38,081	15.4%	
15-5048-**-**-**	Storm Damage	20,000		20,000	-	20,000	0.0%	
15-5050-**-**-**	Contract Services Generators	5,000		5,000	5,111	(111)	102.2%	
15-5052-**-**-**	Janitorial Services	15,000		15,000	17,320	(2,320)	115.5%	
15-5054-**-**-**	Diesel Truck Maint - 31B	1,000		1,000	613	387	61.3%	
15-5055-**-**-**	Diesel Truck Fuel - 37B	500		500	3,705	(3,205)	740.9%	
15-5057-**-**-**	Maintenance Equip. & Facilities (Liquids)	110,000		110,000	73,258	36,742	66.6%	
15-5058-**-**-**	Maintenance Equip. & Facilities (Common)	24,000		24,000	4,440	19,560	18.5%	
15-5060-**-**-**	Maintenance Equip. & Facilities (AWT)	39,000		39,000	11,494	27,507	29.5%	
15-5061-**-**-**	Mileage	500		500	387	113	77.4%	
15-5076-**-**-**	SCADA Infrastructure	31,200		31,200	25,820	5,380	82.8%	
15-5077-**-**-**	IT Direct	15,000		15,000	16,443	(1,443)	109.6%	
15-5101-**-**-**	Employee Recognition	-		-	50	(50)	0.0%	
15-5303-**-**-**	Group Insurance Waiver	3,600		3,600	-	3,600	0.0%	
15-5705-**-**-**	Monthly Car Allowance	4,200		4,200	4,039	162	96.2%	
15-5797-**-**-**	Verily Stipends - WastewaterSCAN Monitoring	-		-	(23,250)	23,250	100.0%	
15-6500-**-**-**	IT Allocations in to PC's & Depts.	119,057		119,057	109,282	9,775	91.8%	
	Total Other Expenses	1,455,741	65,000	1,520,741	1,517,384	3,357	99.8%	
	Total Expenses	2,995,822	65,000	3,060,822	3,017,724	43,097	98.6%	

South Orange County Wastewater Authority
Preliminary O&M Budget vs. Actual Comparison by PC[1]
For the Period Ended June 30, 2024
(in dollars)

		FY 2023-24 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	1,884,409		1,884,409	1,816,132	68,277	96.4%	
17-5001-**-**-**	Overtime Salaries-O&M	40,492		40,492	60,939	(20,447)	150.5%	(1)
17-5306-**-**-**	Scheduled Holiday Work	27,356		27,356	32,919	(5,563)	120.3%	
17-5315-**-**-**	Comp Time - O&M	7,024		7,024	19,768	(12,744)	281.4%	(1)
17-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	1,016,234		1,016,234	1,045,974	(29,739)	102.9%	
17-5700-**-**-**	Standby Pay	47,692		47,692	47,425	267	99.4%	
	Total Payroll Costs	3,023,208	-	3,023,208	3,023,156	52	100.0%	
Other Expenses								
17-5002-**-**-**	Electricity	300,000	60,000	360,000	506,007	(146,007)	140.6%	(2)
17-5003-**-**-**	Natural Gas	235,000	25,000	260,000	193,808	66,192	74.5%	
17-5004-**-**-**	Potable & Reclaimed Water	27,000		27,000	30,439	(3,439)	112.7%	
17-5005-**-**-**	Co-generation Power Credit	(1,302,000)		(1,302,000)	(941,946)	(360,054)	72.3%	
17-5006-**-**-**	Chlorine/Sodium Hypochlorite	60,000		60,000	64,292	(4,292)	107.2%	(3)
17-5007-**-**-**	Polymer Products	650,000	50,000	700,000	695,944	4,056	99.4%	(3)
17-5008-**-**-**	Ferric Chloride	475,000	75,000	550,000	651,442	(101,441)	118.4%	(3)
17-5009-**-**-**	Odor Control Chemicals	67,000	25,000	92,000	84,736	7,264	92.1%	(3)
17-5010-**-**-**	Other Chemicals - Misc.	1,000		1,000	126	874	12.6%	
17-5011-**-**-**	Laboratory Services	23,460		23,460	22,361	1,099	95.3%	
17-5012-**-**-**	Grit Hauling - 21A	40,000		40,000	40,221	(221)	100.6%	
17-5013-**-**-**	Landscaping	80,000		80,000	79,717	284	99.6%	
17-5015-**-**-**	Management Support Services	17,500		17,500	14,239	3,261	81.4%	
17-5017-**-**-**	Legal Fees	5,000		5,000	10,489	(5,489)	209.8%	
17-5019-**-**-**	Contract Services Misc.	115,000		115,000	109,648	5,352	95.3%	
17-5021-**-**-**	Small Vehicle Expense	8,000		8,000	16,370	(8,370)	204.6%	(5)
17-5022-**-**-**	Miscellaneous Expense	5,000		5,000	1,288	3,712	25.8%	
17-5023-**-**-**	Office Supplies - All	13,000		13,000	12,678	322	97.5%	
17-5024-**-**-**	Petroleum Products	12,000		12,000	18,609	(6,609)	155.1%	
17-5025-**-**-**	Uniforms	32,000		32,000	42,593	(10,593)	133.1%	(15)
17-5026-**-**-**	Small Vehicle Fuel	9,000		9,000	10,123	(1,123)	112.5%	
17-5027-**-**-**	Insurance - Property/Liability	212,048	10,000	222,048	222,224	(176)	100.1%	(6)
17-5028-**-**-**	Small Tools & Supplies	30,000		30,000	22,707	7,293	75.7%	
17-5030-**-**-**	Trash Disposal	3,000		3,000	5,138	(2,138)	171.3%	
17-5031-**-**-**	Safety Supplies	39,428		39,428	45,133	(5,705)	114.5%	(15)
17-5032-**-**-**	Equipment Rental	3,000		3,000	3,496	(496)	116.5%	
17-5033-**-**-**	Recruitment	1,000		1,000	-	1,000	0.0%	
17-5034-**-**-**	Travel Expense/Tech. Conferences	18,163		18,163	4,276	13,887	23.5%	
17-5035-**-**-**	Training Expense	15,420		15,420	16,971	(1,551)	110.1%	
17-5036-**-**-**	Laboratory Supplies	25,660		25,660	34,768	(9,108)	135.5%	(14)
17-5037-**-**-**	Office Equipment	10,000		10,000	-	10,000	0.0%	
17-5038-**-**-**	Permits	15,300	15,000	30,300	29,395	905	97.0%	
17-5039-**-**-**	Membership Dues/Fees	3,423		3,423	8,704	(5,281)	254.3%	(7)
17-5049-**-**-**	Biosolids Disposal	997,500	30,000	1,027,500	1,017,412	10,088	99.0%	
17-5050-**-**-**	Contract Services Generators - 29A	8,000		8,000	2,327	5,673	0.29	
17-5052-**-**-**	Janitorial Services	37,000		37,000	38,533	(1,533)	104.1%	
17-5053-**-**-**	Contract Serv - Digester Cleaning - 29E	65,000		65,000	-	65,000	0.0%	
17-5054-**-**-**	Diesel Truck Maint	19,000		19,000	18,510	490	97.4%	
17-5055-**-**-**	Diesel Truck Fuel	8,000		8,000	4,322	3,678	54.0%	
17-5056-**-**-**	Maintenance Equip. & Facilities (Solids)	175,000		175,000	86,627	88,373	49.5%	
17-5057-**-**-**	Maintenance Equip. & Facilities (Liquids)	200,000		200,000	173,146	26,854	86.6%	
17-5058-**-**-**	Maintenance Equip. & Facilities (Common)	36,000		36,000	22,017	13,983	61.2%	
17-5059-**-**-**	Maintenance Equip. & Facilities (Co-Gen)	539,700		539,700	574,487	(34,787)	106.4%	
17-5060-**-**-**	Maintenance Equip. & Facilities (AWT)	-		-	-	-	0.0%	
17-5061-**-**-**	Mileage	1,000		1,000	325	675	32.5%	
17-5068-**-**-**	MNWD Potable Water Supplies & Svcs.	44,880		44,880	33,406	11,474	74.4%	
17-5076-**-**-**	SCADA Infrastructure	31,200		31,200	25,664	5,536	82.3%	
17-5077-**-**-**	IT Direct	15,000		15,000	19,318	(4,318)	128.8%	
17-5101-**-**-**	Employee Recognition	-		-	600	(600)	0.0%	
17-5105-**-**-**	Co-Generation Power Credit - Offset	1,302,000		1,302,000	941,946	360,054	72.3%	
17-5303-**-**-**	Group Insurance Waiver	7,200		7,200	-	7,200	0.0%	
17-5305-**-**-**	Medicare Tax Payments for Employees	152		152	-	152	0.0%	
17-5705-**-**-**	Monthly Car Allowance	8,400		8,400	7,915	484	94.2%	
17-5797-**-**-**	Verily Stipends - WastewaterSCAN Monitoring	-		-	(23,250)	23,250	100.0%	
17-6500-**-**-**	IT Allocations in to PC's & Depts.	230,899		230,899	211,943	18,956	91.8%	
	Total Other Expenses	4,975,334	290,000	5,265,334	5,211,242	54,091	99.0%	
	Total Expenses	7,998,542	290,000	8,288,542	8,234,399	54,143	99.3%	

Exhibit E-1.2

South Orange County Wastewater Authority
Preliminary O&M Budget vs. Actual Comparison by PC[1]
For the Period Ended June 30, 2024
(in dollars)

		FY 2023-24 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended	
21 - Effluent Transmission Main								
Other Expenses								
21-5017-**-**-**	Legal Fees	500	-	500	428	72	85.6%	
21-5019-**-**-**	Contract Services Misc.	18,996	-	18,996	-	18,996	0.0%	
21-5027-**-**-**	Insurance - Property/Liability	-	-	-	74	(74)	100.0%	(6)
	Total Other Expenses	19,496	-	19,496	502	18,994	2.6%	
	Total Expenses	19,496	-	19,496	502	18,994	2.6%	
23 - North Coast Interceptor								
Salary and Fringe								
23-5000-**-**-**	Regular Salaries-O&M	1,000	-	1,000	-	1,000	0.0%	
23-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	539	-	539	-	539	0.0%	
	Total Payroll Costs	1,539	-	1,539	-	1,539	0.0%	
Other Expenses								
23-5017-**-**-**	Legal Fees	500	-	500	-	500	0.0%	
23-5015-**-**-**	Management Support Services	-	-	-	-	-	0.0%	
	Total Other Expenses	500	-	500	-	500	0.0%	
	Total Expenses	2,039	-	2,039	-	2,039	0.0%	
24 - Aliso Creek Ocean Outfall								
Salary and Fringe								
24-5000-**-**-**	Regular Salaries-O&M	132,042		132,042	131,510	533	99.6%	
24-5001-**-**-**	Overtime Salaries-O&M	504		504	6,304	(5,801)	1251.0%	(1)
24-5306-**-**-**	Scheduled Holiday Work	292		292	-	292	0.0%	
24-5315-**-**-**	Comp Time - O&M	-		-	1,225	(1,225)	100.0%	(1)
24-5401-**-**-**	Fringe Benefits IN to PC's & Depts.	71,209		71,209	75,741	(4,533)	106.4%	
	Total Payroll Costs	204,047	-	204,047	214,780	(10,733)	105.3%	
Other Expenses								
24-5015-**-**-**	Management Support Services	315,000		315,000	190,258	124,742	60.4%	
24-5017-**-**-**	Legal Fees	3,000		3,000	-	3,000	0.0%	
24-5027-**-**-**	Insurance - Property/Liability	24,872		24,872	24,962	(90)	100.4%	(6)
24-5031-**-**-**	Safety Supplies	1,020		1,020	-	1,020	0.0%	
24-5034-**-**-**	Travel Expense/Tech. Conferences	5,696		5,696	3,520	2,177	61.8%	
24-5035-**-**-**	Training Expense	1,087		1,087	64	1,023	5.9%	
24-5036-**-**-**	Laboratory Supplies	26,520		26,520	37,032	(10,512)	139.6%	(14)
24-5038-**-**-**	Permits	260,000		260,000	246,023	13,977	94.6%	
24-5039-**-**-**	Membership Dues/Fees	1,000		1,000	165	835	16.5%	
24-5044-**-**-**	Offshore Monitoring	40,804		40,804	49,878	(9,074)	122.2%	
24-5045-**-**-**	Offshore Biochemistry - 20B	15,000		15,000	4,944	10,056	33.0%	
24-5046-**-**-**	Effluent Chemistry	22,948		22,948	21,672	1,276	94.4%	
24-5058-**-**-**	Maintenance Equip. & Facilities (Common)	1,004		1,004	4,556	(3,551)	453.7%	(16)
24-6500-**-**-**	IT Allocations in to PC's & Depts.	16,179		16,179	14,851	1,328	91.8%	
	Total Other Expenses	734,131	-	734,131	597,924	136,207	81.4%	
	Total Expenses	938,178	-	938,178	812,704	125,473	86.6%	
	Total O&M Expenses	**20,234,898**	**412,987**	**20,647,885**	**20,253,071**	**394,814**	**98.1%**	

[1] This report intends to monitor the Annual Budget % Expended at the Project Committee and Functional Department levels.

The financial information contained in this report, in some cases, is based on the full accrual basis of accounting, whereby expenses are recognized in the period in which the liability is incurred, i.e., payroll and fringe benefits.

There are instances where we will include the total expense for the entire accounting fiscal year if the information is available, i.e., property and liability insurance premiums.

The audited financial statements for the fiscal year recognize all expenses on the full accrual basis of accounting.

South Orange County Wastewater Authority
Preliminary O&M Budget vs. Actual Comparison by PC
For the Period Ended June 30, 2024

(1) Staff overtime was elevated due to three (3) nighttime shutdowns to support the ACOO internal repair project and two (2) projects at JBL.

(2) Increases in power costs approved by the CPUC are above assumed increased rates.

(3) Usage is elevated due to the septicity of the sewage entering plants that started this FY and discussed with the Engineering Committee.

(4) Storms flushed an unexpected volume of grit into the treatment plant from the collection system.

(5) SOCWA fleet repairs were higher than anticipated. Eight older vehicles were released to auction to minimize future repair expenses.

(6) CSRMA's Insurance cost actuals were higher than projected with the approval of the Budget.

(7) Twice as many employees joined trade organizations than in the past and budgeted for.

(8) Biosolids costs have been increased due to landfill closures on hotter days that started May 2023 to help mitigate landfill odor complaints. Also, unusually heavy rains have limited the use of the landfill this winter.

(9) Due to higher than anticipated trailer rental price increases.

(10) O&M staff are supporting the testing of SCWD Doheny Desal slant wells. SCWD will be billed directly for the overtime support requested to divert test waters into SOCWA's temporary ocean outfall system.

(11) Inflation-driven cost increases and TNI accreditation compliance costs. Lab supplies for member agencies are resolved in the use audit.

(12) Additional effort was required to complete the Salt and Nutrient Management Plan (SNMP).

(13) Bleach usage elevated during the initial months of the Fiscal Year for summer AWT production at CTP.

(14) Advanced Water Treatment routine and accelerated monitoring are driving costs.

(15) Additional PPE was added to employees' inventory due to new outdoor/indoor heat regulations.

(16) The Sampling Building door was replaced due to severe corrosion from the ocean air.

Exhibit E-2

South Orange County Wastewater Authority
Preliminary Budget vs. Actual Comparison - Engineering
For the Period Ended June 30, 2024
(in dollars)

		FY 2023-24 Budget	Actual	(Over)/Under Budget	% Expended
Salary and Fringe					
01-5000-03-00-00	Regular Salaries-O&M	194,546	107,022	87,525	55.0%
01-5401-03-00-00	Fringe Benefits IN to PC's & Depts.	104,916	61,637	43,278	58.7%
	Total Payroll Costs	299,462	168,659	130,803	56.3%
Other Expenses					
01-5019-03-00-00	Contract Services Misc.	-	4,950	(4,950)	0.0%
01-5022-03-00-00	Miscellaneous Expense	2,000	735	1,265	36.8%
01-5034-03-00-00	Travel Expense/Tech. Conferences	8,500	858	7,642	10.1%
01-5035-03-00-00	Training Expense	1,300	519	781	39.9%
01-5037-03-00-00	Office Equipment	150	-	150	0.0%
01-5039-03-00-00	Membership Dues/Fees	1,775	416	1,359	23.4%
01-5061-03-00-00	Mileage	250	-	250	0.0%
01-5077-03-00-00	IT Direct	250	-	250	0.0%
01-5309-03-00-00	Operating Leases	30,000	12,904	17,096	43.0%
01-5705-03-00-00	Monthly Car Allowance	4,200	808	3,392	19.2%
01-5802-03-00-00	Shipping/Freight	100	-	100	0.0%
01-6500-03-00-00	IT Allocations in to PC's & Depts.	54,993	52,752	2,241	95.9%
	Total Other Expenses	103,518	73,942	29,576	71.4%
	Total Engineering Expenses	**402,980**	**242,601**	**160,379**	**60.2%**

Exhibit E-3

South Orange County Wastewater Authority
Preliminary Budget vs. Actual Comparison- Administration
For the Period Ended June 30, 2024
(in dollars)

		FY 2023-24 Budget	Board Approved Expenditures*	Adjusted Budget	Actual	(Over)/Under Budget	% Expended
01-6000-04-00-00	Regular Salaries-Admin or IT	1,006,210		1,006,210	961,168	45,042	95.5%
01-6001-04-00-00	Overtime Salaries-Admin or IT	7,000		7,000	10,165	(3,165)	145.2%
01-6315-04-00-00	Comp Time - Admin	4,000		4,000	1,120	2,880	28.0%
01-6401-04-00-00	Fringe Benefits IN to ADMIN or IT	542,634		542,634	553,570	(10,936)	102.0%
	Total Payroll Costs	1,559,845	-	1,559,845	1,526,023	33,821	97.8%
Other Expenses							
01-6101-04-00-00	HR Recruitment & Employee Relations	48,100		48,100	20,803	27,297	43.2%
01-6102-04-00-00	Subscriptions	1,400		1,400	2,188	(788)	156.3%
01-6103-04-00-00	Contract Labor	30,000		30,000	64,867	(34,867)	216.2%
01-6200-04-00-00	Management Support Services	55,000		55,000	26,487	28,513	48.2%
01-6201-04-00-00	Audit	46,000		46,000	50,830	(4,830)	110.5%
01-6202-04-00-00	Legal	200,000	15,000	215,000	172,753	42,247	80.4%
01-6204-04-00-00	Postage	1,500		1,500	1,428	72	95.2%
01-6223-04-00-00	Office Supplies - Admin	4,000		4,000	310	3,690	7.7%
01-6224-04-00-00	Office Equipment Admin or IT	1,000		1,000	4,222	(3,222)	422.2%
01-6234-04-00-00	Memberships & Trainings	105,000		105,000	91,235	13,765	86.9%
01-6239-04-00-00	Travel & Conference	25,000		25,000	7,905	17,095	31.6%
01-6240-04-00-00	Scholarship Sponsorship	1,000		1,000	-	1,000	0.0%
01-6241-04-00-00	Education Reimbursement	3,000		3,000	1,315	1,685	43.8%
01-6310-04-00-00	Miscellaneous	22,000		22,000	27,488	(5,488)	124.9%
01-6311-04-00-00	Mileage	600		600	775	(175)	129.1%
01-6317-04-00-00	Contract Services Misc	5,800		5,800	5,525	275	95.3%
01-6500-04-00-00	IT Allocations in to PC's & Depts.	123,292		123,292	113,170	10,122	91.8%
01-6601-04-00-00	Shipping/Freight	1,200		1,200	4,408	(3,208)	367.4%
01-6705-04-00-00	Monthly Car Allowance	12,000		12,000	10,200	1,800	85.0%
	Total Other Expenses	685,892	15,000	700,892	605,908	94,985	86.4%
	Total Admin Expenses	**2,245,737**	**15,000**	**2,260,737**	**2,131,931**	**128,806**	**94.3%**

Exhibit E-4

South Orange County Wastewater Authority
Preliminary Budget vs. Actual Comparison-IT
For the Period Ended June 30, 2024
(in dollars)

		FY 2023-24 Budget	Actual	(Over)/Under Budget	% Expended	
Salary & Fringe						
01-6000-05-00-00	Regular Salaries-Admin or IT	116,046	120,585	(4,538)	103.9%	
01-6401-05-00-00	Fringe Benefits IN to ADMIN or IT	62,582	69,449	(6,867)	111.0%	
	Total Salary & Fringe	178,629	190,033	(11,405)	106.4%	
Other Expenses						
01-6028-05-00-00	Small Tools & Supplies	1,000	-	1,000	0.0%	
01-6035-05-00-00	Training Expense	3,000	54	2,946	1.8%	
01-6224-05-00-00	Office Equipment Admin or IT	600	-	600	0.0%	
01-6234-05-00-00	Memberships & Trainings	2,750	1,810	940	65.8%	
01-6239-05-00-00	Travel & Conference	1,500	462	1,038	0.0%	
01-6300-05-00-00	Software Maintenance Agreements	84,700	31,780	52,920	37.5%	
01-6301-05-00-00	Hardware Maintenance Agreements	22,400	7,708	14,692	34.4%	
01-6302-05-00-00	Cloud Subscriptions (Internet)	196,935	170,199	26,735	86.4%	(1)
01-6303-05-00-00	Telecommunications	161,382	165,904	(4,522)	102.8%	
01-6305-05-00-00	IT Professional Services	19,960	73,280	(53,320)	367.1%	(2)
01-6306-05-00-00	Small Hardware Purchases (< $5k)	25,400	15,537	9,863	61.2%	
01-6307-05-00-00	Small Software Purchases & Licenses (<$5k)	30,500	24,086	6,414	79.0%	
01-6308-05-00-00	IT Memberships	160	-	160	0.0%	
01-6309-05-00-00	Operating Leases	64,200	52,352	11,848	81.5%	
01-6310-05-00-00	Miscellaneous	5,000	90	4,910	1.8%	
01-6312-05-00-00	Computer & Photocopy Supplies	3,200	2,236	964	0.0%	
	Total Other Expenses	622,687	545,498	77,189	87.6%	
	Total Expenses before Allocation	**801,315**	**735,531**	**65,784**	**91.8%**	
IT Allocations (Out) to PC's & Depts						
01-6400-05-00-00	IT Allocations (OUT) to PC's & Depts.	(801,315)	(735,531)	(65,784)	91.8%	
	Total IT Allocations (Out) to PC's & Depts	(801,315)	(735,531)	(65,784)	91.8%	

(1) Annual charges incurred at the beginning of the Fiscal Year.

(2) ADP outsourcing project.

Presented to the Finance Committee Meeting on August 20, 2024

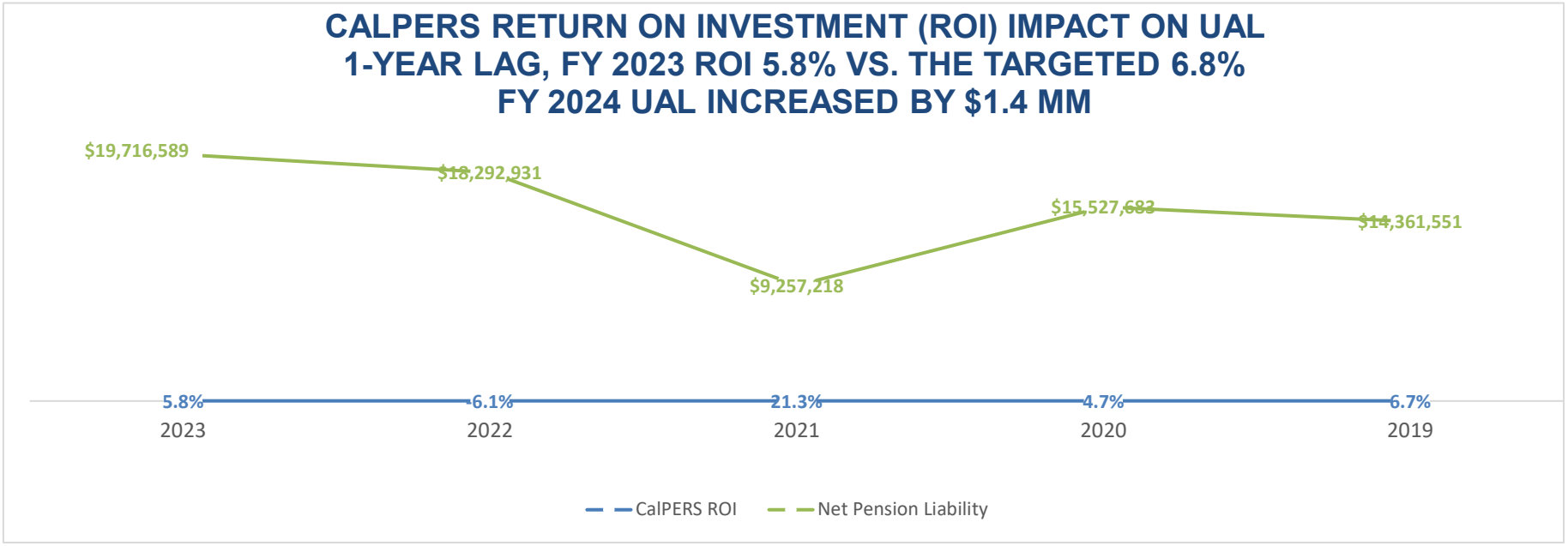
Preliminary Net Pension Liability as of June 30, 2024

Draft GASB 68 Report
Net Pension Liability
as of June 30, 2024

Unfunded Accrued Net Pension Liability (UAL)

Net Pension Liability Fiscal Year Ended June 30

Description	2024	2023	2022	2021	2020	2019	Change between 2024 and 2023 $ +/(-)	Change between 2024 and 2023 % Change
Measurement date	6/30/2023	6/30/2022	6/30/2021	6/30/2020	6/30/2019	6/30/2018		
Total pension liability	($70,521,737)	($66,443,205)	($62,175,535)	($59,026,089)	($55,450,648)	($52,230,824)	($4,078,532)	6.1%
Fiduciary net position	50,805,148	48,150,274	52,918,317	43,498,406	41,089,097	39,044,508	**2,654,874**	5.5%
Net pension (liability)	($19,716,589)	($18,292,931)	($9,257,218)	($15,527,683)	($14,361,551)	($13,186,316)	($1,423,658)	7.8%
% Funded	72.0%	72.5%	85.1%	73.7%	74.1%	74.8%	-0.4%	
CalPERS % Funded, 2023	72%							



Recognition Timing is Different

				GASB 68 Reporting		
ROI	Item	Funding Valuation	Contribution (First Impact)	Measurement Date	Reporting Date	UAL Impact
21.3%	Good FY 21 Return	6/30/2021	FY 23/24	6/30/2021	6/30/2022	UAL Decrease
	6.8% Discount Rate	6/30/2021	FY 23/24	6/30/2022	6/30/2023	UAL Increase
-6.1%	Poor FY 22 Return	6/30/2022	FY 24/25	6/30/2022	6/30/2023	UAL Increase
5.8%	Fair FY 23 Return	6/30/2023	FY 25/26	6/30/2023	6/30/2024	UAL Increase
9.3%	Good FY 24 Return	6/30/2024	FY 26/27	6/30/2024	6/30/2025	UAL Decrease

- CalPERS Valuation Reports are used for Plan Funding and calculation of the Annual Required Contributions.
- There is a two-year lag for the Financial Impact.
- GASB 68, the financial reporting requirement, is a “Current Basis,” a one-year lag.
- The discount rate reduction from 7% to 6.8% is reflected in the valuation report as of 6-30-2021 and will impact FY 2023-24 Employer contributions.
- The discount rate reduction will be reported in the financial records for FY 2022-23.
- FY 2022-23 ROI was 5.8%, less than the target rate of 6.8%; UAL increased in FY 2023-24 reporting. The financial impact on contributions will be in FY 2025-26.
- FY 2023-24 ROI was 9.3%, more than the target rate of 6.8%; UAL will decrease in FY 2024-25. The financial impact on contributions will be in FY 2026-27.

Agenda Item 5.C.

Meeting Date: September 5, 2024

TO: Board of Directors

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

SUBJECT: July 2024 Operations Report

Summary/Discussion

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

1) Monthly Operational Report

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

2) SOCWA Ocean Outfall Discharges by Agency

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

3) Beach Ocean Monitoring Report

4) Recycled Water Report

5) Pretreatment Report

Fiscal Impact

No change.

Recommended Action: Receive and file the Operational Reports.

Monthly Operational Report

SOCWA Operational Report July, 2024

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)	2.93	6.81	7.69	1.05	18.49
Effluent (mgd)	2.61	1.27	7.69	2.95	14.53
Peak Flow (mgd)	10.66	14.27	9.72	10.00	44.65
Influent BOD (mg/l)	239	263	267	401	
Influent TSS (mg/l)	268	357	401	484	
Effluent BOD (mg/l)	4.9	3.9	7.6	7.5	
Effluent TSS (mg/l)	6.1	5.0	9.6	10.9	
Effluent Turbidity (NTU)	3.0	2.3	4.2	5.9	

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

Recycled Water (AWT) Operations

Key Parameters	CTP	RTP	JBL	Totals
Average Flow (mgd)	0.78	5.54		6.31
Days of Operation (days)	31	31		
Total Flow (million gallons)	24.0	171.7		195.8
Plant Irrigation (million gallons)	0.05	0.10	0.12	
AWT Time Online (%)	100			

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, 2024 (cont'd)

Biosolids Management

Biosolids Management Site	CTP	RTP	JBL	Totals
Synagro Compost (tons)		764.5	0.0	764.5
Nursery Products (tons)		324.9	511.4	836.3
Prima Deshecha (tons)		26.2	303.7	329.9
Other:_____ (tons)		0.0	0.0	0.0
Total Processed (tons)		1,115.6	815.1	1,930.7

Summary of Maintenance Activities

Task Type	CTP	RTP	JBL	Totals
Preventative Maintenance	168	289	327	784
Corrective Maintenance	16	56	38	110

Site Visitors

Visitor Types	CTP	RTP	JBL	Totals
Regulatory	0	0	0	0
Member Agency	0	6	1	7
Residents	0	0	0	0
Others	5	16	23	44
Tours #/Visitors	0	0	0	0

Grit Disposal Management

Grit & Screenings	CTP	RTP	JBL	Totals
Simi Valley Landfill (tons)	14.5	29.4	40.0	83.8

Chemical and Energy Utilization

Chemical/Utility	CTP	RTP	JBL	Totals
Ferric Chloride (tons)	9.3	37.0	27.6	73.9
Utility Power Purchase (kWh)	203,808	133,576	NA	337,384
Cogen Power (kWh)		220,871	375,573	596,444
Natural Gas (Dth)	1	NA	1,084	1,085
Digester Gas to Engine (scfm)		3,432,997	4,890,163	8,323,160
Digester Gas to Boiler (scfm)		0		0
Digester Gas to Flares (scfm)		5,466,601	1,153,493	6,620,094
Digester Gas Power Savings		$65,032		

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, 2024 (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	1.751	57.82%				1.75
EBSD	0.089	2.94%				0.09
SCWD	1.188	39.24%		1.791	20.49%	2.98
MNWD	0.000	0.00%	6.81	1.400	16.02%	8.21
CSJC				2.144	24.54%	2.14
SMWD				3.405	38.96%	3.41
Total	3.028	100.00%	6.81	8.740	100.00%	18.58

Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	SJCOO Meter (mgd)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB				1.75	20.63%	1.75	
EBSD				0.09	1.05%	0.09	
SCWD	1.95	16.74%		0.66	7.79%	2.61	Includes Desalters
MNWD	1.52	13.03%		1.27	15.01%	2.79	
ETWD				1.10	12.92%	1.10	Direct Outfall Only
CSJC	2.38	20.45%				2.38	Incudes Desalter
SMWD	3.42	29.31%				3.42	Includes Chiquita
CSC	2.39	20.47%				2.39	Direct Outfall Only
IRWD				3.62	42.61%	3.62	Direct Outfall Only
Total	11.66	100.00%	14.89	8.49	100.00%	20.14	

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%	2.108	27.50%	2.144	24.54%	2.14	24.54%
MNWD	3.00	23.08%	1.400	18.26%	1.400	16.02%	1.40	16.02%
SCWD	3.75	28.85%	1.598	20.85%	1.791	20.49%	1.79	20.49%
SMWD	2.25	17.31%	2.559	33.39%	3.405	38.96%	3.41	38.96%
Total	13.00	100.00%	7.665	100.00%	8.740	100.00%	8.74	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%	6,202	20.48%	6,727	27.61%	6,485	27.21%
MNWD	8,340	21.62%	5,183	17.12%	4,087	16.77%	4,908	20.59%
SCWD	7,715	20.00%	5,693	18.80%	3,614	14.83%	4,371	18.34%
SMWD	10,946	28.38%	13,200	43.60%	9,940	40.79%	8,069	33.86%
Total	38,573	100.00%	30,278	100.00%	24,368	100.00%	23,834	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%	2.386	20.47%	2.386	20.47%
CSJC	11.08%	8.860	11.08%	2.384	20.45%	2.384	20.45%
MNWD(3)	15.51%	12.410	15.51%	1.519	13.03%	1.519	13.03%
SCWD	12.46%	9.970	12.46%	1.951	16.74%	1.951	16.74%
SMWD	44.32%	35.460	44.33%	3.417	29.31%	3.417	29.31%
Total	100.00%	80.000	100.00%	11.657	100.00%	11.657	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, 2024 (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%	1.430	53.56%	1.751	57.82%	1.751	57.82%
EBSD	0.20	2.99%	0.060	2.25%	0.089	2.94%	0.089	2.94%
SCWD	2.00	29.85%	1.180	44.19%	1.188	39.24%	1.188	39.24%
MNWD	1.96	29.25%	0.000	0.00%	0.000	0.00%	0.000	0.00%
Total	6.70	100.00%	2.670	100.00%	3.028	100.00%	3.028	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	0.01480	0.2040%	0.0000	0.0175	0.0175	0.2525%	0.0175	0.2525%
EBSD	0.00060	0.0083%	0.0000	0.0009	0.0009	0.0128%	0.0009	0.0128%
SCWD	0.01210	0.1668%	0.0000	0.0118	0.0118	0.1714%	0.0118	0.1714%
ETWD	0.01810	0.2495%	0.0000	0.0131	0.0131	0.1891%	0.0131	0.1891%
MNWD	7.20960	99.3715%	6.8129	0.0577	6.8707	99.3742%	6.8707	99.3742%
Total	7.25520	100.0000%	6.8129	0.1010	6.9139	100.0000%	6.9139	100.0000%

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

SOCWA Operational Report July, 2024 (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%	4,509	13.13%	201,280	17.28%	201,280	17.28%
EBSD	295	0.59%	194	0.56%	10,232	0.88%	10,232	0.88%
SCWD	4,480	8.96%	3,691	10.75%	136,592	11.73%	136,592	11.73%
ETWD	10,200	20.41%	5,207	15.16%	150,751	12.94%	150,751	12.94%
MNWD	29,395	58.82%	20,747	60.40%	665,806	57.17%	665,806	57.17%
Total	49,975	100.00%	34,348	100.00%	1,164,659	100.00%	1,164,659	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%	1.751	20.63%	1.751	20.63%
EBSD	0.78%	0.390	0.78%	0.089	1.05%	0.089	1.05%
ETWD	16.30%	8.151	16.30%	1.096	12.92%	1.096	12.92%
IRWD	15.76%	7.880	15.76%	3.616	42.61%	3.616	42.61%
MNWD	43.85%	21.924	43.85%	1.274	15.01%	1.274	15.01%
SCWD	12.31%	6.155	12.31%	0.661	7.79%	0.661	7.79%
Total	100.00%	50.000	100.00%	8.487	100.00%	8.487	100.00%

Select Critical Equipment Repairs

JBL - PC2

Replaced failed Digester Circulation Pumps #1 pump seal.
Troubleshot failed Hot Water Loop control valve.
Installed new caustic tank supporting equipment.
Troubleshot failing Process Water control valve.
Repaired water leak near the Solids Scrubber.
Removed spoils in the Main Plant Drain left by Olsson Construction.
Replaced corroded sample ports on the 4 digesters.
Repaired broken water line on DAFT #1.
Started capital project to replace corroded process water piping around JBL.
Troubleshot failing Secondary Tank Drive #2.
Replaced failing Process Water Pump Nos. 2 and 3 motors for rebuilds.
Replaced failed SCR bricks on the Cogen Engine.
Troubleshot PLC communications failures for Centrifuge systems.
Replaced failed D.O. Caps on Tanks Nos 3, 4, 5, and 7.
Troubleshot failed HydroRanger.
Troubleshot PLC communications failures for Plant 1 Barscreen system.

CTP - PC15

Troubleshot failed Process Water Strainers.
Troubleshot failing Scrubber Caustic Pump Stage 2/3 Pump.
Replaced corroded exterior light fixures around the Plant (safety project).
Replaced failed PanelView in Building #2.
Troubleshot failed TC8 PLC.
Replaced failed Filter Pump #1 E-stop.
Supported ongoing Diffuser Project construction.
Troubleshot SCADA MLSS meter.

RTP - PC17

Overhauled Primary Tank #1.
Troubleshot failed secondary effluent turbidity probe system.
Troubleshot failing DAFT Bubbler system.
Continued reconstruction of failed electrical supply to SET Pump Pit.
Repaired damaged electrical wiring for the emergency generator.
Replaced failed pressure switch and gauges for the aeration tank air valves.
Replaced failed Secondary Tank #2 failed flow meter.
Troubleshot failing West RAS Bleach Pump #1.
Repaired corroded chain and flight system on Primary Tank #3.

Select Critical Equipment Repairs (cont'd)

RTP - PC17 (cont'd)

Troubleshot failed Primary Tank #3 Bubbler.
Troubleshot failed Bar Screen #2.
Overhauled Primary Tank #4 Sludge Pump.
Replaced several failed pump hour meters around the Plant.
Replaced corroded odor skirts on all 5 Primary tanks.
Started overhaul project for the Headworks Screenings Compactor.
Overhauled Non-Potable Water Bleach Pump #1.
Troubleshot failing Scrubber No. 1 Bleach Pump.

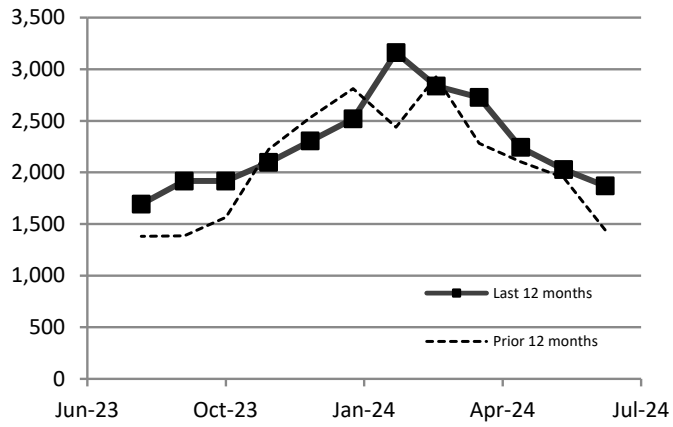
SOCWA Ocean Outfall Discharges by Agency

SOCWA Operational Report July, 2024 (cont'd)

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.75	20.63%	1.75
EBSD			0.09	1.05%	0.09
SCWD	1.95	16.74%	0.66	7.79%	2.61
MNWD	1.52	13.03%	1.27	15.01%	2.79
ETWD			1.10	12.92%	1.10
CSJC	2.38	20.45%			2.38
SMWD	3.42	29.31%			3.42
CSC	2.39	20.47%			2.39
IRWD			3.62	42.61%	3.62
Total	11.66	100.00%	8.49	100.00%	20.14
	or Acre-Feet per year equivalent				22,561

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

Jul-24	1,869
Jun-24	2,028
May-24	2,243
Apr-24	2,727
Mar-24	2,837
Feb-24	3,161
Jan-24	2,519
Dec-23	2,305
Nov-23	2,097
Oct-23	1,916
Sep-23	1,917
Aug-23	1,693
Total	27,312



Beach / Ocean Monitoring Report

ALISO CREEK OCEAN OUTFALL MONITORING REPORT

July 2024

	IRWD								SOCWA				SOCWA				IRWD	IRWD	SCWD		
	LOS ALISOS WRP				EL TORO WRP				REGIONAL PLANT				COASTAL PLANT				IDP	SGU	ACWRF	ACOO	Rain
	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	FLOW	FLOW	FLOW	Fall
DATE	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	inches
07/01/24	3.314	31.0	7.9	0.4	1.080	8.0		<0.1	2.000	4.7	3.0	<0.1	2.567	4.8	4.0	<0.1	0.198	0.000	0.107	9.266	0.00
07/02/24	3.332	28.0	7.5	0.3	1.140	12.5	5.5	<0.1	1.20	9.4	3.0	<0.1	2.259	5.5	2.0	<0.1	0.392	0.000	0.110	8.433	0.00
07/03/24	3.267	24.0	9.5	0.3	0.168	7.8	4.0	<0.1	1.120	5.4	4.0	<0.1	2.269	4.8	3.0	<0.1	0.348	0.000	0.140	7.312	0.00
07/04/24	3.199	24.0	11.0	0.1	1.756	12.6	8.0	0.2	0.760	5.5	4.0	0.1	2.734	6.1	3.0	<0.1	0.389	0.000	0.129	8.967	0.00
07/05/24	3.167	28.0	10.0	0.3	1.899	13.4	7.5	0.2	1.040	4.1	4.0	0.1	2.743	5.0	3.0	<0.1	0.389	0.000	0.143	9.381	0.00
07/06/24	3.180	24.0		0.2	0.656	14.2	6.0	0.1	1.710	3.5	3.0		2.465	7.8	4.0		0.389	0.000	0.135	8.535	0.00
07/07/24	3.178	27.0	8.6	0.3	0.696	10.6	6.0	<0.1	2.560	4.6	5.0	<0.1	2.440	7.4	5.0	<0.1	0.389	0.000	0.114	9.377	0.00
07/08/24	3.317	28.0	8.5	0.1	1.069	8.8		0.1	1.590	4.3	4.0	<0.1	2.524	8.7	3.0	<0.1	0.389	0.000	0.133	9.022	0.00
07/09/24	3.398	31.0	11.0	0.4	1.085	22.8	8.1	0.1	0.900	5.9	4.0	<0.1	2.761	6.1	3.0	<0.1	0.389	0.000	0.137	8.670	0.00
07/10/24	3.345	34.0	9.2	0.4	0.907	10.0	6.0	<0.1	0.780	7.1	4.0	0.1	2.279	5.4	4.0	<0.1	0.390	0.000	0.128	7.829	0.00
07/11/24	3.316	29.0	11.0	0.3	0.949	13.5	5.0	0.2	2.140	4.9	4.0	0.1	2.269	2.7	2.0	<0.1	0.389	0.000	0.106	9.169	0.00
07/12/24	3.203	27.0	10.0	0.4	1.136	15.6	7.3	0.1	0.630	5.2	3.0	0.1	2.649	7.3	4.0	<0.1	0.389	0.000	0.021	8.028	0.00
07/13/24	3.180	27.0		0.2	1.147	10.8	4.0	0.1	0.710	5.2	3.0	0.1	2.694	7.5	21.0	0.1	0.390	0.000	0.000	8.121	0.00
07/14/24	3.180	20.0	9.8	0.3	1.203	11.0	5.0	<0.1	1.940	5.3	5.0	<0.1	2.975	8.1	6.0	<0.1	0.389	0.000	0.000	9.687	0.00
07/15/24	3.368	21.0	10.0	0.3	1.490	7.3	2.9	<0.1	2.520	4.7	5.0	0.1	1.927	5.4	6.0	<0.1	0.389	0.000	0.000	9.694	0.00
07/16/24	3.402	23.0	11.0	0.3	1.264	8.2	8.4	<0.1	1.310	4.0	9.0	0.1	2.568	7.8	5.0	<0.1	0.336	0.000	0.126	9.006	0.00
07/17/24	3.272	25.0	8.5	0.4	2.881	7.8	4.0	0.1	0.600	6.8	5.0	0.1	2.561	7.0	6.0	<0.1	0.390	0.000	0.123	9.827	0.00
07/18/24	3.280	22.0	7.8	0.4	0.843	9.3	4.0	0.3	1.260	4.6	3.0	0.1	2.417	1.9	3.0	0.1	0.389	0.000	0.124	8.313	0.00
07/19/24	3.301	23.0	7.6	0.4	1.193	11.6	6.4	0.1	1.160	4.1	3.0	0.1	2.205	9.5	5.0	<0.1	0.390	0.000	0.144	8.393	0.00
07/20/24	3.316	21.0		0.2	0.702	13.8	8.4	0.1	1.860	3.6	3.0	0.1	2.378	8.1	6.0	0.1	0.389	0.000	0.144	8.789	0.00
07/21/24	3.318	30.0	8.9	0.3	0.752	10.0	5.0	<0.1	1.820	4.3	6.0	<0.1	2.444	7.5	8.0	<0.1	0.305	0.000	0.125	8.764	0.00
07/22/24	3.314	30.0	8.7	0.3	2.826	7.9	4.0	<0.1	2.040	5.5	5.0	<0.1	2.940	9.6	7.0	<0.1	0.389	0.000	0.133	11.642	0.00
07/23/24	3.212	26.0	9.5	0.2	1.639	10.0	4.9	0.1	0.670	4.7	3.0	<0.1	2.520	7.5	5.0	0.1	0.390	0.000	0.125	8.556	0.00
07/24/24	2.596	18.0	4.2	0.1	0.296	10.1	4.2	<0.1	0.500	4.6	3.0	<0.1	2.146	5.8	4.0	<0.1	0.389	0.000	0.125	6.052	0.00
07/25/24	3.197	8.6	2.3	0.1	0.979	13.6	6.0	<0.1	0.740	3.6	3.0	<0.1	2.582	4.0	3.0	<0.1	0.390	0.000	0.149	8.037	0.00
07/26/24	3.216	6.8	1.2	<0.1	0.355	7.8	5.7	0.2	0.460	5.0	3.0	0.1	2.519	0.6	4.0	<0.1	0.389	0.000	0.131	7.070	0.00
07/27/24	3.200	5.8	<1.8	<0.1	0.850	10.0	4.0	0.1	0.470	5.1	3.0		2.583	3.4	3.0		0.390	0.000	0.142	7.635	0.00
07/28/24	3.209	6.7	<1.8	<0.1	0.739	8.8	3.9	<0.1	1.680	6.0	4.0	<0.1	2.712	4.6	3.6	<0.1	0.389	0.000	0.114	8.843	0.00
07/29/24	3.211	7.8	<1.8	<0.1	0.905	7.0		0.1	2.060	4.0	4.0	<0.1	2.657	4.8	5.0	0.1	0.390	0.000	0.136	9.359	0.00
07/30/24	3.210	9.2	2.2	<0.1	1.042	10.5	3.6	<0.1	0.600	4.7	3.0	<0.1	2.327	7.3	6.0	<0.1	0.389	0.000	0.128	7.696	0.00
07/31/24	3.200	9.8	2.4	<0.1	0.340	8.8	4.0	0.1	0.650	5.0	3.0	<0.1	2.412	7.3	5.0	<0.1	0.390	0.000	0.129	7.121	0.00
AVG	3.239	21.8	7.3	<0.2	1.096	10.8	5.4	<0.1	1.274	5.0	3.9	<0.1	2.501	6.1	4.9	<0.1	0.377	0.000	0.113	8.600	
TOTAL	100.40				33.99				39.48				77.53				11.70	0.00	3.501	266.59	0.00

Unified Beach Monitoring #1

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: July 2024
REPORT DUE: September 1 2024
SAMPLE SOURCE: Surf zone
TYPE OF SAMPLE: Grab

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

Tidal Condition: High Tide 10:49
Weather: Clear
COMMENTS:

STA#	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S3	07/02/24	08:00	<10	<10	<2	None	None	None	None	Green	67	Clear		
S4	07/02/24	10:20	<10	<10	<2	None	None	None	None	Green		Clear		
S5	07/02/24	10:00	<10	<10	<2	None	None	None	None	Green		Clear		
S6	07/02/24	09:41	<10	<10	<2	None	None	None	None	Green		Clear		
WEST	07/02/24	09:35	<10	<10	<2	None	None	None	None	Green		Clear		
S7	07/02/24	09:25	<10	10	<2	None	None	None	None	Green		Clear		
S8	07/02/24	09:15	<10	<10	<2	None	None	None	None	Blue		Clear		
S9	07/02/24	09:00	<10	<10	<2	None	None	None	None	Green		Clear		
ACM1	07/02/24	08:55	10	<10	<2	None	None	None	None	Green		Clear		
S10	07/02/24	08:45	<10	<10	<2	None	None	None	None	Green		Clear		
S11	07/02/24	08:35	100	<10	2	None	None	None	None	Green		Clear		
S12	07/02/24	08:20	<10	<10	<2	None	None	None	None	Green		Clear		

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

Unified Beach Monitoring #2

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: July 2024
REPORT DUE: September 1, 2024
SAMPLE SOURCE: Receiving water surf zone
TYPE OF SAMPLE: Grab

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

Tidal Condition: Low Tide 07:01
Weather: Overcast
COMMENTS:

STA#	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S3	07/10/24	08:14	20	20	<2	None	None	None	None	Green		Clear		
S4	07/10/24	09:50	40	60	6	None	None	None	None	Green		Clear		
S5	07/10/24	09:45	10	<10	<2	None	None	None	None	Green	71	Clear		
S6	07/10/24	09:24	10	<10	<2	None	None	None	None	Green		Clear		
WEST	07/10/24	09:21	<10	<10	2	None	None	None	None	Green		Clear		
S7	07/10/24	09:15	<10	<10	<2	None	None	None	None	Green		Clear		
S8	07/10/24	09:00	100	<10	<2	None	None	None	None	Green		Clear		
S9	07/10/24	08:55	<10	10	<2	None	None	None	None	Green		Clear		
ACM1	07/10/24	08:50	10	<10	2	None	None	None	None	Green		Clear		
S10	07/10/24	08:28	<10	<10	2	None	None	None	None	Green		Clear		
S11	07/10/24	08:35	<10	<10	<2	None	None	None	None	Green		Clear		
S12	07/10/24	08:39	<10	<10	<2	None	None	None	None	Green		Clear		

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

Unified Beach Monitoring #3

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: July 2024
REPORT DUE: September 1, 2024
SAMPLE SOURCE: Receiving water surf zone
TYPE OF SAMPLE: Grab

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

Tidal Condition: High Tide 08:16
Weather: Overcast
COMMENTS:

STA#	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S3	07/17/24	07:52	<10	10	4	None	None	None	None	Blue	68	Clear		
S4	07/17/24	09:53	20	20	4	None	None	None	None	Blue		Clear		
S5	07/17/24	09:40	30	10	2	None	None	None	None	Blue		Clear		
S6	07/17/24	09:24	<10	20	10	None	None	None	None	Blue		Clear		
WEST	07/17/24	09:16	10	30	10	None	None	None	None	Blue		Clear		
S7	07/17/24	09:09	>=20	30	68	None	None	None	None	Blue		Clear		
S8	07/17/24	08:51	30	10	2	None	None	None	None	Green		Clear		
S9	07/17/24	08:46	20	<10	4	None	None	None	None	Green		Clear		
ACM1	07/17/24	08:43	100	150	34	None	None	None	None	Brown		Clear		
S10	07/17/24	08:27	10	30	6	None	None	None	None	Blue		Clear		
S11	07/17/24	08:21	40	10	10	None	None	None	None	Blue		Clear		
S12	07/17/24	08:15	30	20	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 Monitoring #4

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: July 2024
REPORT DUE: September 1, 2024
SAMPLE SOURCE: Receiving water surf zone
TYPE OF SAMPLE: Grab

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

Tidal Condition: Low Tide 06:40
Weather: Clear
COMMENTS:

STA#	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S3	07/25/24	08:25	<10	<10	<2	None	None	None	None	Green		Clear		
S4	07/25/24	10:40	10	10	<2	None	None	None	None	Green	66	Clear		
S5	07/25/24	10:25	10	<10	<2	None	None	None	None	Green		Clear		
S6	07/25/24	10:00	<10	<10	<2	None	None	None	None	Green		Clear		
WEST	07/25/24	09:50	<10	<10	<2	None	None	None	None	Green		Clear		
S7	07/25/24	09:40	<10	<10	<2	None	None	None	None	Green		Clear		
S8	07/25/24	09:35	40	10	<2	None	None	None	None	Green		Clear		
S9	07/25/24	09:20	40	<10	2	None	None	None	None	Green		Clear		
ACM1	07/25/24	09:10	400	20	2	None	None	None	None	Green		Slightly Turbid	Flowing	
S10	07/25/24	08:55	<10	<10	<2	None	None	None	None	Green		Clear		
S11	07/25/24	08:45	<10	<10	<2	None	None	None	None	Green		Clear		
S12	07/25/24	08:40	<10	<10	<2	None	None	None	None	Green		Clear		

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

Unified Beach Monitoring #5

South Orange County Wastewater Authority-Aliso Creek Ocean Outfall

REPORT FOR: July 2024
REPORT DUE: September 1, 2024
SAMPLE SOURCE: Receiving water surf zone
TYPE OF SAMPLE: Grab

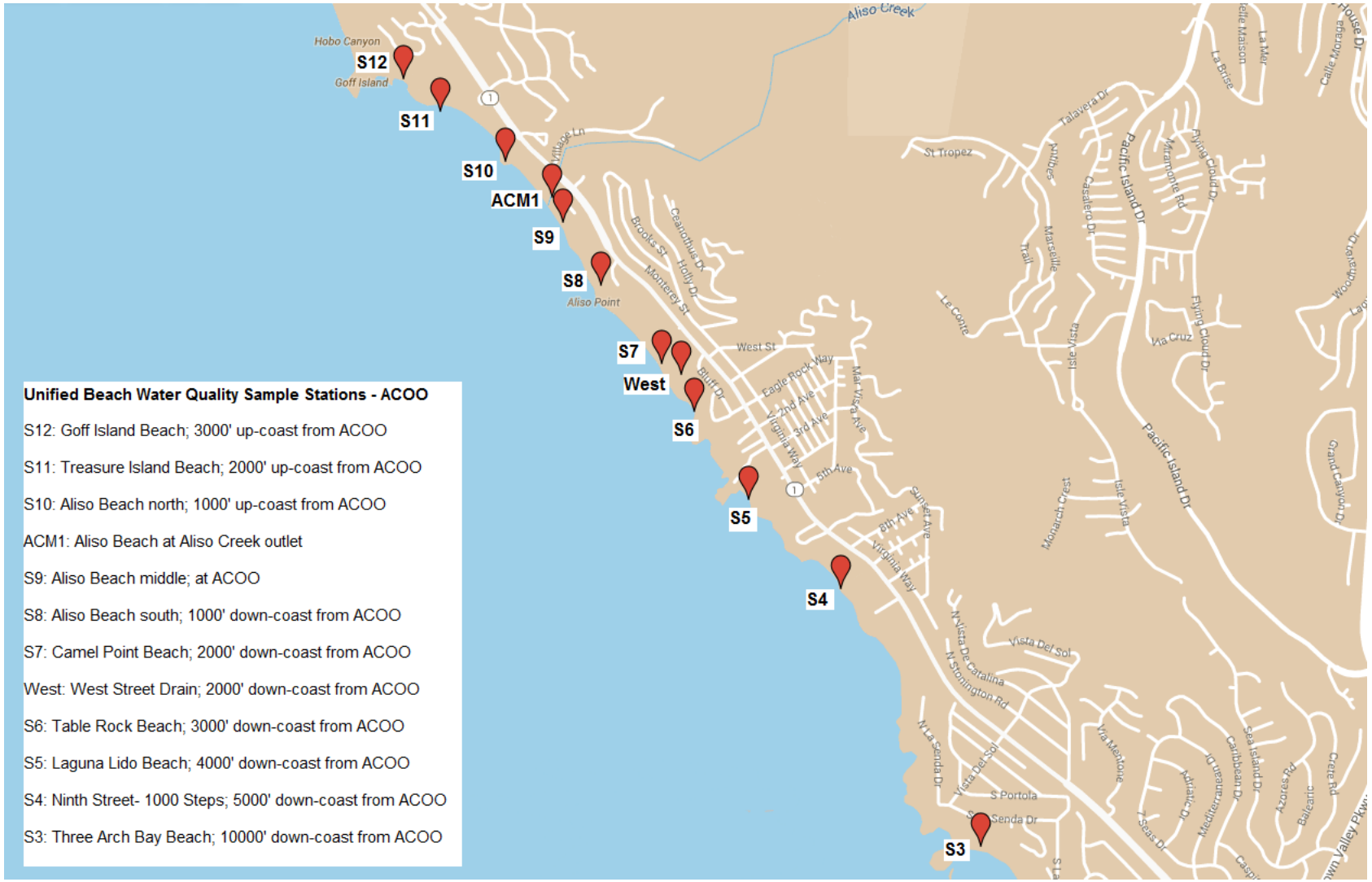
REPORT FREQUENCY: Monthly
EXACT SAMPLE POINTS: As specified in Unified Monitoring Plan
SAMPLES COLLECTED BY: SOCWA Lab
SAMPLES ANALYZED BY: SOCWA Lab

Tidal Condition: High Tide 08:26
Weather: Overcast
COMMENTS:

STA#	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S3	07/31/24	08:38	10	<10	<2	None	None	None	None	Blue	65	Clear		
S4	07/31/24	10:23	<10	<10	<2	None	None	None	None	Blue		Clear		
S5	07/31/24	10:10	40	<10	2	None	None	None	None	Blue		Clear		
S6	07/31/24	09:54	20	<10	2	None	None	None	None	Blue		Clear		
WEST	07/31/24	09:48	10	<10	2	None	None	None	None	Blue		Clear		
S7	07/31/24	09:42	20	<10	2	None	None	None	None	Blue		Clear		
S8	07/31/24	09:36	10	10	4	None	None	None	None	Blue		Clear		
S9	07/31/24	09:31	60	20	8	None	None	None	None	Blue		Clear		
ACM1	07/31/24	09:24	300	350	110	None	None	None	None	Blue		Clear		
S10	07/31/24	09:10	10	<10	<2	None	None	None	None	Blue		Clear		
S11	07/31/24	09:01	<10	<10	<2	None	None	None	None	Blue		Clear		
S12	07/31/24	08:55	<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 2024
Report Due: September 1, 2024
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 12:06

Sta No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris
A-1	Surface	07/23/24	<2	<2	<2	910	0	0
A-1	Mid depth	07/23/24	<10	<10	<10			
A-2	Surface	07/23/24	<2	<2	<2	826	0	0
A-2	Mid depth	07/23/24	<10	<10	<10			
A-3	Surface	07/23/24	<2	<2	<2	928	0	0
A-3	Mid depth	07/23/24	<10	<10	<10			
A-4	Surface	07/23/24	<2	<2	<2	935	0	0
A-4	Mid depth	07/23/24	<10	<10	<10			
A-5	Surface	07/23/24	<2	<2	<2	918	0	0
A-5	Mid depth	07/23/24	<10	<10	<10			
B-1	Surface	07/23/24	<2	<2	<2	812	0	0
B-1	Mid depth	07/23/24	<10	<10	<10			
B-2	Surface	07/23/24	<2	<2	<2	950	0	0
B-2	Mid depth	07/23/24	<10	<10	<10			
N1	Surface	07/23/24	2	<2	<2	1031	0	0
N2	Surface	07/23/24	<2	<2	<2	1026	0	0
N3	Surface	07/23/24	<2	<2	<2	1023	0	0
N4	Surface	07/23/24	<2	<2	<2	1020	0	0
N5	Surface	07/23/24	<2	<2	<2	1016	0	0
N6	Surface	07/23/24	<2	<2	<2	1010	0	0
N7	Surface	07/23/24	<2	<2	<2	1006	0	0

0 - None
1 - Mild
2 - Moderate
3 - Severe

REQUIREMENT: (1) Floating particulates and grease and oil shall not be visible. (2) The discharge of waste shall not cause aesthetically undesireable discoloration of the ocean surface.
Receiving Water Limitations: (1)30-Day geometric mean of fecal coliform density not to exceed 200CFU/100 mL calculated based on the five most recent samples from each site (2)single sample max not to exceed 400 CFU/100mL (3) Enterococcus 6-week rolling geometric mean not to exceed 30 CFU/100 mL, calculated weekly. (4) Statistical threshold value (STV) of 110 CFU/100 mL for enterococcus not to be exceeded by more than 10% of samples collected in a calendar month, calculated in a static manner

Compliance Summary Report
Aliso Creek Ocean Outfall 2024

ACOO Permit Order No. R9-2022-0006							
Agency - Facility	**Violation Date**	**Constituent**	**Effluent Limit Violation**	**Units**	**Permit Limit**	**Reported Value**	**Potential Fine**
No violations during this monitoring period.							

SOCWA and MEMBER AGENCY FACILITIES
ACOO Spill / Overflow Report Log - 2024
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 2024

	J.B. LATHAM FACILITY				SAN CLEMENTE WRP				SMWD CHIQUITA WRP				3-A PLANT				CSJC Desalter	SCWD Desalter	SJCOO	Rain
	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	TSS	cBOD	SS	FLOW	FLOW	FLOW	Fall
DATE	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	inches
07/01/24	8.010	17.0	13.2	<0.1	2.469	8.4	8.0	<0.1	0.000				0.202	5.8	4.2	<0.1	0.480	0.176	12.040	0.00
07/02/24	8.060	16.1	11.3	<0.1	1.806	7.6	8.0	<0.1	0.000				0.013	11.8	7.6	<0.1	0.470	0.030	12.140	0.00
07/03/24	8.050	9.5	6.5	<0.1	1.967	10.8	9.0	<0.1	0.035	1.3	4.0	0.1	0.028	9.6	7.0	<0.1	0.480	0.177	11.420	0.00
07/04/24	8.100	5.3	5.0	<0.1	1.965			0.2	0.000				0.020	15.8	9.5	0.3	0.460	0.174	11.920	0.00
07/05/24	8.040	9.7	7.4	<0.1	2.540	7.6	6.0	<0.1	0.001	2.0	2.5	<0.1	0.698	9.6	7.0	0.2	0.470	0.177	12.260	0.00
07/06/24	8.190	10.3	7.6		2.596	6.4	6.0		0.000				0.545				0.430	0.178	13.460	0.00
07/07/24	8.040	34.4	15.5	<0.1	2.485				0.000				0.601				0.440	0.172	12.620	0.00
07/08/24	8.110	15.6	9.0	<0.1	2.705	9.6	8.0	0.1	0.001	1.0	3.1	<0.1	0.661	8.0	5.7	<0.1	0.430	0.177	12.970	0.00
07/09/24	8.100	10.3	6.9	<0.1	2.667	9.0	6.0	<0.1	0.008	0.7	3.3	<0.1	0.055	8.6	6.0	<0.1	0.190	0.178	12.910	0.00
07/10/24	8.170	8.7	8.4	<0.1	1.882	8.9	6.0	<0.1	0.005	0.6	3.4	<0.1	0.325	6.4	5.2	<0.1	0.000	0.173	11.250	0.00
07/11/24	8.080	10.9	7.4	<0.1	1.947	8.4	6.0	<0.1	0.000				0.091	8.6	5.5	<0.1	0.280	0.176	11.080	0.00
07/12/24	8.200	9.3	6.7	<0.1	2.458	7.3	5.0	<0.1	0.000				0.025	7.6	5.8	<0.1	0.410	0.178	11.870	0.00
07/13/24	8.160	10.4	8.6	0.1	2.360		8.0		0.000				0.024				0.400	0.173	11.850	0.00
07/14/24	8.100	7.7	6.6	<0.1	2.745				0.000				0.066				0.400	0.177	12.120	0.00
07/15/24	8.130	7.9	8.3	0.1	2.465	8.7	7.0	0.1	0.000				0.025	10.4	7.0	<0.1	0.400	0.012	12.330	0.00
07/16/24	8.030	8.2	6.3	<0.1	3.063	10.2	11.0	0.2	0.000				0.017	9.4	6.3	<0.1	0.400	0.179	12.100	0.00
07/17/24	8.110	8.8	8.0	0.1	2.517	12.0	8.0	<0.1	0.102	5.0	4.6	0.2	0.007	7.2	5.5	<0.1	0.400	0.172	12.000	0.00
07/18/24	8.020	7.2	6.7	0.1	2.576	12.6	9.0	0.2	0.000				0.011	5.8	4.2	<0.1	0.400	0.177	12.150	0.00
07/19/24	8.150	6.3	5.7	<0.1	2.613	9.1	6.0	0.2	0.003	2.9	4.9	<0.1	0.010	8.0	6.0	<0.1	0.390	0.171	12.220	0.00
07/20/24	8.140	8.1	7.0	0.1	2.356		8.0		0.050	1.8	3.6	<0.1	0.021				0.090	0.179	12.270	0.00
07/21/24	8.150	6.5	8.6	<0.1	2.313	9.0	7.0	0.2	0.020	5.0	4.7	<0.1	0.018				0.000	0.176	11.850	0.00
07/22/24	7.980	8.4	5.4	<0.1	3.164	10.6	7.0	0.2	0.022	3.3	4.1	<0.1	0.006	7.4	5.0	<0.1	0.000	0.173	12.270	0.00
07/23/24	8.000	7.5	6.7	0.1	2.254	10.8	8.0	0.2	0.018	2.7	3.0	<0.1	0.012	7.4	5.5	<0.1	0.000	0.177	11.720	0.00
07/24/24	7.950	6.0	5.0	<0.1	2.531	10.2	9.0	0.1	0.014	1.8	2.8	<0.1	0.024	7.8	5.2	<0.1	0.000	0.179	11.530	0.00
07/25/24	8.000	11.9	8.4	<0.1	2.112	12.4	9.0	<0.1	0.007	2.2	2.8	<0.1	0.011	7.0	5.4	<0.1	0.000	0.014	11.230	0.00
07/26/24	7.980	7.6	8.2	<0.1	2.560	5.3	4.0	0.1	0.007	1.8	3.3	<0.1	0.008	6.4	4.9	<0.1	0.000	0.178	11.220	0.00
07/27/24	7.990	7.4	5.6		2.069	4.1	3.0	0.2	0.022	1.7	3.0	<0.1	0.045				0.000	0.174	10.550	0.00
07/28/24	8.060	7.6	6.0	<0.1	2.448				0.018	1.3	5.0	<0.1	0.062				0.000	0.177	11.240	0.00
07/29/24	7.890	8.8	6.6	0.1	2.219	19.6	11.0	0.5	0.007	2.7	4.4	<0.1	0.008	7.8	5.5	<0.1	0.000	0.176	11.040	0.00
07/30/24	7.880	7.6	6.3	<0.1	2.276	15.4	8.0	0.6	0.002	1.8	3.9	<0.1	0.037	8.8	6.2	<0.1	0.000	0.173	10.960	0.00
07/31/24	8.130	12.9	6.3	<0.1	1.832	13.4	7.0	0.2	0.016	1.9	3.5	<0.1	0.018	10.6	7.4	<0.1	0.000	0.177	11.150	0.00
AVG	8.065	10.1	7.6	<0.1	2.386	9.9	7.3	<0.2	0.012	2.2	3.7	<0.1	0.119	8.5	6.0	<0.1	0.239	0.161	11.863	
TOTAL	250.000				73.960				0.358				3.694				7.420	4.980	367.740	0.00

Unified Beach Monitoring #1

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: July 2024
REPORT DUE: September 1, 2024
SAMPLE SOURCE: Receiving water surf zone
TYPE OF SAMPLE: Grab

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

Tidal Condition: High Tide 07:06
Weather: Overcast
COMMENTS:

STATION #	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S0	07/01/24	09:10	80	40	10	None	None	None	None	Green		Turbid		
S1	07/01/24	09:25	<20	<20	<2	None	None	None	None	Green		Turbid		
S2	07/01/24	09:50	20	40	4	None	None	None	None	Green		Turbid		
DSB5	07/01/24	10:05	20	20	<2	None	None	None	None	Green	71	Turbid		
S3	07/01/24	09:27	<20	<20	<2	None	None	None	None	Green		Turbid		
DSB4	07/01/24	09:27	<20	<20	2	None	None	None	None	Green		Turbid		
S5	07/01/24	09:35	<20	<20	<2	None	None	None	None	Green		Turbid		
DSB1	07/01/24	09:40	<20	<20	<2	None	None	None	None	Green		Turbid		
SJC1	07/01/24	09:15	20	40	10	None	None	None	None	Green		Turbid	Flowing	

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

Unified Beach Monitoring #2

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: July 2024
REPORT DUE: September 1, 2024
SAMPLE SOURCE: Receiving water surf zone
TYPE OF SAMPLE: Grab

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

Tidal Condition: Low Tide 05:45
Weather: Overcast
COMMENTS:

STATION #	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S0	07/08/24	09:25	100	20	<2	None	None	None	None	Green		Slightly Turbid		
S1	07/08/24	09:10	40	<20	10	None	None	None	None	Green		Slightly Turbid		
S2	07/08/24	09:40	20	<20	2	None	None	None	None	Green	69	Slightly Turbid		
DSB5	07/08/24	09:55	80	40	<2	None	None	None	None	Brown		Turbid		
S3	07/08/24	09:00	<20	<20	4	None	None	None	None	Green		Slightly Turbid		
DSB4	07/08/24	08:50	<20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S5	07/08/24	08:40	20	<20	36	None	None	None	None	Green		Slightly Turbid		
DSB1	07/08/24	08:30	20	<20	62	None	None	None	None	Green		Slightly Turbid		
SJC1	07/08/24	09:30	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.

Unified Beach Monitoring #3

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: July 2024
REPORT DUE: September 1, 2024
SAMPLE SOURCE: Receiving water surf zone
TYPE OF SAMPLE: Grab

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

Tidal Condition: High Tide 07:22
Weather: Overcast
COMMENTS:

STATION #	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S0	07/16/24	08:18	20	<20	<2	None	None	None	None	Blue	70	Clear		
S1	07/16/24	08:24	40	<20	<2	None	None	None	None	Blue		Clear		
S2	07/16/24	08:06	<20	20	6	None	None	None	None	Green		Slightly Turbid		
DSB5	07/16/24	08:02	20	<20	<2	None	None	None	None	Green		Slightly Turbid		
S3	07/16/24	08:40	<20	<20	<2	None	None	None	None	Blue		Clear		
DSB4	07/16/24	08:34	<20	<20	<2	None	None	None	None	Blue		Clear		
S5	07/16/24	08:52	20	20	4	None	None	None	None	Blue		Clear		
DSB1	07/16/24	09:12	20	20	2	None	None	None	None	Blue		Clear		
SJC1	07/16/24	08:36	40	<20	<2	None	None	None	None	Green		Slightly Turbid		

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

Unified Beach Monitoring #4

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: July 2024
REPORT DUE: September 1, 2024
SAMPLE SOURCE: Receiving water surf zone
TYPE OF SAMPLE: Grab

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

Tidal Condition: Low Tide 04:57
Weather: Clear
COMMENTS:

STATION #	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S0	07/22/24	09:13	<20	<20	<2	None	None	None	None	Green		Turbid		
S1	07/22/24	09:25	<20	<20	<2	None	None	None	None	Green		Turbid		
S2	07/22/24	09:55	<20	20	<2	None	None	None	None	Green		Turbid		
DSB5	07/22/24	08:55	200	40	24	None	None	None	None	Brown	70	Turbid		
S3	07/22/24	09:27	<20	<20	<2	None	None	None	None	Green		Turbid		
DSB4	07/22/24	09:27	<20	<20	<2	None	None	None	None	Green		Turbid		
S5	07/22/24	09:35	<20	<20	2	None	None	None	None	Green		Turbid		
DSB1	07/22/24	09:40	100	<20	<2	None	None	None	None	Green		Turbid		
SJC1	07/22/24	09:14	<20	<20	<10	None	None	None	None	Green		Turbid		

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

Unified Beach Monitoring #5

South Orange County Wastewater Authority-San Juan Creek Ocean Outfall

REPORT FOR: July 2024
REPORT DUE: September 1, 2024
SAMPLE SOURCE: Receiving water surf zone
TYPE OF SAMPLE: Grab

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

Tidal Condition: Low Tide 10:01
Weather: Clear
COMMENTS:

STATION #	DATE	TIME	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Material of Sewage Origin Onshore	Material of Sewage Origin Offshore	Oil & Grease	Odor	Water Color	H20 Temp(F)	Water Condition	Water Outlet	Birds
S0	07/29/24	08:36	20	<20	<2	None	None	None	None	Blue	67			
S1	07/29/24	08:41	<20	<20	<2	None	None	None	None	Blue				
S2	07/29/24	09:45	<100	<20	<2	None	None	None	None	Green				
DSB5	07/29/24	09:56	<100	<20	6	None	None	None	None	Green				
S3	07/29/24	09:07	<20	<20	<2	None	None	None	None	Green				
DSB4	07/29/24	09:03	<20	<20	<2	None	None	None	None	Green				
S5	07/29/24	09:22	<20	<20	<2	None	None	None	None	Green				
DSB1	07/29/24	09:28	<20	<20	<2	None	None	None	None	Green				
SJC1	07/29/24	08:50	20	<20	2	None	None	None	None	Green				

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.

Compliance Summary Report
San Juan Creek Ocean Outfall 2024

SJCOO Permit Order No. R9-2024-0005							
Agency	**Violation Date**	**Constituent**	**Effluent Limit Violation**	**Units**	**Permit Limit**	**Reported Value**	**Potential Fine**
SOCWA	5/14/2024	Chronic Toxicity	Quarterly	TUc	>=101	101	$3,000
SMWD	5/31/2024	Oil & Grease	Deficient Monitoring	mg/L	Weekly	N/A	$3,000

SOCWA and MEMBER AGENCY FACILITIES
SJCOO Spill / Overflow Report Log - 2024
Order No. R9-2024-0005 ~ 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.							

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 Outfal

Report For: July 2024

Report Due: September 1, 2024

Report Frequency: Monthly

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

Low Tide 06:02

Samples Analyzed By: SOCWA Lab

Comments:

Station No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Entero-coccus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris
A-1	Surface	07/24/24	<2	<2	<2	08:15	0	0
A-1	Mid depth	07/24/24	<10	<10	<10			
A-2	Surface	07/24/24	<2	<2	<2	08:10	0	0
A-2	Mid depth	07/24/24	<10	<10	<10			
A-3	Surface	07/24/24	<2	<2	<2	08:31	0	0
A-3	Mid depth	07/24/24	<10	<10	<10			
A-4	Surface	07/24/24	<2	2	<2	08:40	0	0
A-4	Mid depth	07/24/24	20	10	<10			
A-5	Surface	07/24/24	<2	<2	<2	08:23	0	0
A-5	Mid depth	07/24/24	<10	<10	<10			
B-1	Surface	07/24/24	<2	<2	<2	07:59	0	0
B-1	Mid depth	07/24/24	<10	<10	<10			
B-2	Surface	07/24/24	<2	<2	<2	08:50	0	0
B-2	Mid depth	07/24/24	<10	<10	<10			
N1	Surface	07/24/24	<2	<2	<2	07:47	0	0
N2	Surface	07/24/24	<2	<2	<2	07:41	0	0
N3	Surface	07/24/24	<2	<2	<2	07:36	0	0
N4	Surface	07/24/24	<2	<2	<2	07:28	0	0
N5	Surface	07/24/24	<2	<2	<2	07:24	0	0
N6	Surface	07/24/24	<2	<2	<2	07:19	0	0

0 - None
1 - Mild
2 - Moderate
3 - Severe

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

Receiving Water Limitations: (1)30-Day geometric mean of fecal coliform density not to exceed 200CFU/100 mL calculated based on the five most recent samples from each site (2)single sample max not to exceed 400 CFU/100mL (3) Enterococcus 6-week rolling geometric mean not to exceed 30 CFU/100 mL, calculated weekly. (4) Statistical threshold value (STV) of 110 CFU/100 mL for enterococcus not to be exceeded by more than 10% of samples collected in a calendar month, calculated in a static manner

Recycled Water Report

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending: 30-Jul-24

Constituent	Units	12-month Avg Maximum Permit Limit	TCWD 12-month Average	SMWD Oso 12-month Average	SMWD Chiquita 12-month Average	SMWD Nichols 12-month Average	MNWD-3A 12-month Average	MNWD-RTP 12-month Average	SCWD-CTP 12-month Average ***
TDS	mg/L	1000	939	Offline	932	920	1,142	1,296	1,142
Chloride	mg/L	375	212	Offline	223	258	270	254	249
Sulfate	mg/L	400	310	Offline	263	210	338	357	328
Sodium	mg/L	None	53	Offline	160	187	-	150	180
Alkalinity	mg/L	None	-	Offline	-	-	-	259	209
Adjusted SAR	Ratio	None	3.72	Offline	4.77	5.75	3.10	3.55	4.25
Iron	mg/L	0.3	0.041	Offline	0.105	0.041	0.18	0.186	0.148
Manganese	mg/L	0.05	0.000	Offline	0.033	0.014	0.10	0.132	0.092
MBAS	mg/L	0.5	ND	Offline	ND	ND	<0.05	<0.10	<0.10
Boron	mg/L	0.75	0.308	Offline	0.240	0.223	0.30	0.328	0.31
Fluoride	mg/L	None	0.68	Offline	0.82	1.10	0.78	0.78	0.82
Total Organic Carbon	mg/L	None	6.1	Offline	7.8	6.1	2.8	8.9	7.8

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

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

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

QUARTERLY RECYCLED WATER MONITORING

Monitoring Period Ending: Jul 31, 2024

Constituent	Units	12-month Avg Maximum Permit Limit	TCWD 12-month Average	SMWD Oso 12-month Average	SMWD Chiquita 12-month Average	SMWD Nichols 12-month Average	MNWD-3A 12-month Average	MNWD-RTP 12-month Average	SCWD-CTP 12-month Average ***
TDS	mg/L	1000	939	Offline	932	920	1,142	1,296	1,142
Chloride	mg/L	375	212	Offline	223	258	270	254	249
Sulfate	mg/L	400	310	Offline	263	210	338	357	328
Sodium	mg/L	None	53	Offline	160	187	-	150	180
Alkalinity	mg/L	None	-	Offline	-	-		259	209
Adjusted SAR	Ratio	None	3.72	Offline	4.77	5.75	3.10	3.55	4.25
Iron	mg/L	0.3	0.041	Offline	0.105	0.041	0.18	0.186	0.148
Manganese	mg/L	0.05	0.000	Offline	0.033	0.014	0.10	0.132	0.092
MBAS	mg/L	0.5	ND	Offline	ND	ND	<0.05	<0.10	<0.10
Boron	mg/L	0.75	0.308	Offline	0.240	0.223	0.30	0.328	0.31
Fluoride	mg/L	None	0.68	Offline	0.82	1.10	0.78	0.78	0.82
Total Organic Carbon	mg/L	None	6.1	Offline	7.8	6.1	2.8	8.9	7.8

*** 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)

2024

Agency	Facility or Region	Jan '24	Feb '24	Mar '24	Apr '24	May '24	Jun '24	Jul '24	Aug '24	Sep '24	Oct '24	Nov '24	Dec '24	Annual Totals
CSJC 1	3-A Plant/MNWD	0.00	0.00	0.16	0.00	0.00	36.93	0.18						37.27
CSJC 2	Chiquita/SMWD	8.32	4.19	3.20	2.87	20.47	38.18	57.89						135.12
CSJC 3	Non-Domestic Well	4.26	.00	13.67	28.43	40.12	39.27	44.50						170.25
ETWD	Region 8	17.23	9.21	19.77	44.84	141.28	184.07	239.18						655.58
IRWD														
[4]	IRWD - 8	26.18	7.83	13.06	35.61	161.66	177.76	258.74						680.84
[4]	IRWD - 9	9.80	2.87	7.17	17.10	60.71	71.22	106.43						275.29
SCWD	SOCWA CTP	30.54	.08	23.56	40.84	50.19	64.15	73.76						283.12
MNWD	JRP	210.93	154.61	24.95	95.72	315.57	380.57	526.99						1709.35
	3-A Plant	0.00	0.00	0.00	0.00	143.15	148.12	155.04						446.31
[5]	CTP	3.04	-1.49	-3.55	-10.31	-12.70	-7.68	4.31						-28.37
SMWD	Oso Creek	Offline	Offline	Offline	Offline	Offline	Offline	Offline						
	Chiquita	535.21	513.58	536.29	494.52	494.67	485.16	512.29						3571.72
	Nichols	1.61	1.68	1.46	1.39	1.43	1.66	2.08						11.30
TCWD	RRWRP	39.21	39.85	43.29	41.57	41.62	39.15	39.18						283.87
TOTALS		886.30	732.41	683.04	792.57	1458.17	1658.57	2020.56						8231.61

1 Denotes transfer of recycled water from MNWD (3A Plant) for use in the CSJC service area. Not counted as additional production.

2 Denotes recycled water purchased from SMWD Chiquita-WRP used in the CSJC service area. Not counted as additional production.

3 Denotes nondomestic groundwater produced from wells used for landscape irrigation.

4 IRWD production is from recycled water production, nonpotable water wells, and surface water impoundments

5 Denotes transfer of recycled water from SCWD (SOCWA CTP) for use in the MNWD service area. Not counted as additional production.

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

NR = No Report

Pretreatment Report

Agenda Item

Legal Counsel Review: No

Meeting Date: September 5, 2024

TO: Board of Directors

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

STAFF CONTACT: Katie Greenwood, Source Control Manager

SUBJECT: Monthly Pretreatment Report – August 2024
San Juan Creek Ocean Outfall
NPDES Permit #CA0107417 Order # R9-2022-0005
Aliso Creek Ocean Outfall
NPDES Permit #CA0107611 Order # R9-2022-0006

Summary of Program Activities

RWQCB-SD Staff conducted a Pretreatment Compliance Audit (PCA) of SOCWA's Pretreatment Program in-person on June 18, 2024, and by electronic correspondence over the proceeding weeks. Staff received the PCA Report by email on July 15, 2024. The following two categorical industrial user (CIU) facility files were reviewed: Glaukos (WD Permit #CSC-NS1-003) and Applied Medical (WD Permit #SMWD-1-003). Both facilities were also inspected on June 18, 2024, as part of the audit process:

- The PCA Report includes zero required actions for resolution and two recommendations for program improvement: 1.) Update all pretreatment interagency agreements to include language in the agreements for the member agencies' sewer use ordinances (SUO) to be no less stringent than SOCWA's ordinance, to update the information (e.g. agency name from AWMA to SOCWA), and to review/update SOCWA's and the member agencies' services and responsibility and ensure member agencies' SUO is consistent with and at least as stringent as SOCWA's SUO. 2.) SOCWA and/or its member agencies hire additional staff to ensure the remaining dental facilities comply with the Dental Rule requirement per 40 CFR Part 441.

- Staff is preparing a PCA Response letter to address the recommendations and to correct inconsistencies within the Report related to SOCWA's pretreatment program and SOCWA's operations and is aiming to submit the Response to the RWQCB-SD before October 13, 2024. Both the PCA Report and Response will be distributed to key MA Staff.

Permit Related Activities

The following Wastewater Discharge (WD) Permits, Special Wastewater Discharge (SWD) Permits, Nuisance Water-Special Wastewater Discharge (NSWD) Permits, Non-Industrial Wastewater Discharge (NIWD) forms, and BMP letters were issued or are in the process of being drafted for issuance:

SCWD – WD Permit No. SCWD-2-001-08-29 for Dana Point Shipyard (DPS) – Renewal WD Permit to continue to allow process wastewater to be discharged to the sewer. A permit application was received July 30, 2024, and a renewal, five-year term permit was issued on August 21, 2024.

IRWD – Applied Medical – Staff issued a BMP letter on August 14, 2024, granting permission to flush and discharge wastewater as a one-time event from new utilities located at *20202 Windrow Drive, Lake Forest, CA 92630*. The discharge occurred over three weeks, commencing on August 19th and continuing through August 23rd. Then, discharging again on August 26th through August 30th. And the final discharge is to occur September 3rd-September 6th. The daily discharge flow was limited to no more than 15,120 gpd and a flow rate of 20 gpm. The BMP letter requires flow and pH records to be kept for a minimum of three years and made available upon request. Further, SOCWA Staff reviewed and have a copy of the SDS records associated with chemicals used to maintain utilities.

SMWD – Applied Medical – Similar to years' past, Staff issued a BMP letter on August 26, 2024, granting permission to discharge wastewater as a one-time event from two Chillers located at *30200 Avenida de las Banderas in Rancho Santa Margarita*. The discharge occurred over two days (August 27 & 28) and were capped at 1,200 gpd and 20 gpm. The BMP letter requires flow and pH records to be kept for a minimum of three years and made available upon request. Further, SOCWA Staff reviewed and have copies of the SDS records associated with chemicals used to maintain Chillers.

Trainings and Committee Meetings Attended

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

On August 22, 2024, Staff participated in the monthly CWEA SARBS BOD meeting participating as the sub-committee P3S Chair. The P3S and Lab sub-committees are jointly creating a PFAS training event to be held at IEUA on October 15, 2024.

Staff continues to complete in-house training as scheduled related to confined space requirements, workplace violence prevention, and CPR certification.

Inspections

SOCWA Staff will soon start 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.

IRWD - On August 19-20, 2024, SOCWA Staff performed the annual inspection and sampling event of Dynacast. The inspection yielded no findings. Sampling results are pending.

Summary of IWS Activities in SOCWA's Service Area - YTD through August 21, 2024

MA IUs	Events	Permits	NIWD	BMPs	FSEs	OSEs	DSEs	Closed	Enforcement	Total IUs
CLB (S)	0	2	2	5	8	110	15	0	0	143
CSC (S)	22	11	35	18	188	1263	38	4	0	1553
CSJC (S)	6	0	27	59	143	1690	30	1	0	1949
ETWD (M)	2	0	88	0	262	132	50	0	0	488
EBSD (U)	0	1	0	0	0	0	0	0	0	1
IRWD (S)	1	5	51	21	63	915	18	0	0	1073
MNWD (S)	66	5	120	38	655	2141	150	15	2	3109
SMWD (S)	28	9	19	20	215	842	52	5	1	1157
SCWD (S)	0	7	33	7	148	186	15	0	1	397
TCWD (S)	0	0	11	0	7	33	2	0	0	51
SOCWA (S)	0	5	1	0	0	0		0	1	6
Totals	125	45	387	168	1689	7312	370	25	5	**9927**

(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.D.

Board of Directors Meeting

Meeting Date: September 5, 2024

TO: Board of Directors

FROM: Amber Boone, Director of Environmental Compliance

SUBJECT: Use Audit Flows and Solids FY 2023-24

Summary

The Use Audit flow allocation methodology has relied on historical practice for allocation of costs. This agenda item reviews the methodology per project committee (PC), which is presented to the Engineering Committee and SOCWA Board members on an annual basis for review, comment, and use in the annual Use Audit for FY 2023-24.

Results

Captured herein are the methodologies employed and the results by member agency based on the raw and calculated data, which have been distributed to Engineering Committee members for review and comment. Please note that PC 5 and PC 24 are attributed to fixed costs.

PC 2

Member agency average flows for the FY were used in the flow allocation and applied proportionally from the total combined flow from each tributary trunk line. The PC 2 uses FY flows and three-year FY average solid loadings to reconcile the budgeted amounts. Solids loadings are calculated by 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 Moulton Niguel Water District (MNWD) and Santa Margarita Water District (SMWD) came to an agreement on how to allocate solids for budgeting and use audit purposes. The new method captures the influent loading at Plant 3A as it was recognized that this allocation would isolate MNWD's solids contributions to 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. Based on the discussion at the August 15, 2024, Engineering Committee meeting, SOCWA staff performed a 10-year analysis of the 1.4mgd constant value utilized in the memo for consideration and discussion by MNWD and SMWD for future budget scenarios.

Summary results for PC2 are included in Table 1. The total sum of the metered flows on the line influent into the JB Latham facility was 8.12 mgd. Calculated values with the 1.4mgd constant from MNWD is 8.0 mgd. The percentage difference between metered and billing flows was 1.5%.

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Table 1: PC2 Liquids and Solids Summary Table

PC2 - JB Latham Plant					
Liquids Summary (mgd)					
	FY 23-24	**FY 23-24**	**FY 23-24**	**FY 23-24**	**Total**
Member Agency	**Budgeted Flow (mgd)**	**Budgeted Percent**	**Total Avg. Flow (mgd)**	**Total Billing Flow (mgd)**	**Total Billing (%)**
San Juan Trunkline (1)	2.24		2.23		
MNWD (2)	Constant	19.08 %	Constant	1.40	17.50 %
SCWD	1.74	23.75 %	1.79	1.79	22.38 %
Oso-Trabuco Trunkline/SMWD (1),(2),(3)	3.36	57.17 %	3.98	4.81	60.13 %
	7.34	100.00 %	8.00	8.00	100.00 %
Solids Summary Loading (mgd)					
	FY 23-24	**FY 23-24**	**Total**	**Total**	**Total**
Member Agency	**Budgeted Solids (pounds)**	**Budgeted Percent (%)**	**Total Solids (pounds)**	**Billing Solids (pounds)**	**Total Billing (%)**
San Juan Trunkline (1)			6619.84		
MNWD (2)	5,134.17	19.29 %	Constant	5,101.24	18.74 %
SCWD	6,279.59	23.59 %	6421.54	6,421.54	23.59 %
Oso-Trabuco Trunkline/SMWD (1),(2),(3)	15,206.71	57.12 %	14174.82	15,693.42	57.66 %
	26,620.47	1.00	27216.20	27,216.20	100.00%

(1) San Juan Trunkline was previously allocated to the City of San Juan Capistrano (CSJC). With the acquisition of CSJC's flow by SMWD, the flows are included in SMWD's total flows and solids loading and included for clarity in total flows and solids contribution due to the sharing of the Oso-Trabuco line by SMWD and MNWD.

(2) Please refer to the MNWD & SMWD Agreement from 2018 for flow/solids splitting in the Oso-Trabuco line.

(3) SMWD Includes Flow from San Juan Creek trunkline flow plus Oso Trabuco flow split minus the 1.4mgd flow constant from MNWD

PC 12

The PC 12 method of production is detailed by member agency in the following narrative. San Juan Capistrano is the acre-foot sum of the Rosenbaum well, the Mission Street Well, and the total reclaimed water from the SMWD/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). The Santa Margarita Water District (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 PC2 are included in Table 2.

Table 2: PC12 Liquids Summary Table

PC 12 Recycled Water		
Master Recycled Water Permit		
FY 23-24		
Member Agency	**Region 9 Recycled Production FY 23-24 (AF)**	**% RW Produced FY 2023-2024 %**
MNWD	4,436.66	36.03%
SCWD	602.81	4.90%
SMWD	6,794.19	55.18%
TCWD	478.70	3.89%
Total	12,312.36	100.00%

PC 15

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 are 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 the monthly meter reads 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 PC2 are included in Table 3.

Table 3: PC15 Liquids and Solids Summary Table

PC 15 Coastal Treatment Plant FY 23-24 Flows		
Member Agency	**Plant Flows MGD**	**Plant Flow Percent**
CLB	1.66	57.84%
EBSD	0.07	2.44%
SCWD	1.14	39.72%
MNWD	0.00	0.00%
Total	2.87	100.00%

PC 17

PC 17 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 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. The meter calibration is performed annually in June. Summary results for PC17 are included in Tables 4 and 5 with significant digits to the ten thousand digits due to lower comparative flows of the centrate.

Table 4 & 5: PC 17 Liquids (Table 4) and Solids (Table 5) Summary Tables

PC 17 - RTP FY 23-24 Liquids				
Member Agency	**Plant Flow (MGD)**	**Centrate Flow (MGD)**	**Total Flow (MGD)**	**Total Liquid Flow (%)**
CLB	0.00	0.0161	0.0161	0.2123%
EBSD	0.00	0.0007	0.0007	0.0093%
SCWD	0.00	0.0109	0.0109	0.1440%
ETWD	0.00	0.0150	0.0150	0.1978%
MNWD	7.49	0.0657	7.5557	99.4366%
Total	7.49	0.1085	7.5985	100.0000%

PC 17 - RTP FY 23-24 Solids		
Member Agency	**Lbs/Day**	**Solids (%)**
CLB	5,729.40	15.04%
ETWD	5,088.17	13.36%
EBSD	252.72	0.66%
MNWD	23,142.01	60.75%
SCWD	3,879.28	10.18%
Total	38,091.58	100.00%

Previous Committee Review

This Use Audit data was presented at the August 2024 Engineering Committee meeting, and the raw data was reviewed and approved by the Engineering Committee members. SOCWA staff will utilize the flows and solids presented herein for the FY 2023-24 Use Audit.

Recommended Action: The Engineering Committee recommends that the Board of Directors approve the Use Audit calculated results for the close of the Use Audit for disbursement or collection of additional funds in FY 2023-24.

Agenda Item 5.E.

Board of Directors Meeting

Meeting Date: September 5, 2024

TO: Board of Directors

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

STAFF CONTACT: Roni Grant, Associate Engineer

SUBJECT: Capital Improvement Program Status Report (August)

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

J.B. Latham Centrate Line Upgrades
Replacement of valves and piping in the centrate system located in the Dewatering Building.

The work has been complete with no change orders.

Coastal Treatment Plant Diffusers Upgrades
Replacement of diffusers and air headers in the aeration basins.

The contractor completed the installation of fine-bubble diffusers in the first three basins.

Upcoming Projects

- JBL Scum Line Replacement
- JBL Stormwater Pump Station Roof Replacement
- JBL MCC Pre-Purchasing
- CTP Aeration Deck Grating Replacement
- CTP Personnel Building Reconstruction

Recommended Action: Information Item.

SOCWA CIP Workplan

Project Number	Project Name	Project Budget	Status	FY 2023/2024				FY 2024/2025			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PC 2 - J.B. Latham Treatment Plant											
3220/3231/3287	Facility Improvements B		Construction complete								
32234L	Chlorine Contact Basin Isolation Gates and Structural Rehab	$ 165,736						D	D	B&A	C
32231C	Process Water Repiping	$ 50,000						P	P	D	D
3216/32225S	Energy Building Upgrades	$ 2,037,000	Design being awarded				P	D	D	D	B&A
3252	MCC M and G Replacement	$ 1,882,988	Prepurchase underway	D	D	D	D	B&A	C	C	C
3234	Centrate Piping Reconstruction	$ 648,794	Complete	D	B&A	C	C	C	C		
32226L	Effluent Pump Station Upgrades	$ 950,000	Design being awarded				P	D	D	D	B&A
32233S	Scum Line Replacement	$ 150,000	Awarding construction contract			D	D	B&A	C		
32244S	Digester Gas and Flare Piping Improvements	$ 75,000				P	P	D	D	D	D
32243L	Plant 2 Headworks Rehabilitation	$ 200,000	Design underway			P	D	D	D	B&A	C
32244L	Plant 2 Primary Clarifier Condition Assessment	$ 50,000	Complete			P	CA				
32243C	SCADA Server Replacement	$ 200,000	Bidding underway			B&A	B&A	C	C		
PC 5 - San Juan Creek Ocean Outfall											
36241O	SJCOO Outfall Ballast Repairs	$ 250,000	Complete		D	B&A	C				
PC 15 - Coastal Treatment Plant											
3541	Export Sludge Environmental Mitigation	$ 1,392,100	Mitigation work/permitting ongoing	ENV	ENV	ENV	ENV	ENV	ENV	ENV	ENV
35228L	Aeration Diffuser Replacement	$ 1,250,000	Construction underway	D	B&A	C	C	C	C		
3525	Personnel Building Reconstruction	$ 471,586	Design underway	D	D	D	D	B&A	C	C	C
35221L	Auxiliary Blower Building Roof	$ 250,000	Bidding underway					B&A	C	C	C
3522AL	Drainage Pump Station	$ 500,000	Final design award underway	D	D	D	D	D	D	B&A	C
35235L	Odor Control Scrubber Improvements	$ 1,447,600	RFP being prepared			P	P	D	D	D	B&A
35245L	Aeration Deck Grating Replacement	$ 50,000	Awarding construction contract		D	D	B&A	C	C		
35246L	West Primary Sludge Skimmers and Launders/Weirs	$ 150,000	Prepurchase underway		D	D		B&A	C	C	C
35247L	Aeration Blower System Upgrades	$ 75,000	Planning underway		P	P	P	P	P	D	D
35249L	SCADA Server Replacement	$ 200,000	Bidding underway			B&A	B&A	C	C		

SOCWA CIP Workplan

Project Number	Project Name	Project Budget	Status	FY 2023/2024				FY 2024/2025			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PC 17 - Regional Treatment Plant											
3742	Aeration System Upgrades	$ 3,531,085							P	P	D
37241L	Grit/Primary Grating/Gate Replacement	$ 150,000	Design underway					D	D	D	B&A
37242L	Aeration Influent/Effluent Gate Replacement	$ 100,000	Design underway					D	D	D	B&A
3722AL/37236S /3779/37244C	MCC Replacement/Power System Improvements	$ 2,337,197	Deign contract being awarded		P	P	P	D	D	D	D
37245S	Digester Gas System Improvements	$ 200,000	Phase 1 - Complete				D	D	D	B&A	C
37246S	Digester 1 Piping Replacement	$ 250,000	Condition assessemnt complete				CA	D	D	D	B&A
37247S	Odor Scrubber 1 Replacement	$ 15,000						P	P	D	D
37243C	SCADA Server Replacement	$ 200,000	Bidding underway			B&A	B&A	C	C		
PC 21 - Effluent Transmission Main											
3105/3106/ 3107/3108	Air Valve Replacement	$ 2,226,210	Design underway	D	D	D	D	ENV	B&A	B&A	C
3101/31221B	Trail Bridge Crossing	$ 1,859,987	Planning/design underway	P	P	P	P	ENV	ENV	ENV	ENV
PC 24 - Aliso Creek Ocean Outfall											
34241O	ACOO Outfall Ballast Repairs	$ 280,000	Complete		D	B&A	C				

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

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

Agenda Item 5.F.

Board of Directors Meeting

Meeting Date: September 5, 2024

TO: Board of Directors

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

STAFF CONTACT: Roni Grant, Associate Engineer

SUBJECT: Capital Improvement Construction Projects Progress and Change Order Report (August) [Project Committees 2 and 15]

Overview

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

Project Updates

JBL Centrate Line Upgrades
SS Mechanical finished the project with no change orders.

CTP Diffusers Replacement
The contractor completed the installation of fine-bubble diffusers in the first three basins.

Upcoming Projects

- JBL Scum Line Replacement
- JBL Stormwater Pump Station Roof Replacement
- JBL MCC Pre-Purchasing
- CTP Aeration Deck Grating Replacement
- CTP Personnel Building Reconstruction

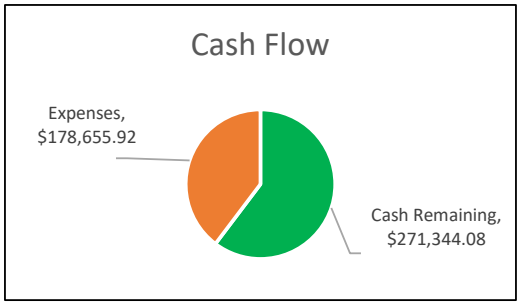
Recommended Action: Information Item.

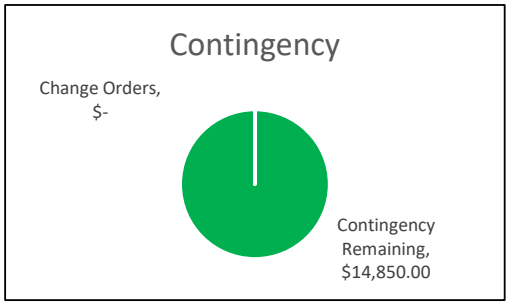
Project Financial Status

Project Committee	2
Project Name	Centrate Line Upgrades - 3234
Project Description	Removal and replacement of centrate drain piping, non-potable water piping in the Solids Dewatering Building

Data Last Updated

August 8, 2024





Cash Flow

Collected	$ 450,000.00
Expenses	$ 178,655.92

Project Completion

Schedule	100%
Budget	81%

Contracts

Company	PO No.	Original	Change Orders*	Total	Costs to Date
S&S Mechanical	19635	$ 148,455.00		$ 148,455.00	$ 148,455.00
Kleinfelder	14234	$ 71,374.00	$ -	$ 71,374.00	$ 6,625.25
SOCWA Staff Time	3234	$ -	$ -	$ -	$ 23,575.67
		$ 219,829.00	**$ -**	**$ 219,829.00**	**$ 178,655.92**

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

Contingency

Area	Project Code	Amount	Change Orders*	Total Remaining	Percent Used
Solids	3234	$ 14,850.00		$ 14,850.00	0.0%
		$ 14,850.00	**$ -**	**$ 14,850.00**	**0.0%**

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

Change Orders

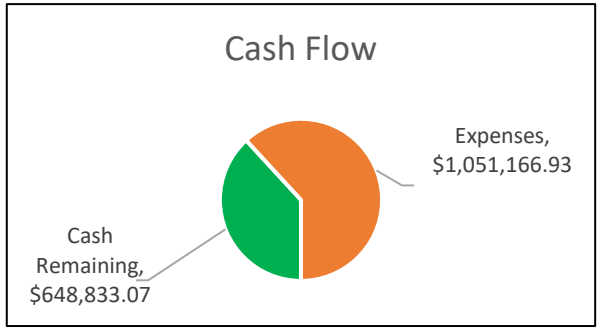
Change Order No.	Vendor Name	Project ID	Description	Status Date	Days	Amount
						$ -

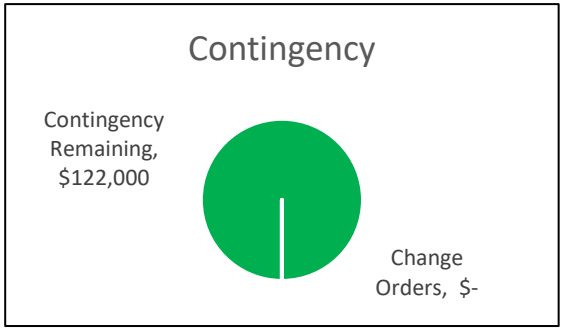
Project Financial Status

Project Committee	15
Project Name	CTP Diffusers
Project Description	Replacement of diffusers in the aeration basins

Data Last Updated

August 8, 2024





Cash Flow

Collected	$ 1,700,000.00
Expenses	$ 1,051,166.93

Project Completion

Schedule	60%
Budget	88%

Construction Contracts

Company	PO No.	Original	Change Orders	Amendments	Total	Costs to Date
Filanc	19640	$ 1,022,250.00			$ 1,022,250.00	$ 512,724.78
EDI	16620	$ 250,490.00			$ 148,455.00	$ 250,490.00
Hazen	17256/19641	$ 93,578.00			$ 6,625.25	$ 251,320.50
SOCWA Staff Time	35228L				$ 23,575.67	$ 36,631.65
		$ 1,366,318.00	**$ -**	**$ -**	**$ 1,200,905.92**	**$ 1,051,166.93**

**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	35228L	$ 122,000.00		$ 122,000.00	0.0%
		$ 122,000.00	**$ -**	**$ 122,000.00**	**0.0%**

Change Order No.	Vendor Name	Project ID	Description	Status Date	Days	Amount
1	Filanc	35228L	Contract Extension	4/4/2024	273	$ -
						$ -

Agenda Item 6.A

Board of Directors Meeting

Meeting Date: September 5, 2024

TO: Board of Directors

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

STAFF CONTACT: Roni Grant, Associate Engineer

SUBJECT: Coastal Treatment Plant (CTP) Drainage Pump Station Final Design [Project Committee 15]

Overview

The Coastal Treatment Plant (CTP) Drainage Pump Station (DPS) was originally built in 1967 and modified in 1987. The original purpose of the DPS was to handle all incoming flows from the north influent sewer. The DPS is located adjacent to the facility property line, next to Aliso Creek, and is within the flood zone of the creek.

Currently, there are no flows from the north influent sewer, but the DPS still handles all drainage flows at the facility. Flows include stormwater, process return flows (tank drains, AWT backwash, etc.), and building drains. Originally, the DPS discharged into an influent force main just before it entered the Headworks Facility. In 2019, the influent force main was rehabilitated, and the DPS discharge location was changed to the primary influent channel.

No major upgrades have occurred since 1987, and the DPS is now in need of rehabilitation and modifications to ensure proper and effective operations. The DPS was included as part of the Facility Improvements Project but was removed from the scope because not all potential flows were accounted for.

SOCWA retained Tetra Tech in 2019 to design the upgrade of the north drainage system and in 2023 to perform the conceptual design of the DPS, including a wet well condition assessment. The conceptual design was completed earlier in 2024.

The final design project elements include the following:

- Review the wet well condition assessment report and conceptual design report as the basis of design for the final design.
- Design a new discharge location based on the conceptual design recommendation.
- Provide a final design of the facility that meets current functional needs and code requirements. The design shall maintain the current facility capacity. In addition, the design should take the existing sampling process into consideration without disruption and coordinate with the north drainage upgrades effort.
- The design should include construction feasibility, bypassing, and sequencing to minimize disruption to the DPS and treatment in the most timely and cost-effective manner.

Proposals

SOCWA solicited proposals through PlanetBids on 5/29/2024. Six firms were contacted during this process:

- Black and Veatch
- Carollo Engineers
- Dudek
- Hazen and Sawyer
- HDR
- Tetra Tech

Only Tetra Tech submitted a proposal. Staff reached out to the firms that did not propose. The firms indicated that since Tetra Tech performed the conceptual design, the same firm should continue with the final design.

A summary of proposals and SOCWA's staff ratings are in Table 1.

Table 1 – Summary of Proposals

Firm	**Tetra Tech**
Project Manager	Tom Epperson
Total Labor Hours	2,198
Total Fee	$380,000
SOCWA Staff Rating (80 max)	78

Staff recommends Tetra Tech due to the following:

- The Project Manager is the most familiar with the CTP DPS project.
- The project team is the most familiar with the CTP DPS project.
- The firm has the most realistic project understanding and approach.
- The project team and manager have recently completed similar work.

Table 2 shows the allocation of costs by member agency.

Table 2 –Cost Allocation by Member Agency

Agency	**DPS Rehabilitation (35220L)**
City of Laguna Beach	$151,641.79
Emerald Bay Service District	$11,940.30
Moulton Niguel Water District	$117,014.93
South Coast Water District	$119,402.99
Total	$400,000.00

The proposals were distributed to the evaluation committee (PC 15 Engineering Committee members and SOCWA staff) on July 10, 2024. Committee members were requested to provide their rating sheets for discussion at or before the August Engineering Committee meeting.

Staff also requests a contingency of $20,000 for unknown issues discovered during design.

Prior Related Project Committee or Board Action (s)

This item was reviewed and discussed by the Engineering Committee on August 15, 2024. The Engineering Committee agreed with staff's recommendation to recommend to the PC 15 Board to award the contract to Tetra Tech.

Budget

The Drainage Pump Station Rehabilitation (35220L) has a project budget of $4.2M, and $575,000 has been collected through June 30, 2024.

Recommended Action: The Engineering Committee recommends that the PC 15 Board of Directors i) approve a contract with Tetra Tech for a total of $380,000 for the CTP Drainage Pump Station Rehabilitation Design and ii) approve a contract contingency of $20,000 for unknown issues discovered during design.

TETRA TECH

July 9, 2024

Jeanette Cotinola, CPCM, Procurement/Contracts Manager
South Orange County Wastewater Authority
34156 Del Obispo Street
Dana Point, CA 92629

Reference: Proposal to Provide Engineering Services for the Coastal Treatment Plant Drainage Pump Station Final Design Project

Dear Ms. Cotinola,

Thank you for the opportunity to submit our proposal to provide engineering design services for the Coastal Treatment Plant (CTP) Drainage Pump Station (DPS) Final Design project. Tetra Tech appreciates the relationship we have built with the South Orange County Wastewater Authority (SOCWA) during our past projects and looks forward to continuing and expanding this association in the future. The following are the distinct advantages our project team will bring to SOCWA and this project:

- **Extensive Sewer Lift Station Design Experience:** During the last twenty (20) years, members of our project team have been involved in the **design and/or construction of more than twenty (20) sewer lift station projects** for various Southern California agencies including several for your member agencies.
- **Submersible Pump Experience:** Our project team has recent design experience with sewage/drainage submersible pumps within wet wells. This experience includes three (3) facilities for IRWD's Peters Canyon Channel Water Capture, MNWD's North Aliso Lift Station Reconstruction and ETWD's Oso Lift Station.
- **SOCWA Experience:** Tetra Tech has been working with SOCWA on multiple projects since 2004. CTP projects include Conceptual Evaluation of DPS; Stormwater Control Study; Miscellaneous Stormwater Compliance Upgrades; North Side Drainage Evaluation; and the Design/Build Export Sludge Equalization Basin.
- **Best Understanding of the Project Objectives:** Tetra Tech completed the 2019 CTP North Drainage Area Study and the 2023 CTP Drainage Pump Station Conceptual Design. Therefore, Tetra Tech has the best understanding of the project objectives and can finalize the design in the most cost-effective manner.
- **Local In-House, Structural, Electrical, and Instrumentation Control Capabilities:** Tetra Tech has in-house local, registered structural, electrical and control engineers with vast lift station design experience.
- **Dedication to SOCWA:** Our approach will include a "teamwork and partnering" relationship. We will do this by exceeding your expectations through innovative and smart solutions, attention to detail, and our understanding of your design processes and requirements.

Our project team is committed to the success of this project, and we endeavor to exceed your expectations by delivering the services outlined in our proposal. Our proposal will remain valid for a period of six (6) months from the date submitted and we acknowledge and agree with all terms and conditions stated in the RFP. Furthermore, Tetra Tech certifies all information provided in connection with our proposal is true, complete, and correct. Should you have any questions regarding our proposal, please contact me at (949) 809-5156 or via email at tom.epperson@tetratech.com.

Sincerely,

Tom Epperson, PE
Vice President

M:\Marketing\Proposals\FY 2024\SOCWA_CTP PS Final Design

17885 Von Karman Avenue, Suite 500, Irvine, CA 92614-5227
Tel 949.809.5000 tetratech.com

FIRM OVERVIEW

Founded in 1966, Tetra Tech is a nationally recognized engineering and resource management firm of more than 28,000 engineers, scientists, construction specialists, and technical support personnel in 550 offices worldwide. Listed on the NASDAQ Exchange (TTEK), Tetra Tech's annual revenues now exceed $5 billion (2024). Thus, we are in an excellent financial position and can provide the necessary resources to rapidly deploy and meet aggressive project schedules.

Tetra Tech's goal is to provide the necessary expertise and resources to deliver projects on time, within budget, and in compliance with the design and construction standards of our clients and approval agencies. Leveraging our national presence, multi-disciplinary teams, and client focused service, we apply lessons learned from our vast experience to each and every challenge. Clients benefit from this approach with consistently high-quality service, innovative designs, and functional solutions that are responsive to their needs and often exceed their expectations. A cornerstone of our success is our client-focused service, staff qualifications, firm commitment, and desire to successfully complete each assignment to the satisfaction of our clients.

Tetra Tech is a leader in water/wastewater/recycled water facility design and consistently ranks among the top engineering firms annually according to the *Engineering News-Record*, a highly regarded news magazine. **In 2024, ENR rated Tetra Tech 1st in the "Water Treatment & Desalination" category, 2nd in the "Sewer & Waste" category, and 3rd among the "Top 500 Design Firms" nationwide!**

This project will be managed from our Irvine office located at:

Company Legal Name: Tetra Tech, Inc.
Address: 17885 Von Karman Avenue, Suite 500, Irvine, CA 92614
Project Manager: Tom Epperson, PE, Vice President; ☎ 949/809-5156; ✉ tom.epperson@tetratech.com

PROJECT APPROACH

Tetra Tech fully understands the importance of your project. We are offering an outstanding team, which combines the experience, depth, and understanding needed for the successful delivery of this project. Our core principles establish how we plan to work together with SOCWA to successfully complete this project:

✓	**Service:** Tetra Tech puts its clients first. We listen to and better understand our clients' needs and deliver smart, cost-effective solutions that meet those needs. Our philosophy is to "Do it Right."
✓	**Value:** Tetra Tech takes on our clients' problems as if they were our own. We develop and implement real-world solutions that are cost-effective, efficient, and practical.
✓	**Excellence:** Tetra Tech brings superior technical capability, disciplined project management, and excellence in safety and quality to all of our work.
✓	**Opportunity:** Our people are our number one asset. Our workforce is diverse and includes leading experts in our fields. Our entrepreneurial nature and commitment to success provides challenges and opportunities.

We value the relationship that has been established with SOCWA, and look forward to continuing and further developing this association in the future. We are committed to providing SOCWA with the same high-quality service you expect and deserve. **Our strength lies in our proven track record that has led to the successful completion of more than 60 projects for SOCWA, as well as other nearby agencies, since 2004.**

SCOPE OF WORK

The Project Elements will include the following:

- Review wet well condition assessment and conceptual design memos as basis of design for final design.
- Design a new discharge location based on the conceptual design recommendation.
- Provide a final design of the facility that meets current functional needs and code requirements. The design shall maintain the current facility capacity. The design should take the existing sampling process into consideration without disruption, and coordinate with the north drainage upgrade effort.
- The design should include construction feasibility, bypassing, and sequencing to minimize disruption to the DPS and treatment plant in the most timely and cost-effective manner.

The scope of services for this project consists of the following tasks:

Task 1: Project Management and Progress Meetings

Tetra Tech will include in the scope of services sufficient time and budget to manage the services provided. Project management/administration shall include: kick-off meeting at CTP; a maximum of six (6) virtual monthly progress meetings with SOCWA staff; and one (1) virtual coordination meeting with member agencies. The primary purpose of the monthly progress meetings is to review schedule, task progress, and outstanding action items. Tetra Tech will prepare the agenda, the action item list, and the decision log for each meeting.

Task 2: Data Collection and Document Review

SOCWA will provide available record drawings and previous studies involving the DPS (Tetra Tech has already been provided with these studies). Drawings do not exist for all modifications to the DPS. Tetra Tech will perform a site visit to confirm all site conditions have not changed since the preparation of the previous memorandums.

Task 3: Basis of Design

Tetra Tech will prepare a Basis of Design Memorandum based on the following: Option No. 1 (Submersible Pumps in Existing Wet Well) as summarized in the Conceptual Design Memorandum; and the drainage piping recommended in the CTP North Drainage Memorandum. In addition, the following tasks will be performed:

- ***Design Survey:*** A topographic survey of the DPS site as well as the north area of the plant.
- ***Geotechnical Evaluation:*** Minimum scope of work will be to perform a desktop study based on review of available existing reports for the project area at the plant. If there is insufficient information to perform the design of the perimeter wall and surrounding improvements, Tetra Tech will authorize Verdantas, Inc. to drill, sample and log one hollow-stem auger boring to a depth of 15 feet below existing grade. A geotechnical evaluation report will be prepared which will include recommendations for foundation design of the perimeter wall and site preparation for the modifications to the proposed electrical building.

Tetra Tech will prepare for and attend a design workshop that will include the basis of design and preliminary bypass/sequencing plan based on the conceptual design. Tetra Tech will prepare an implementation plan showing how the work can be done while maintaining the facility in service. The implementation plan will include a maximum of three (3) alternatives on the bypass during the proposed construction of the facility. For the preparation of the design schedule, Tetra Tech assumed SOCWA will take four (4) weeks to review the basis of design and select one bypass alternative from the implementation plan.

Task 4: Final Design

Tetra Tech will prepare final design based on the basis of design memorandum and the selected bypass alternative. Tetra Tech will perform the necessary calculation for the design (hydraulics, HVAC/ventilation, structural and electrical).

Tetra Tech envisions the final design plan set will include the following:

Sheet No.	Sheet Title
1	Title Sheet and Location Map
2	Abbreviations, Vicinity Map, Sheet Index and Symbols
3	General Notes, Demolition Notes and Contacts
4	Hydraulic Profile, Design Criteria, and Pipe Material Schedule
5	Horizontal Control Plan, Bench Mark, Basis of Bearing
6	Overall CTP Site Plan including Work Area and Staging Plan
7	North Site Improvement Plan
8	North Site Drainage Piping Profile and Details
9	Perimeter Wall Plan and Profile
10	Perimeter Wall Details, Typical Sections and Grated Catch Basin Details
11	DPS Site and Piping Plan (including existing drains into DPS wet well)
12	DPS Site and Piping Demolition Plan
13	DPS Dry Pit Demolition Plan
14	DPS Electrical Equipment and Stairway Demolition
15	DPS Dry Well, Electrical Equipment and Wet Well Demolition Sections
16	DPS Wet Well Rehabilitation and Details
17	Conceptual Bypassing Plan and Details (assume three separate locations)
18	Conceptual Construction Phasing and Interim Site Plan
19	DPS Discharge Piping Plan and Profile
20	Channel Discharge Plan, Section and Details
21	Drainage Piping, Connections and Miscellaneous Details
22	Site Details
23	Drainage Details
24	Miscellaneous Details
25	Mechanical Plan
26	Mechanical Sections
27	Mechanical Details
28	Pipe Supports and Miscellaneous Details
29	HVAC and Ventilation Plan and Details
30	General Structural Notes and Design Criteria
31	Special Inspections and Structural Observations
32	Wet Well Roof Plan
33	Wet Well Roof Section
34	Existing Building Sections
35	Structural Details (plugging penetrations/openings)
36	Existing Building Modifications
37	Miscellaneous Structural Details
38	Electrical Symbols and Abbreviations
39	Electrical Demolition Plan and Interim Electrical Plan
40	Electrical Site Plan
41	Site Power Plan

Sheet No.	Sheet Title
42	Building Power Plan
43	Site I&C Plan
44	Building I&C Plan
45	Lighting and Grounding Plan
46	Site Lighting Plan and HVAC Plan
47	Single Line Demolition and Single Line Diagram
48	Conduit and Panel Schedule
49	MSB and MCC Elevation
50	Pump Control Schematic Diagram
51	Lighting and Receptacle Details
52	Electrical Details
53	P&ID Symbols and Abbreviations
54	P&ID
55	Control Panel
56	PLC Network Details
57	Area Classification

Tetra Tech assumes the following submittals will be required:

50% Submittal: This submittal will address all SOCWA's comments from the design workshop and the basis of design memorandum. This submittal shall also include comments returned from the design workshop with the 50% complete stage plans, specifications and cost estimate. In preparing the schedule, Tetra Tech has assumed SOCWA will take two (2) weeks to review the submittal and return comments.

90% Submittal: This submittal will address all SOCWA's comments from the 50% design submittal. This submittal shall also include comments from the same elements as the 50% submittal with the 90% complete stage plans, specifications and cost estimate. In preparing the schedule, Tetra Tech as assumed SOCWA will take two (2) weeks to review the submittal and return comments.

Constructability Review Workshop: Tetra Tech will attend in person and perform a site walk with SOCWA staff prior to any discussions on the Bid Set submittal to determine work restriction and sequence of work.

Bid Set: Tetra Tech will provide the complete Bid Set with the final completed plans, specifications and estimate. This Bid Set will include SOCWA's comments from the previous submittals including the constructability review.

For all submittals, Tetra Tech will provide drawings in electronic form (in *.pdf format) and specifications in electronic form (in *.doc format).

Specifications: SOCWA will provide Tetra Tech with the listing of standard specifications from Division 1 to be used for the project after the 50% design submittal review. Tetra Tech will prepare Section 01010, Summary of Work, and Section 01014, Work Restrictions and Sequence. Tetra Tech will meet with SOCWA to discuss coordination of specification sections referenced in the Technical Specifications. Tetra Tech will submit required information for review at the 90% design submittal phase.

Coordination with Member Agencies: Tetra Tech will coordinate the work with member agencies on an as-needed basis to minimize disruption on their ongoing work if any. For this proposal, Tetra Tech has assumed one (1) virtual coordination meeting with member agencies.

SEWER/STORM DRAIN LIFT STATION EXPERIENCE

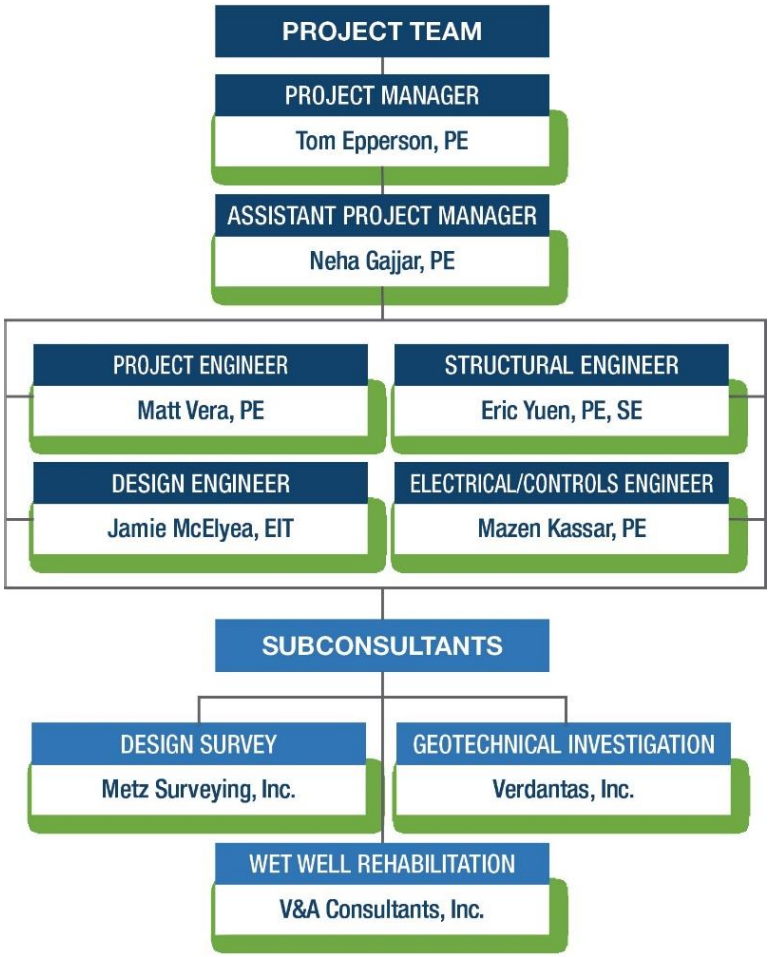
During the last 20 years, members of our project team have been involved in the design and/or construction of more than 20 sewer/storm drain lift station projects for various Southern California agencies. The following is a summary of our project team's completed lift station projects:

SEWER/STORM DRAIN LIFT STATION FACILITIES COMPLETED BY PROJECT TEAM		
Client	**Project Name**	**Completed**
SOCWA	CTP Drainage Pump Station Conceptual Design	2024
Moulton Niguel Water District	North Aliso Lift Station Reconstruction	Bidding
El Toro Water District	Aliso Creek LS Alternative Analysis Study	2024
City of Santa Ana	San Lorenzo Lift Station	2023
Moulton Niguel Water District	Regional Lift Station Enhancements	2022
El Toro Water District	Oso Lift Station Improvements	2021
Orange County Water District	Burris Pump Station including Packaged Lift Station	2017
Moulton Niguel Water District	North Aliso and Camino Capistrano Lift Station Preliminary Evaluation	2017
NAVFAC Southwest	Camp Pendleton Sewer Lift Station Package #1	2014
NAVFAC Southwest	Camp Pendleton Sewer Lift Station Package #2	2014
NAVFAC Southwest	Naval Base Coronado Sewer Lift Station	2013
Moulton Niguel Water District	Lower Salada Lift Station Oxygenation Upgrades	2008/2006/2000
Moulton Niguel Water District	Upper Salada Lift Station Oxygenation Upgrades	2007/2006
South Coast Water District	Sewer Lift Station Evaluation	2007
Moulton Niguel Water District	Del Avion Lift Station Pump/Motor Replacement	2006
South Coast Water District	Blue Lagoon Lift Station	2006
Moulton Niguel Water District	Regional Lift Station Pump/Motor Replacement	2004/2000
Moulton Niguel Water District	Upper Boundary Oak Lift Station Expansion	2006
Moulton Niguel Water District	Aliso Creek Lift Station Upgrades	2005
Irvine Ranch Water District	Coastal Ridge Lift Station	2004

In addition, the project team completed the design of the Peters Canyon Channel Water Capture and Reuse Pipeline for Irvine Ranch Water District. This project included three (3) separate diversion structures, with each diversion facility including a wet well, submersible pumps, valve vault and meter vaults. The construction was completed in 2018.

PROJECT TEAM

Tetra Tech has a depth of resources for staffing this project with experienced and qualified personnel. The following team has had extensive experience working on sewage/drainage lift stations. The following paragraphs provide a brief summary of the qualifications of our key staff. Brief resumes are included within the Appendix.



Tom Epperson, PE, Project Manager, will provide project oversight and ensure that the necessary resources are committed to the project to get the job done. Mr. Epperson will apply more than 43 years of professional experience which includes a myriad of projects which required finding solutions to complex issues within wastewater facilities.

Neha Gajjar, PE, Assistant Project Manager, will provide support to Mr. Epperson with project oversight. Ms. Gajjar has more than 32 years of professional experience in water and wastewater facilities design and played a major role on the 2021 Memorandum "Conceptual Evaluation for the Projection of the CTP Drainage Pump Station" as well as the "CTP Drainage Pump Station Conceptual Design".

Matt Vera, PE, Project Engineer, has more than 11 years of water/wastewater experience and has provided design engineering for various domestic and reclaimed water pipelines, gravity sewer mains, sewer main rehabilitations, pump stations, lift stations, wells, flow control facilities, and pressure reducing valve vaults. As Project Engineer, Matt previously played the same roll on MNWD's North Aliso Lift Station Reconstruction project.

Jamie McElyea, EIT, Design Engineer, as our Design Engineer, she has more than eight years of experience in civil engineering design, drafting with AutoCAD Civil 3D, and technical documentation. Jamie was also the Design Engineer on our MNWD North Aliso Lift Station Reconstruction project.

Eric Yuen, PE, SE, Structural Engineer, has more than 17 years of professional experience in design, analysis, and detailing in structural engineering. Eric is currently playing the same role on MNWD's North Aliso Lift Station Reconstruction project.

Mazen Kassar, PE, Electrical/Controls Engineer, more than 32 years of professional experience in electrical engineering and industry standards including, construction management and supervision, water and wastewater treatment, petro-chemical design, and environmental soil and groundwater treatment. Mazen is leading our Electrical Design Team on our North Aliso Lift Station Reconstruction project for MNWD.

Subconsultants: To provide the services requested in the RFP, Tetra Tech has added the following subconsultants to our project team:

- Design Survey: Metz Surveying, Inc.
- Geotechnical Investigation: Verdantas, Inc. (formerly Leighton Consulting, Inc.)
- Wet Well Rehabilitation Support: V&A Consultants, Inc.

The following lists Team Member's project responsibility, years of experience, percent available and completed projects:

Team Member	Project Responsibility	Years of Exp.	Percent Available	Projects
Tom Epperson, PE	Project Manager	43	10%	• SOCWA Coastal Treatment Plant Drainage Pump Station Conceptual Design • Santa Ana San Lorenzo Sewage Lift Station • MNWD North Aliso Lift Station Reconstruction • OCWD Burris Pump Station including Packaged Lift Station • IRWD Coastal Ridge Lift Station • ETWD Oso Lift Station Improvements
Neha Gajjar, PE	Assistant Project Manager	32	20%	• SOCWA Coastal Treatment Plant Drainage Pump Station Conceptual Design • Santa Ana San Lorenzo Sewage Lift Station • MNWD Regional Lift Station Force Main Replacement • ETWD Aliso Creek Lift Station Improvements Alternatives Analysis Study
Matt Vera, PE	Project Engineer	11	20%	• MNWD North Aliso Lift Station Reconstruction • MNWD Regional Lift Station Force Main Replacement • MNWD Regional Lift Station Enhancements • ETWD Oso Lift Station Improvements
Jamie McElyea, EIT	Design Engineer	8	30%	• SOCWA Coastal Treatment Plant Drainage Pump Station Conceptual Design • Santa Ana San Lorenzo Sewage Lift Station • MNWD North Aliso Lift Station Reconstruction • MNWD Regional Lift Station Force Main Replacement
Eric Yuen, PE, SE	Structural Engineer	17	10%	• SOCWA Coastal Treatment Plant Drainage Pump Station Conceptual Design • MNWD North Aliso Lift Station Reconstruction • MNWD Regional Lift Station Force Main Replacement • ETWD Oso Lift Station Improvements
Mazen Kassar, PE	Electrical/ Controls Engineer	32	10%	• SOCWA Coastal Treatment Plant Drainage Pump Station Conceptual Design • Santa Ana San Lorenzo Sewage Lift Station • MNWD North Aliso Lift Station Reconstruction • OCWD Burris Pump Station including Packaged Lift Station • ETWD Oso Lift Station Improvements

SATISFIED CLIENTS

Client satisfaction is a major objective for Tetra Tech. This commitment to our clients has earned us the privilege of providing continuous service to several of our below listed references. We believe our clients will attest to our technical experience and responsive staff, and we encourage you to contact our references to verify our past performance firsthand.

City of Santa Ana **Armando Fernandez, PE** 714/647-3316 afernandez@santa-ana.org 2 Lift Stations	**Moulton Niguel Water District** **Rodney Woods, PE** 949/425-3547 rwoods@mnwd.com 10 Lift Stations	**Orange County Water District** **Chris Olsen, PE** 714/378-3232 colsen@ocwd.com 2 Pump Stations and Well Injection	**Irvine Ranch Water District** **Richard Mori, PE** 949/453-5571 mori@irwd.com 2 Lift Stations and 4 Diversion Structures	**El Toro Water District** **Hannah Ford, PE** 949/837-7050, ext. 247 hford@etwd.com 2 Lift Stations

PROPOSED PROJECT SCHEDULE

Tetra Tech has reviewed current and planned workload schedules for our project team, and are available to immediately begin work on this project. The following presents our proposed project schedule.

Milestone	Key Milestone Dates
Notice of Award	August 15, 2024
Kick-off Meeting	August 21, 2024
Design Workshop	September 10, 2024
SOCWA Review/Comment Return	October 9, 2024
50% Design Submittal	October 30, 2024
SOCWA Review/Comment Return	November 13, 2024
90% Design Submittal	January 15, 2025
SOCWA Review/Comment Return	January 29, 2025
Constructability Review Workshop	February 12, 2025
Bid Set Submittal	March 12, 2025
SOCWA Review/Comment Return	March 26, 2025
Bid Documents Submittal	April 2, 2025

PRICING

Our Fee Spreadsheet presents an estimate of hours and budget to complete the work in accordance with the Scope of Work provided within the RFP and within this proposal. The budget includes all costs required to complete the work requested by the RFP. We have also included our Hourly Rate Schedule for 2024/2025.

MISCELLANEOUS ITEMS

Tetra Tech certifies that it is not aware of any actual or potential conflict of interest that exists or may arise by executing the contract or performing the work that is the subject of this proposal.

Attached to the proposal is our signed Attachment B (Non-Collusion Affidavit) and Attachment C (Conflict of Interest Affidavit).

Tetra Tech certifies that it is willing and able to obtain all insurance required by the form contract included as Attachment D.

Tetra Tech certifies it has conducted a reasonable and diligent inquiry concerning the minimum and/or prevailing wages required to be paid in connection with the performance of the work for this proposal.

Tetra Tech certifies the proposed pricing includes sufficient funds to allow Tetra Tech to comply with all applicable local, state, and federal laws or regulations governing the labor or services to be provided.

Tetra Tech acknowledges and agrees with all terms and conditions stated in the RFP and certifies that all information provided in connection with our proposal is true, complete and correct.

APPENDIX
Resumes

Education

BS, Environmental Engineering, University of California, Irvine, 1978

Registration

Professional Civil Engineer, California, No. 36399, 1983

Years of Experience

43

Years with Tetra Tech

32

Tom Epperson, PE

Project Manager

Mr. Epperson has more than 43 years of professional experience in water, wastewater, and reclaimed water engineering. Tom has been responsible for the preparation of water, wastewater, and reclaimed water master plans; project design reports for various water, wastewater, and reclaimed water facilities; and the planning and design of water, wastewater, and reclaimed water pipelines, along with, lift stations, pump stations and reservoirs. Mr. Epperson's experience includes completing the design, bidding, and construction management of over 300 miles of water/reclaimed water/sewer mains, 40 water/reclaimed water pump stations, 20 wellhead facilities, 20 sewer lift stations, and 28 water and reclaimed water storage reservoirs throughout Southern California.

PROJECT EXPERIENCE

Coastal Treatment Plant Drainage Pump Station Conceptual Design, South Orange County Wastewater Authority. Project Manager. The Coastal Treatment Plant Drainage Pump Station (DPS) located in Laguna Niguel, CA is a conventional activated sludge treatment plant with a secondary treatment design capacity of 6.7 MGD. Tetra Tech provided preliminary design services to rehabilitate the DPS by replacing aging equipment, upgrading the structure, and bringing it up to code. Tasks included a wet well condition assessment to determine the type of rehabilitation needed for the structure and interior components, evaluated options for a new discharge location, suggested a facility design to meet current functional needs and code requirements and evaluated construction feasibility, bypassing, and sequencing options to minimize disruption to the DPS and the treatment plant.

San Lorenzo Sewage Lift Station, City of Santa Ana. Project Manager. Prepared plans, specifications, and cost estimates to construct a new sewer lift station on San Lorenzo Avenue within the City of Santa Ana. The improvements included a wet well, dry well, three variable frequency drive pumps, aboveground CMU block control room, emergency generator, hardscape/landscape improvements and approximately 1,300 linear feet of new sewer main.

Lower Salada Lift Station Rehabilitation, Moulton Niguel Water District. Project Manager. Design and construction of a rehabilitation of the Lower Salada Lift Station, including rehabilitation of the existing wet well and replacement of existing valves.

North Aliso Lift Station Reconstruction, Moulton Niguel Water District. Project Manager. The North Aliso Lift Station is located in Mission Viejo, CA and conveys raw wastewater from the MNWD's SubBasin 8 (North Aliso) to SubBasin 9 (3A) whereafter it flows by gravity to the MNWD's 3A Wastewater Treatment Plant. The existing lift station site includes a pump building with electrical equipment on the ground floor and two 1,400 gpm pumps located in a concrete dry pit directly below. The site also has a wet well, overflow basin, backup generator, diesel storage tank, and bypass pumping connection. Tetra Tech was tasked to provide engineering design services to reconstruct the North Aliso Lift Station in its entirety and to replace the existing facilities that have reached the end of their useful lives. Services include preliminary and final design; preparation of construction documents and construction cost estimates; permit acquisition support; bid phase support; and construction phase services.

Oso Lift Station Improvements, El Toro Water District. Project Manager. Provided engineering services for the relocation of the existing lift station to a new property within Laguna Woods. The work includes a preliminary analysis of sewer flows for the basis of design, evaluating pumps to select the most efficient for the lift station demands, configuring the site to accommodate new construction while the existing remains in service, evaluating on-site storage and response times, considering odor control alternatives and converting the existing wet well into an emergency storage basin.

Education

BS, Civil Engineering, University of California at Berkeley, 1991

Registration

Professional Civil Engineer, California, No. 55574, 1996

Years of Experience

32

Years with Tetra Tech

6

Neha Gajjar, PE

Assistant Project Manager

Ms. Gajjar has more than 32 years of professional experience providing project management, planning, and design of water transmission, distribution, and storage facilities projects. Neha has extensive experience preparing plans and specifications for water/sewer mains, storm drains, pipelines, and has an intimate understanding of these requirements for various municipalities. Ms. Gajjar's experience includes design, bidding, and construction management of over 100 miles of water/reclaimed water/sewer mains throughout Southern California. Her responsibilities as engineering lead include establishing design parameters, planning activities to meet client needs and project schedules, and managing required appropriate technical resources necessary for each project.

PROJECT EXPERIENCE

Coastal Treatment Plant Drainage Pump Station Conceptual Design, South Orange County Wastewater Authority. Assistant Project Manager. The Coastal Treatment Plant Drainage Pump Station (DPS) located in Laguna Niguel, CA is a conventional activated sludge treatment plant with a secondary treatment design capacity of 6.7 MGD. Tetra Tech provided preliminary design services to rehabilitate the DPS by replacing aging equipment, upgrading the structure, and bringing it up to code. Tasks included a wet well condition assessment to determine the type of rehabilitation needed for the structure and interior components, evaluated options for a new discharge location, suggested a facility design to meet current functional needs and code requirements and evaluated construction feasibility, bypassing, and sequencing options to minimize disruption to the DPS and the treatment plant.

Upper Salada Sewer Lift Station, Moulton Niguel Water District, Laguna Niguel, CA. Project Manager. Assumed position of Project Manager after preliminary design report was complete. Duties included coordination with MNWD to assess a new scope for the project based on current needs, preparation of plans and specifications to install a permanent generator on site, including documentation (plats and legal descriptions) for the District to use in acquiring portions of adjacent property, coordination and research at OCFA to determine the latest setback requirements and establishing the optimal location for the facilities to meet state and federal guidelines.

Aliso Creek Lift Station Improvements Alternatives Analysis Study, El Toro Water District. Assistant Project Manager. Provided evaluation to determine the most cost-effective approach to achieve the required capacity at the Aliso Creek Lift Station while also improving operations and maintenance, maintaining service, and protecting neighboring environmentally sensitive areas.

Regional Lift Station Force Main Replacement, Moulton Niguel Water District. Assistant Project Manager. Provided engineering services for the replacement of approximately 15,000 linear feet of 20-inch and 24-inch Techite sewer force main within Laguna Niguel Regional Park. Regional Lift Station and Force Mains are critical wastewater facilities that pump flow from MNWD sewer collection system to South Orange County Wastewater Authority Regional Treatment Plant. The replacement force main consists of dual 24-inch pipeline approximately 8,000 feet in length and will be constructed within Laguna Niguel Regional Park. Scope of services include preliminary design, final design and construction phase services.

San Lorenzo Sewage Lift Station, City of Santa Ana. Assistant Project Manager. Prepared plans, specifications, and cost estimates to construct a new sewer lift station on San Lorenzo Avenue within the City of Santa Ana. The improvements included a wet well, dry well, three variable frequency drive pumps, aboveground CMU block control room, emergency generator, hardscape/landscape improvements and approximately 1,300 linear feet of new sewer main.

Education

BS, Civil Engineering, University of California, Irvine, 2013

Registration

Professional Civil Engineer, California, No. 86663, 2016

Years of Experience

11

Years with Tetra Tech

6

Matt Vera, PE

Project Engineer

Mr. Vera has provided design engineering in various water and wastewater projects including domestic and reclaimed water pipelines, gravity sewer mains, sewer main rehabilitations, pump stations, lift stations, wells, flow control facilities, and pressure reducing valve vaults. Matt's responsibilities include preparation of construction plans, specifications, design calculations and preparing project reports and technical memorandums.

PROJECT EXPERIENCE

Aliso Creek Lift Station Improvements Alternatives Analysis Study, El Toro Water District. Project Engineer. Provided evaluation to determine the most cost-effective approach to achieve the required capacity at the Aliso Creek Lift Station while also improving operations and maintenance, maintaining service, and protecting neighboring environmentally sensitive areas.

Oso Lift Station Improvements, El Toro Water District. Project Engineer. Provided engineering services for the relocation of the existing lift station to a new property within Laguna Woods. The work includes a preliminary analysis of sewer flows for the basis of design, evaluating pumps to select the most efficient for the lift station demands, configuring the site to accommodate new construction while the existing remains in service, evaluating on-site storage and response times, considering odor control alternatives and converting the existing wet well into an emergency storage basin.

Regional Lift Station Force Main Replacement, Moulton Niguel Water District. Project Engineer. Provided engineering services for the replacement of approximately 15,000 linear feet of 20-inch and 24-inch Techite sewer force main within Laguna Niguel Regional Park. Regional Lift Station and Force Mains are critical wastewater facilities that pump flow from MNWD sewer collection system to South Orange County Wastewater Authority Regional Treatment Plant. The replacement force main consists of dual 24-inch pipeline approximately 8,000 feet in length and will be constructed within Laguna Niguel Regional Park. Scope of services include preliminary design, final design and construction phase services.

North Aliso Lift Station Reconstruction, Moulton Niguel Water District. Project Engineer. The North Aliso Lift Station is located in Mission Viejo, CA and conveys raw wastewater from the MNWD's SubBasin 8 (North Aliso) to SubBasin 9 (3A) whereafter it flows by gravity to the MNWD's 3A Wastewater Treatment Plant. The existing lift station site includes a pump building with electrical equipment on the ground floor and two 1,400 gpm pumps located in a concrete dry pit directly below. The site also has a wet well, overflow basin, backup generator, diesel storage tank, and bypass pumping connection. Tetra Tech was tasked to provide engineering design services to reconstruct the North Aliso Lift Station in its entirety and to replace the existing facilities that have reached the end of their useful lives. Services include preliminary and final design; preparation of construction documents and construction cost estimates; permit acquisition support; bid phase support; and construction phase services.

Regional Lift Station Enhancements, Moulton Niguel Water District. Project Engineer. Provided engineering services to provide a new back-up system to the existing lift station. The design included evaluating various pump capacities and performance curves with the system head curve with the intent to have an independently powered backup pumping system that will engage during scheduled maintenance or emergency conditions. Also, the design provided additional emergency wet well storage in the form of a pre-cast concrete structure adjacent to the existing sewer manhole.

Education

BS, Civil Engineering, Arizona State University, 2016

Registration

Engineer-in-Training, Arizona, No. 012527, 2017

Years of Experience

8

Years with Tetra Tech

8

Jamie McElyea, EIT

Design Engineer

Ms. McElyea has more than eight years of experience in civil engineering design, drafting with AutoCAD Civil 3D, and technical documentation. Jamie provides engineering support for a variety of civil engineering projects, such as grading, drainage, water and wastewater, and sanitary sewer design and modeling. In addition to engineering design, Jamie has experience working in the field as a survey technician, with topographic and field surveys and staking for construction.

PROJECT EXPERIENCE

Coastal Treatment Plant Drainage Pump Station Conceptual Design, South Orange County Wastewater Authority. Design Engineer. The Coastal Treatment Plant Drainage Pump Station (DPS) located in Laguna Niguel, CA is a conventional activated sludge treatment plant with a secondary treatment design capacity of 6.7 MGD. Tetra Tech provided preliminary design services to rehabilitate the DPS by replacing aging equipment, upgrading the structure, and bringing it up to code. Tasks included a wet well condition assessment to determine the type of rehabilitation needed for the structure and interior components, evaluated options for a new discharge location, suggested a facility design to meet current functional needs and code requirements and evaluated construction feasibility, bypassing, and sequencing options to minimize disruption to the DPS and the treatment plant.

North Aliso Lift Station Reconstruction, Moulton Niguel Water District. Design Engineer. The North Aliso Lift Station is located in Mission Viejo, CA and conveys raw wastewater from the MNWD's SubBasin 8 (North Aliso) to SubBasin 9 (3A) whereafter it flows by gravity to the MNWD's 3A Wastewater Treatment Plant. The existing lift station site includes a pump building with electrical equipment on the ground floor and two 1,400 gpm pumps located in a concrete dry pit directly below. The site also has a wet well, overflow basin, backup generator, diesel storage tank, and bypass pumping connection. Tetra Tech was tasked to provide engineering design services to reconstruct the North Aliso Lift Station in its entirety and to replace the existing facilities that have reached the end of their useful lives. Services include preliminary and final design; preparation of construction documents and construction cost estimates; permit acquisition support; bid phase support; and construction phase services.

Regional Lift Station Force Main Replacement, Moulton Niguel Water District. Design Engineer. Provided engineering services for the replacement of approximately 15,000 linear feet of 20-inch and 24-inch Techite sewer force main within Laguna Niguel Regional Park. Regional Lift Station and Force Mains are critical wastewater facilities that pump flow from MNWD sewer collection system to South Orange County Wastewater Authority Regional Treatment Plant. The replacement force main consists of dual 24-inch pipeline approximately 8,000 feet in length and will be constructed within Laguna Niguel Regional Park. Scope of services include preliminary design, final design and construction phase services.

San Lorenzo Sewage Lift Station, City of Santa Ana. Design Engineer. Prepared plans, specifications, and cost estimates to construct a new sewer lift station on San Lorenzo Avenue within the City of Santa Ana. The improvements included a wet well, dry well, three variable frequency drive pumps, aboveground CMU block control room, emergency generator, hardscape/landscape improvements and approximately 1,300 linear feet of new sewer main.

La Salina Wastewater Treatment Plant Decommissioning and Lift Station, Oceanside, CA. Design Engineer. Responsible for preparing plans and specifications for the decommissioning of an existing WWTP after the incoming flows are diverted via a new lift station to the San Luis Rey Water Reclamation Facility. Design considerations included asbestos/lead/hazardous materials abatement, removal of existing wastewater from various facilities, demolition of the aboveground facilities and piping up to five feet below grade, and rough grading for future site usage.

Education

BS, Civil Engineering, California State Polytechnic University, Pomona, 2007

MS, Structural Engineering, California State Polytechnic University Pomona, 2016

Registrations

Professional Civil Engineer, California, No. 75983, 2009

Professional Structural Engineer, California, No. 6177, 2014

Years of Experience

17

Years with Tetra Tech

17

Eric Yuen, PE, SE

Structural Engineer

Mr. Yuen has more than 17 years of professional experience in design, analysis, and detailing in structural engineering. Eric is knowledgeable in reinforced concrete, masonry, structural steel and wood frame design, and construction for a variety of building and infrastructure projects including reservoirs, water/wastewater treatment facilities, as well as seismic retrofit of existing structures.

PROJECT EXPERIENCE

Coastal Treatment Plant Drainage Pump Station Conceptual Design, South Orange County Wastewater Authority. Structural Manager. The Coastal Treatment Plant Drainage Pump Station (DPS) located in Laguna Niguel, CA is a conventional activated sludge treatment plant with a secondary treatment design capacity of 6.7 MGD. Tetra Tech provided preliminary design services to rehabilitate the DPS by replacing aging equipment, upgrading the structure, and bringing it up to code. Tasks included a wet well condition assessment to determine the type of rehabilitation needed for the structure and interior components, evaluated options for a new discharge location, suggested a facility design to meet current functional needs and code requirements and evaluated construction feasibility, bypassing, and sequencing options to minimize disruption to the DPS and the treatment plant.

Oso Lift Station Improvements, El Toro Water District. Structural Engineer. Provided engineering services for the relocation of the existing lift station to a new property within Laguna Woods. The work includes a preliminary analysis of sewer flows for the basis of design, evaluating pumps to select the most efficient for the lift station demands, configuring the site to accommodate new construction while the existing remains in service, evaluating on-site storage and response times, considering odor control alternatives and converting the existing wet well into an emergency storage basin.

North Aliso Lift Station Reconstruction, Moulton Niguel Water District. Structural Manager. The North Aliso Lift Station is located in Mission Viejo, CA and conveys raw wastewater from the MNWD's SubBasin 8 (North Aliso) to SubBasin 9 (3A) whereafter it flows by gravity to the MNWD's 3A Wastewater Treatment Plant. The existing lift station site includes a pump building with electrical equipment on the ground floor and two 1,400 gpm pumps located in a concrete dry pit directly below. The site also has a wet well, overflow basin, backup generator, diesel storage tank, and bypass pumping connection. Tetra Tech was tasked to provide engineering design services to reconstruct the North Aliso Lift Station in its entirety and to replace the existing facilities that have reached the end of their useful lives. Services include preliminary and final design; preparation of construction documents and construction cost estimates; permit acquisition support; bid phase support; and construction phase services.

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Education

BS, Electrical Engineering, California State University, Long Beach, 1990

Registrations

Professional Electrical Engineer, California, No. 15809, 1998

General Construction, Class B, California, No. 777845, 2008

Years of Experience

32

Years with Tetra Tech

15

Mazen Kassar, PE

Electrical/Controls Engineer

Mr. Kassar has more than 32 years of professional experience in electrical engineering and industry standards that include electrical engineering staff management, project management, construction management and supervision, water and wastewater treatment, petro-chemical design, and environmental soil and groundwater treatment. Mazen's background includes designing medium and low voltage power distribution, instrumentation design, control systems and SCADA systems for a wide variety of water/wastewater projects, and the installation of electrical systems for remediation projects, including soil vapor extraction systems, and groundwater pump and-treat systems.

PROJECT EXPERIENCE

Coastal Treatment Plant Drainage Pump Station Conceptual Design, South Orange County Wastewater Authority. Electrical Project Manager. The Coastal Treatment Plant Drainage Pump Station (DPS) located in Laguna Niguel, CA is a conventional activated sludge treatment plant with a secondary treatment design capacity of 6.7 MGD. Tetra Tech provided preliminary design services to rehabilitate the DPS by replacing aging equipment, upgrading the structure, and bringing it up to code. Tasks included a wet well condition assessment to determine the type of rehabilitation needed for the structure and interior components, evaluated options for a new discharge location, suggested a facility design to meet current functional needs and code requirements and evaluated construction feasibility, bypassing, and sequencing options to minimize disruption to the DPS and the treatment plant.

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Oso Lift Station Improvements, El Toro Water District. Electrical/Controls Manager. Provided engineering services for the relocation of the existing lift station to a new property within Laguna Woods. The work includes a preliminary analysis of sewer flows for the basis of design, evaluating pumps to select the most efficient for the lift station demands, configuring the site to accommodate new construction while the existing remains in service, evaluating on-site storage and response times, considering odor control alternatives and converting the existing wet well into an emergency storage basin.

North Aliso Lift Station Reconstruction, Moulton Niguel Water District. Electrical/Controls Manager. The North Aliso Lift Station is located in Mission Viejo, CA and conveys raw wastewater from the MNWD's SubBasin 8 (North Aliso) to SubBasin 9 (3A) whereafter it flows by gravity to the MNWD's 3A Wastewater Treatment Plant. The existing lift station site includes a pump building with electrical equipment on the ground floor and two 1,400 gpm pumps located in a concrete dry pit directly below. The site also has a wet well, overflow basin, backup generator, diesel storage tank, and bypass pumping connection. Tetra Tech was tasked to provide engineering design services to reconstruct the North Aliso Lift Station in its entirety and to replace the existing facilities that have reached the end of their useful lives. Services include preliminary and final design; preparation of construction documents and construction cost estimates; permit acquisition support; bid phase support; and construction phase services.

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SIGNED CERTIFICATIONS

ATTACHMENT B
NON-COLLUSION AFFIDAVIT

The undersigned declares:

I am the Vice President of Tetra Tech, Inc., the party making the foregoing bid.

The bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation. The bid is genuine and not collusive or sham. The bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid. The bidder has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or to refrain from bidding. 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 bidder. All statements contained in the bid are true. 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, to any corporation, partnership, company, association, organization, bid depository, or to any member or agent thereof, to effectuate a collusive or sham bid, and has not paid, and will not pay, any person or entity for such purpose.

Any person executing this declaration on behalf of a bidder that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the bidder.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct, and that this declaration is executed on 7/9/24 [date], at Irvine [city], CA [state].

Signature: 

Title: Vice President

ATTACHMENT C
CONFLICT OF INTEREST AFFIFIDAVIT

The undersigned declares:

I am the Vice President of Tetra Tech, Inc. ("Consultant"), the party entering into the forgoing contract.

As a California public agency, SOCWA is subject to conflicts of interest rules under the Political Reform Act ("PRA") and California Government Code Section 1090 ("Section 1090").

The PRA prohibits a public official at any level of state or local government from making, participate in making, or in any way attempt to use their official position to influence a governmental decision in which the official has a financial interest. A public official has a financial interest in a decision if it is reasonably foreseeable that the decision will have a material financial effect on the public official, a member of the public official's immediate family, or on: (a) a business in which the public official has a direct or indirect investment worth $2,000 or more; (b) real property in which the public official has a direct or indirect interest worth $2,000 or more; (c) any source of income of $500 or more received within 12 months prior to the time when the decision is made; (d) a business in which the public official is a director, officer, partner, trustee, employee, or has a management position; or (e) the donor of a gift to the public official of $250 within 12 months prior to the time when the decision is made.

Section 1090 provides that public officials and public employees may not be "financially interested" in "any contract made by them in their official capacity."

By signing below, Consultant acknowledges that it (I) has considered persons with whom it has business relationships as to the potential for such persons to have a conflict of interest, (ii) has considered the requirements and provisions of the PRA and Section 1090, (iii) certifies that it does not know of any facts which constitute a violation, or should be further investigated to prevent a violation of those provisions, and (iv) agrees that Consultant will immediately notify SOCWA if it becomes aware of any such fact at a later date.

Any person executing this declaration on behalf of a Consultant that is a corporation, partnership, joint venture, limited liability company, limited liability partnership, or any other entity, hereby represents that he or she has full power to execute, and does execute, this declaration on behalf of the Consultant.

I declare under penalty of perjury under the laws of the State of California that the foregoing is true and correct, and that this declaration is executed on 7/9/24 [date], at Irvine [city], CA [state].

Signature: _____

Title: Vice President

TETRA TECH

July 9, 2024

Jeanette Cotinola, CPCM
Procurement/Contracts Manager
South Orange County Wastewater Authority
34156 Del Obispo Street
Dana Point, CA 92629

Reference: Fee Proposal to Provide Engineering Services for the Coastal Treatment Plant Drainage Pump Station Final Design Project

Dear Ms. Cotinola,

Tetra Tech is pleased to present our fee proposal in response to South Orange County Wastewater Authority Request for Proposal to provide engineering services for the Coastal Treatment Plant Drainage Pump Station Final Design project. All work will be performed on a time and material basis "not-to-exceed" the contract price and no additional compensation will be received beyond the price negotiated to be performed unless changes are approved in advance by an amendment to our contract.

Our technical proposal, scope of work, and schedule form the basis of our Fee Proposal. Attached is a detailed spreadsheet showing a breakdown of labor hours by employee billing classification, together with the cost of non-labor and subconsultant services. The attached rate schedule includes Tetra Tech's billing rates for this project for all classifications of staff likely to be involved in the project; as well as overhead, profit, and expenses.

South Orange County Wastewater Authority is counted among Tetra Tech's most valued clients, and we are excited about the opportunity to continue to grow our relationship by delivering a project that exceeds your expectations.

Our fee proposal will remain valid for a period of six (6) months from the date submitted. Should you have any questions or wish to discuss the information presented in our proposal, please feel free to contact me at (949) 809-5156 or via email at tom.epperson@tetratech.com.

Respectfully,

Tom Epperson, PE
Vice President

Attachments

M:\Marketing\Proposals\FY 2024\SOCWA_CTP PS Final Design

17885 Von Karman Avenue, Suite 500, Irvine, CA 92614-5227
Tel 949.809.5000 tetratech.com

Price Proposal

Coastal Treatment Plant Drainage Pump Station
Final Design

Submitted to: South Orange County Wastewater Authority

Contract Type: T&M

Price Summary / Totals	
Task Pricing Totals	380,000
Specify Add'l Fees on Setup	0
Technology Use Fee	
Total Price	**380,000**

Project Phases / Tasks	Total Labor Hrs	Project Manager (Tom Epperson)	Assistant Project Manager (Neha Gajjar)	Lead Project Engineer (Matt Vera)	Lead Design Engineer (Jamie McElyea)	Design Engineer (Patrick Kol)	Engineer/CADD (Miranda Leibig)	WP (Deana Escamilla)	Structural Manager (Eric Yuen)	Structural Engineer (Jose Quiroz)	Structural Design (Miguel Manpanlay)	Structural CADD (Eric Hutchins)	Electrical Manager (Mazen Kassar)	Electrical Engineer (Doug Seaman)	Electrical Designer (James Roberts)	Electrical Designer (Johnson Le)	Labor	Subs	ODCs	Task Pricing Totals
		360.00	315.00	190.00	150.00	130.00	120.00	140.00	260.00	170.00	130.00	155.00	315.00	170.00	130.00	120.00				
		Civil/Mechanical	Civil/Mechanical	Civil/Mechanical	Civil/Mechanical	Civil/Mechanical	Civil/Mechanical	Civil/Mechanical	Structural	Structural	Structural	Structural	Electrical	Electrical	Electrical	Electrical				
																	Pricing by Resource			
Project Phases / Tasks	**2,084**	60	40	180	280	280	280	16	40	102	16	80	120	80	230	280	339,760	38,042	2,198	**380,000**
Task 1 Project Management and Meetings	**56**	**20**	**24**	**12**													**17,040**		**160**	**17,200**
Management (9 mths)	16	8	8														5,400		60	5,460
Virtual Meetings (7)	24	8	8	8													6,920			6,920
Meeting at CTP	8	4	4														2,700		100	2,800
Monthly Submittals (9)	8		4	4													2,020			2,020
Task 2 Data Collection and Document Review	**18**			**6**	**8**	**4**											**2,860**		**140**	**3,000**
Data Collection/Document Review	10			2	4	4											1,500			1,500
Site Visit	8			4	4												1,360		140	1,500
Task 3 Basis of Design	**234**	**10**	**12**	**44**	**62**	**40**	**60**	**6**									**38,280**	**22,402**	**118**	**60,800**
Basis of Design - Option No. 1	73	1		12	24	20	16										10,760			10,760
Basis of Design - North Drainage	29	1		4	8	8	8										4,320			4,320
Preliminary bypass/sequencing Plan (3 alt)	57	1		8	12	12	24										8,120			8,120
Implementation Plan	13	1		4	8												2,320			2,320
Basis of Design Memorandum	46	2	8	12	8		12	4									8,720			8,720
Design Survey	2				1			1									290	3,427		3,717
Geotechnical Evaluation	2				1			1									290	18,975		19,265
Basis of Design Workshop	12	4	4	4													3,460		118	3,578
Task 4 Final Design	**1,776**	**30**	**4**	**118**	**210**	**236**	**220**	**10**	**40**	**102**	**16**	**80**	**120**	**80**	**230**	**280**	**281,580**	**15,640**	**1,781**	**299,001**
Hydraulic Calculations	13	1		4	8												2,320			2,320
HVAC/Ventilation Calculations	41	1		16	24												7,000			7,000
Structural Calculations	40								8	16	16						6,880			6,880
Electrical Sizing/Calculations	32												8	16	8		6,280			6,280
General Sheets (5 shts)	78			6	12	20	40										10,340			10,340
Overall Site Plan/Work Area/Staging Plan	14			2	4		8										1,940			1,940
North Site Civil Plans (2 shts)	51	1		6	12	16	16										7,300			7,300
Perimeter Wall (2 shts)	45	1		4	12	16	12										6,440			6,440
DPS Site and Piping Plan	24	1		1	6	8	8										3,450			3,450
DPS Demolition Plans (4 shts)	77	1		4	16	32	24										10,560			10,560
DPS Wet Well Rehab	21			1	4	8	8										2,790	15,640		18,430
Conceptual Bypass/Phasing/Interim (2 shts)	50	2		8	12	16	12										7,560			7,560
DPS Discharge Piping (2 shts)	51	1		6	12	16	16										7,300			7,300
Drainage/Piping/Site/Misc Details (4 shts)	104	2		12	30	32	28										15,020			15,020
Mechanical Plan and Sections (2 shts)	53	1		8	12	20	12										7,720			7,720
Mechanical Details (2 shts)	41	1		4	8	16	12										5,840			5,840
HVAC/Ventilation	43	1		4	10	16	12										6,140			6,140
Structural Sheets (8 shts)	156								16	68		72					26,880			26,880
Electrical Sheets (15 shts)	410												60		150	200	62,400			62,400
Instrumentation/Controls (5 shts)	160												20	40	40	60	25,500			25,500
Submittal Process (50%, 90%, Bid)	120	2		6	12	12	12	2	12	10		8	12	8	8	16	21,100		1,517	22,617
Constructability Review Workshop	12	4		4									4				3,460		132	3,592
Specifications	76	4	4	14	8			8	2	4			8	8	16		14,840			14,840
Cost Estimates/Schedule	60	2		8	8	8			2	4			8	8	8	4	11,080			11,080
Coordination with Member Agencies	4	4															1,440		132	1,572
Totals	**2,084**	**60**	**40**	**180**	**280**	**280**	**280**	**16**	**40**	**102**	**16**	**80**	**120**	**80**	**230**	**280**	**339,760**	**38,042**	**2,198**	**380,000**

TETRA TECH

2024/2025
HOURLY CHARGE RATE AND EXPENSE REIMBURSEMENT SCHEDULE

Project Management	
Project Manager 1	$230.00
Project Manager 2	$260.00
Sr Project Manager	$315.00
Program Manager	$360.00
Principal in Charge	$360.00
Engineers	
Engineering Technician	$100.00
Engineer 1	$120.00
Engineer 2	$130.00
Engineer 3	$150.00
Project Engineer 1	$170.00
Project Engineer 2	$190.00
Sr Engineer 1	$200.00
Sr Engineer 2	$210.00
Sr Engineer 3	$220.00
Principal Engineer	$300.00
Planners	
Planner 1	$105.00
Planner 2	$115.00
Sr Planner 1	$125.00
Sr Planner 2	$150.00
Sr Planner 3	$175.00
Designers & Technicians	
CAD Technician 1	$65.00
CAD Technician 2	$75.00
CAD Technician 3	$90.00
CAD Designer	$100.00
Sr CAD Designer 1	$145.00
Sr CAD Designer 2	$155.00
CAD Director	$160.00
Survey Tech 1	$50.00
Health & Safety	
H&S Administrator	$95.00
Sr H&S Administrator	$115.00
H&S Manager	$145.00

Construction	
Construction Project Rep 1	$78.00
Construction Project Rep 2	$85.00
Sr Constr Project Rep 1	$100.00
Sr Constr Project Rep 2	$115.00
Construction Manager 1	$165.00
Construction Manager 2	$185.00
Construction Director	$233.00
General & Administrative	
Project Assistant 1	$75.00
Project Assistant 2	$80.00
Project Administrator	$100.00
Sr Project Administrator	$140.00
Sr Graphic Artist	$150.00
Technical Writer 1	$97.00
Technical Writer 2	$124.00
Sr Technical Writer	$155.00
Information Technology	
Systems Analyst / Programmer 1	$77.00
Systems Analyst / Programmer 2	$115.00
Sr Sys Analyst / Programmer 1	$130.00
Sr Systems Analyst / Programmer 2	$196.00
Project Accounting	
Project Analyst 1	$90.00
Project Analyst 2	$114.00
Sr Project Analyst	$155.00

Reimbursable In-House Costs	
Photo Copies (B&W 8.5”x11”)	$ 0.15/Each
Photo Copies (B&W 11”x17”)	$ 0.40/Each
Color Copies (up to 8.5"x11")	$ 2.00/Each
Color Copies (to 11"x17")	$ 3.00/Each
Compact Discs	$10/each
Large format copies	$0.40 S.F.
Mileage-Company Vehicle	$0.80/mile
Mileage-POV	$0.55/mile*

*current GSA POV mileage rate subject to change

All other direct costs, such as production, special photography, postage, delivery services, overnight mail, printing and any other services performed by subconsultant will be billed at cost plus 15%.

NOTE: Rates subject to change annually.

Agenda Item 6.B.

Board of Directors Meeting

Meeting Date: September 5, 2024

TO: Board of Directors

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

STAFF CONTACT: Roni Grant, Associate Engineer

SUBJECT: Contract Award for Coastal Treatment Plant (CTP) Grating Replacement on Aeration/Secondary Deck [Project Committee 15]

Overview

The existing Coastal Treatment Plant (CTP) gratings at the west Aeration and Secondary decks have either deteriorated, are missing, have gaps, or are uneven, which causes safety concerns. The project scope consists of the following:

1. West Aeration Basin Step-Feed Channel concrete and grating improvement.
2. West Secondary Basin Effluent Channel grating and supports improvement.
3. West Secondary Basin Walkway grating improvement.

Bids

SOCWA solicited bids from qualified contractors through Planetbids on June 13, 2024, and met with potential bidders for a site walk. Two bids were received on July 29, 2024, and are summarized below in Table 1. The apparent responsive low bidder is SS Mechanical Construction.

Table 1- Summary of Bids

	Base Bid Item A -	**Filanc**	**SS Mechanical**
1	Mobilization/Demobilization	$25,000.00	$5,700.00
2	Repair concrete channel edges, corroded rebar, replace grating supports and provide additional aluminum plate grating where missing in West Aeration Basin step-feed channel	$153,000.00	$109,240.00
3	Replace existing gratings and add supports around gates, where missing in West Secondary Basin effluent area	$80,000.00	$21,916.00

	Base Bid Item A – (Cont.)	Filanc	SS Mechanical
4	Replace gratings in West Secondary Basin walkway	$25,000.00	$10,270.00
5	All other items necessary to complete the work not in Items 1 through 4	$10,000.00	$0.00
	ADD/DEDUCT - List Bid Items Affected and Amount	N/A	N/A
	Sub Total Add (+) Deduct (-) Items	$0.00	$0.00
	Total Contract Price	$293,000.00	$147,126.00

Cost Allocation

The cost allocation for the construction and contingency is shown in Table 2. Staff requests a contingency of $12,874 for a total project budget of $160,000.

Table 2 – Cost allocation by member agency

Agency	Aeration and Secondary Deck Grating Replacement (35245L)
City of Laguna Beach	$60,656.72
Emerald Bay Service District	$4,776.12
Moulton Niguel Water District	$46,805.97
South Coast Water District	$47,761.19
Total	$160,000.00

Prior Related Project Committee or Board Action (s)

This item was reviewed and discussed by the Engineering Committee on August 15, 2024. The Engineering Committee agreed with staff's recommendation to recommend to the PC 15 Board to award the contract to SS Mechanical Construction.

Budget

The CTP Grating Replacement on Aeration/Secondary Deck (35245L) has a project budget of $50,000, and funds have been collected through June 30, 2024. Staff requests an additional budget of $110,000 for a total revised project budget of $160,000 to cover the project contract and contingency.

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Recommended Action: The Engineering Committee recommends that the PC 15 Board of Directors i) add $110,000 to the CTP Grating Replacement on Aeration /Secondary Deck budget for a total amended budget of $160,000, ii) approve a contract with SS Mechanical Construction for a total of $147,126, and iii) approve a contract contingency of $12,874 for unknown issues discovered during construction.

Agenda Item 6.C.

Board of Directors Meeting

Meeting Date: September 5, 2024

TO: Board of Directors

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

STAFF CONTACT: Roni Grant, Associate Engineer

SUBJECT: Contract Award for J.B. Latham Treatment Plant (JBL) Scum Line Contract Award [Project Committee 2]

Overview

The existing J.B. Latham Treatment Plant (JBL) scum line located at the Plant 1 Aeration Basin No. 1 has deteriorated and is in need of replacement. The project scope consists of the following:

1. Removal and replacement of scum line at the Plant 1 Aeration Basin 1.
2. Removal and replacement of all connections and appurtenances to connect the scum line into the existing system.

Bids

SOCWA solicited bids from qualified contractors through Planetbids on May 29, 2024, and met with potential bidders for a site walk. Three bids were received on August 1, 2024, and are summarized below in Table 1. The apparent responsive low bidder is SS Mechanical Construction.

Table 1- Summary of Bids

	Base Bid Item A -	Filanc	Kingmen	SS Mechanical
1	Mobilization/Demobilization	$30,000.00	$20,000.00	$13,819.00
2	Replacement of approximately 200 feet of scum pipe	$145,000.00	$160,000.00	$158,630.00
3	Replacement of pipe supports, grooved couplings, CIPP liner and sleeve	$175,000.00	$125,000.00	$106,500.00
4	All other items necessary to complete the work not in Items 1 through 3	$20,000.00	$9,500.00	$0.00

	Base Bid Item A – (Cont.)	Filanc	Kingmen	SS Mechanical
	ADD/DEDUCT - List Bid Items Affected and Amount	N/A	N/A	N/A
	Sub Total Add (+) Deduct (-) Items	$0.00	$0.00	$0.00
	Total Contract Price	$370,000.00	$314,500.00	$278,949.00

Cost Allocation

The cost allocation for the construction and contingency is shown in Table 2. Staff requests a contingency of $21,051 for a total project budget of $300,000.

Table 2 – Cost allocation by member agency

Agency	Scum Line Replacement (32233S)
Moulton Niguel Water District	$64,860.00
South Coast Water District	$60,000.00
Santa Margarita Water District	$175,140.00
Total	$300,000.00

Prior Related Project Committee or Board Action (s)

The Engineering Committee reviewed and discussed this item on August 15, 2024. The Engineering Committee agreed with the SOCWA staff's recommendation to recommend that the PC 2 Board award the contract to SS Mechanical Construction.

Budget

The JBL Scum Line Replacement (32233S) has a project budget of $150,000, and funds have been collected through June 30, 2024. Staff requests an additional budget of $150,000 for a revised budget of $300,000 to cover the project contract and contingency.

Recommended Action: The Engineering Committee recommends that the PC 2 Board of i) approve an additional $150,000 to be added to the JBL Scum Line Replacement Project budget for a revised budget of $300,000, ii) approve a contract with SS Mechanical Construction for a total of $278,949, and iii) approve a contract contingency of $21,051 for unknown issues discovered during construction.

Agenda Item 6.D.

Board of Directors Meeting

Meeting Date: Sepember 5, 2024

TO: Board of Directors

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

STAFF CONTACT: Roni Grant, Associate Engineer

SUBJECT: Contract Award for J. B. Latham Treatment Plant (JBL) MCC-M, Switchgear Circuit Breaker, and Portable Generator Connection Pre-Procurement [Project Committee 2]

Overview

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

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

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

This item was discussed at the January 18, 2024, Engineering Committee Meeting and the February 1, 2024 Board of Directors Meeting. The PC 2 Board requested additional information, including a tour of JBL, to understand the ongoing projects better. The tour was conducted by SOCWA staff and participated by the PC 2 Board on May 15, 2024. This item was discussed at the June 13, 2024 Engineering Committee Meeting. The direction was to obtain an updated quote from an Eaton representative (Pacific Parts) and reach out to a Square D representative (Graybar) again. Two quotes were received in August 2024 and are summarized below in Table 1. The quote from Pacific Parts is the most responsive of the two quotes received.

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Table 1 - JBL MCC Quotes

	Line Item	Eaton/Pacific Parts	Square D/Graybar
1	MCC with spare parts	$150,890	$196,862
2	Site Acceptance Testing	$11,528	$34,037
3	Training	$5,604	$8,182
4	Generator Breaker	$33,854	$33,854*
5.	Docking Station	$17,473	$17,473*
6.	Freight (2%)	$4,045	included
7.	Sales Tax	$15,672	$18,615
	Total	$239,065	$309,022

*Square D did not provide costs for the generator breaker and docking station; therefore, the same costs were assumed from the Eaton quote.

Cost Allocation

The total quote from Eaton/Pacific Parts is $239,065. The Engineer's Estimate was $350,000. Staff requests a contingency of $20,000 to cover other fees that might not be included in the project quote. Table 2 shows the allocation of costs by member agency, including contingency.

Table 2 – Cost Allocation by Member Agency

Agency	Cost
Moulton Niguel Water District	$59,792
Santa Margarita Water District	$124,558
South Coast Water District	$74,714
Total	$259,065

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

Prior Related Project Committee or Board Action (s)

The Engineering Committee reviewed and discussed this item on August 15, 2024. The Engineering Committee agreed with the SOCWA staff's recommendation to recommend that the PC 2 Board award the contract to Eaton/Pacific Parts.

Recommended Action: The Engineering Committee recommends that the PC 2 Board approve i) the contract to Pacific Parts & Controls for a total of $239,065 and ii) approve a contract contingency of $20,000 for the JBL MCC M and appurtenances pre-procurement.

Agenda Item 7.A

Board of Directors Meeting

Meeting Date: September 5, 2024

TO: Board of Directors

FROM: Amber Boone, Director of Environmental Compliance

SUBJECT: Wastewater-Based Epidemiology [Project Committees 2, 15 and 17]

Overview

As noted in the June 2024 General Managers Report, SOCWA staff was notified by Verily that the Wastewater SCAN program would officially end on June 30, 2024. The Verily program provided a stipend for SOCWA to participate in the wastewater-based epidemiology (WBE) surveillance of the three SOCWA treatment facilities: Regional Treatment Plant, Coastal Treatment Plant, and the JB Latham Plant. The program tested for SARS-CoV-2, Influenza, Respiratory syncytial virus (RSV), norovirus, mPox, and Hepatitis. The program concluded at the end of June due to a reduction in funding that Verily has received for this project. SOCWA staff reached out to Verily and requested additional pricing for FY 24-25. Verily indicated that they can provide testing for two years for the price of one, with a cost due July 2025 due to SOCWA's historic participation in the Wastewater SCAN program.

Discussion

The Wastewater SCAN program partners with the California Department of Public Health (CDPH), which oversees the California Wastewater Surveillance (Cal-SuWers) Program. The Wastewater SCAN program has been privately funded, while the Cal-SuWers program is partially funded by the Centers for Disease Control (CDC) under the National Wastewater Surveillance System. Congressman Robert Garcia and Congressman Don Bacon recently introduced the *Surveilling Effluent Water for Epidemic Response (SEWER) Act*, which will fund the work of the CDC's National Wastewater Surveillance System. The bill authorizes the program at $150 million for each of the next five fiscal years but has not yet passed, which leaves a funding gap for WBE services that have found renewed interest in the public as an indicator of public health outbreaks[1].

SOCWA reached out to the Orange County Health Care Agency (OCHCA) to understand how the OCHCA utilizes the WBE information in any related public health decisions. OCHCA pointed SOCWA staff to their website[2] , which tracks COVID cases and associated deaths. The OCHCA indicated they review the wastewater surveillance data periodically as part of their community public health surveillance, along with percent positivity and hospitalizations due to COVID. The WBE data is not used for public policy decision-making. Based on discussions at the SOCWA Board of Director's meeting on August 8, 2024, SOCWA reached back out to OCHCA for a cost-sharing request, but has not heard back from staff as of August 27, 2024.

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[1] Lin II, R.G. California hits 'very high' COVID levels as virus in wastewater jumps significantly. LA Times. July 15, 2024. LA Times: https://www.latimes.com/california/story/2024-07-15/covid-levels-jump-in-california-l-a-county-wastewater

[2] Orange County Health Care Agency. COVID tracker. https://ochealthinfo.com/covid.

Fiscal Impact

SOCWA reached out for updated pricing for its WBE services to continue monitoring through two potential providers: Verily and an unnamed private company. The goal was to compare costs and services for ongoing monitoring.

Verily offered a comprehensive package that includes testing twice per week at three treatment plants. Their service would measure SARS-CoV-2 and three additional pathogens at a cost of $90 per sampling event. Verily proposed a two-year contract with payment due in July 2025.

In contrast, the private company quoted a higher price of $300 per sampling event, with the same number of samples per week. There were options to increase the number of pathogens, but the pricing included a tiered increase in rate per sampling event.

After reviewing both options, the staff recommends continuing the WBE program with Verily and the Wastewater SCAN program. Verily offers a two-year contract to restart testing without any payments due FY 2024-25. The total cost of this contract would not exceed $9,360 per facility over the two-year period from FY 24-25 through FY 25-26.

The following are the allocations for the PC and agencies:

PC2-JBL	Total	Common Allocation
MNWD	$2,091.96	22.35%
SCWD	$2,285.71	24.42%
SMWD	$4,982.33	53.23%
Subtotal	$9,360.00	100.00%

PC15-CTP	Total	Liquids/ Common Allocation
CLB	$3,548.38	37.91%
EBSD	$279.86	2.99%
MNWD	$2,737.80	29.25%
SCWD	$2,793.96	29.85%
Subtotal	$9,360.00	100.00%

PC17-RTP	Total	Common Allocation
CLB	$586.87	6.27%
EBSD	$30.89	0.33%
ETWD	$960.34	10.26%
MNWD	$7,312.97	78.13%
SCWD	$468.94	5.01%
Subtotal	$9,360.00	100.00%

Agency Totals	Total
CLB	$4,135.25
EBSD	$310.75
ETWD	$960.34
MNWD	$12,142.73
SCWD	$5,548.61
SMWD	$4,982.33
Totals	$28,080.00

Prior Related Project Committee or Board Action(s)

The Engineering Committee recommended the Board of Directors consider this policy decision itme at the upcoming September 2024 meeting.

Recommended Action: Staff recommends that the Board of Directors approve a two-year contract with Verily for wastewater-based epidemiology services for three facilities, PC 2, PC 15, and PC 17, at a cost not to exceed $9,360 per facility, with payment due July 2025.

Agenda Item 7.B.

Budgeted: Yes
Budget amount: $11,800
Meeting Date: September 5, 2024

TO: SOCWA Board of Directors

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

STAFF CONTACTS: Amber Boone, Director of Environmental Compliance
Sean Peacher, Environmental Compliance Safety Risk Manager

SUBJECT: Multi-Jurisdictional Hazard Mitigation Plan (MJHMP)

Summary/Discussion

SOCWA is a Participating Agency in the WEROC Multi-jurisdictional Hazard Mitigation Plan (MJHMP). The MJHMP is a five-year strategic plan to improve local resilience to hazard events. The current MJHMP was adopted by the SOCWA Board of Directors (Resolution No. 2019-04), is required to be updated every five years to maintain grant eligibility, and will expire in March 2025. In addition to protecting WEROC and Participating Agencies from current and future hazards, agencies are required to maintain a current, approved Hazard Mitigation Plan under the provisions of the federal Robert T. Stafford Act and the Disaster Mitigation Act of 2000 in order to be eligible for Federal Emergency Management Agency (FEMA) hazard mitigation funding. Part of the FEMA requirement for the agency preparing the MJHMP, is to meet General Public and Stakeholder Outreach requirements. WEROC and the project team, including technical consultants, have requested the MJHMP Participating Agencies to post the recommended General Public and Stakeholder Outreach information on each Participating Agency's website. If not posted on SOCWA's website, SOCWA may be ineligible to receive FEMA hazard mitigation funding by not meeting the General Public and Stakeholder Outreach requirements of the WEROC MJHMP.

WEROC (including El Toro Water District, Laguna Beach County Water District, Moulton Niguel Water District, Santa Margarita Water District, and South Coast Water District) plan on releasing a public review draft in Fall 2024, with final adoption planned for Winter 2025 following approval from the California Office of Emergency Services and FEMA.

The MJHMP is being prepared by a project team comprised of SOCWA staff, members from participating hazard mitigation planning committees, key stakeholders (non-governmental organizations, businesses, other public agencies, etc.), and technical consultants. During the MJHMP planning process, members of the general public and key stakeholders are provided an opportunity to become engaged. This is because guidelines from FEMA require that the agency preparing the plan create opportunities for members of the public to become involved in developing their MJHMP. This process helps ensure the MJHMP reflects local community values, concerns, and priorities. The MJHMP will analyze how stakeholders, buildings, and infrastructure are vulnerable to the threats posed by natural and human-caused hazards that threaten the community. Following these guidelines, WEROC and Participating Agencies propose to meet

FEMA requirements through the stakeholder outreach process, with the intent to educate the community and obtain feedback openly and transparently to support the preparation of the plan. The MHJMP will outline a Hazard Mitigation Strategy that will provide specific policy and action recommendations to SOCWA to improve overall resiliency to hazard events.

Lastly, an MJHMP is a requirement to receive federal grants and loans. This includes pre-disaster mitigation funding similar to funding recently received by MNWD.

Prior Related Project Committee or Board Action(s)

An Agenda Item was presented to the SOCWA Engineering Committee by Sean Peacher of SOCWA and Vicki Osborn of WEROC on August 15, 2024, detailing the MJHMP, including the FEMA guidelines, which require that the agency prepare the plan to create opportunities for members of the public to become involved in developing their MJHMP. The Recommended Action to the SOCWA Board is based on the presentation to the Engineering Committee on August 15, 2024.

Fiscal Impact:
SOCWA budgeted $11,800 in the Fiscal Year 2024-25 Budget.

Recommended Action: The Engineering Committee recommends completing the MJHMP General Public and Stakeholder Outreach process utilizing the SOCWA Website to post pertinent information, provide SOCWA contact emails, and post required public survey links as required to comply with FEMA requirements.

Attachment: Sample SOCWA.COM Website Page and Survey Link

SAMPLE SOCWA.COM WEBSITE PAGE POSTING AND SURVEY LINK

Local Hazard Mitigation Plan

The South Orange County Wastewater Authority (SOCWA) and Participating Agencies are preparing an update to its Multi-Jurisdictional Hazard Mitigation Plan (MJHMP). This plan will help create a safer community for residents, businesses, and visitors. The MJHMP allows public safety officials and agency staff, elected officials, and members of the public to understand the threats from natural and human-caused hazards in our community. The plan will also recommend specific actions to proactively decrease these threats before disasters occur.

Why have an MJHMP?

An MJHMP will help SOCWA and Participating Agencies better plan for future emergencies. Usually, after a disaster occurs, communities take steps to recover from the emergency and rebuild. An MJHMP is a way for the Agency to better prepare in advance for these disasters so less damage occurs, and recovery is easier. Our community can use MJHMP strategies to reduce instances of property damage, injury, and loss of life from disasters. Besides protecting public health and safety, this approach can save money. Studies estimate that every dollar spent on mitigation saves an average of four dollars on response and recovery costs. An MJHMP can also help strengthen the mission of public safety officers, such as police and fire department staff, providing them with clear roles and responsibilities to build a safer community. Besides helping protect our assets and properties within the planning area, our MJHMP will make the Agency eligible for grants from the Federal Emergency Management Agency (FEMA) that can be used to further improve safety and preparedness in the community. Having an adopted MJHMP can also provide eligibility to receive more financial assistance from the State when disasters occur.

What is in our MJHMP?

SOCWA and Participating Agencies MJHMP includes four main sections:

- A summary of the natural and human-caused hazards that pose a risk to our community.
- An assessment of the threat to MWDOC and Participating Agencies, which will describe how our community is vulnerable to future disasters.
- A hazard mitigation strategy, which will lay out specific policy recommendations to carry out over the next five years.
- A section on maintaining the plan, which will help ensure that our MJHMP is kept up-to-date.

What hazards will our MJHMP help protect against?

The MWDOC MJHMP plans to include the following natural and human-cause hazards:

- Power Outage
- Wildfire
- Seismic Hazards – Ground Shaking
- Seismic Hazards – Liquefaction
- High Winds/Santa Ana Winds
- Drought
- Dam/Reservoir Failure
- Flood

- Earthquake Fault Rupture
- Landslide/Mudflow
- Contamination
- Human-Cause Hazards – Terrorism
- Human-Caused Hazards – Hazardous Materials
- Urban Fire
- Geologic Hazards – Land Subsidence
- Geologic Hazards – Expansive Soils
- Tsunami
- Climate Change
- Coastal Storms/Erosion

While many of these hazards may affect our specific agency, for those that are not relevant, the plan will provide an explanation regarding its exclusion.

How is our MJHMP being prepared?

MWDOC and Participating Agencies have assembled a Hazard Mitigation Planning Committee (HMPC), which includes representatives from Agency Departments and is supported by key stakeholders and technical consultants. Together, these participants form the project team responsible for guiding the overall development of our MJHMP.

When will our MJHMP be done?

The project team plans to release a Public Review Draft MJHMP in Fall 2024. After members of the public provide comments and feedback, the Agency will revise the plan and send it to the California Office of Emergency Services and FEMA for review and approval. Once approved by these agencies, the decision making body of our Agency will adopt the final MJHMP.

How can I get involved?

You can get involved in preparing our MJHMP in different ways.

- The Agency will have public engagement opportunities to share information about our MJHMP and obtain community feedback. Stay tuned for these opportunities.
- Please take our online survey https://forms.gle/RmJDAJddw4CfnrXC7, which is available through October 2024. Please share this link with your family and friends.
- The Agency will release a draft of the completed MJHMP for public review. Please review and provide comments on this document, either at community engagement opportunities or in writing.
- Encourage members of the Agency's Board of Directors to adopt the plan and begin implementing it.
- Reach out to Sean Peacher at speacher@socwa.com or (949) 234-5443 for more ways to stay involved.

What can I do now to be better prepared for disasters?

- Know the hazards that may affect you at home, work, or school. You can find out more at http://myhazards.caloes.ca.gov/.
- Assemble an emergency kit for your home. In a disaster, you may have to rely on supplies in your emergency kit for at least three days. Be sure to include supplies for any pets and anyone in your home with special needs. Learn more at https://www.ready.gov/kit.

- Have a disaster plan for your household, including how people should contact each other if a disaster occurs and where you should meet.
- Learn about your neighbors and how to help them. In a disaster, emergency responders may not be able to reach your neighborhood for a while. Know if your neighbors have any special needs, and check on them as soon as possible.
- Make sure your homeowner's or renter's insurance covers you from disasters such as earthquakes and floods. If these disasters occur, having good insurance coverage will help you recover more easily.
- Volunteer with an emergency response or community service organization that does work on disaster education and preparation.
- Speak to your employer about creating a disaster recovery, workforce communication, and/or business continuity plan. If they already have one or more of these plans in place, make sure you and your co-workers know it.

Agenda Item 7.F.

Board of Directors Meeting
Meeting Date: September 5, 2024

TO: Board of Directors

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

SUBJECT: Acting General Manager's Status Report

ADMINISTRATION

Member Agency Requests

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

- Attended All Managers' meetings regarding the exit of MNWD.

ENVIRONMENTAL COMPLIANCE/ OPERATIONS/ENGINEERING

CWEA Emerging Leaders Article

SOCWA's Phil Peter was featured in a recent article on Emerging Leaders in the recent California Water Environment Association magazine. Phil was one of seven California wastewater professionals in the July magazine, making a difference in our industry. The article is attached to this report.

CASA Annual Conference

The following are summaries from the Annual CASA conference.

1. Legislative Updates:

At the federal level, the Environmental Protection Agency (EPA) budget allocation was under discussion, along with concerns about PFAS regulations and potential liability issues. The Wipes Act is progressing, the NPDES permit term bill made it to the House for reading, and new cybersecurity reporting requirements are being introduced for critical infrastructure. These requirements mandate reporting hacks within 72 hours and ransomware attacks within 24 hours to the Department of Homeland Security, affecting 16 critical industries. CASA supports the SEWER ACT funding of $115M which creates a national wastewater surveillance system under the Department of Health and Human Services.

The state is facing financial challenges, with no money available for new initiatives. Bills related to wastewater consolidation, public contracts, proposition 218 remedies, public works, property-related water and sewer fees and assessments remedies, an AI bill, teleconferencing, and Brown Act closed sessions were discussed at the attorney's committee. At the State level, Senator Ben Allen, El

Segundo, authored the Safe Drinking Water, Wildfire Prevention, Drought Preparedness, and Clean Air Bond Act of 2024 (Climate Bond), totaling $10 billion, with $3.8 billion allocated for water and wastewater infrastructure. Efforts are being made to secure funding to the State Revolving Fund (SRF), $386.25 million is being sought for water recycling, with support from Water Reuse if amended. The Climate Bond is a watch position as the bond heads to the November 5, 2024, ballot. CASA is in the watch position on this bill.

2. Wastewater and Biosolids Management:

Regional biosolids management approaches were discussed, with a focus on PFAS in biosolids, related research, risk assessment, and developing regulations and bans. Effluent limit guidelines are being established to determine what is being discharged from wastewater treatment plants (WWTPs). There is a national study that now involves sampling 200-300 plants sampling influent and effluent. The study aims to identify which PFAS compounds are present. The California 13267 order results cannot be used because they used method 1633. The new method utilizes a granular activated carbon clean-up step, which can bias results, which is being investigated.

A briefing on the NACWA discussion on the risk assessment and regulatory process, suggesting that regulations are likely to be implemented within a 3–5-year timeframe, with 5 years being a probable estimate. The specific timeframe and the role of risk assessment in determining concentration and application rates remain uncertain. A compliance schedule may be considered. The risk assessment for PFOA and PFOS is set at 20 ppb, which is unlikely to pose an issue; however, lower levels could lead to communication challenges.

There is a National Collaborative at the West Center at Arizona State University that involves 23 different biosolids land application sites across different climatic zones and groundwater conditions (14 sites). A preliminary report indicates that municipal sites have PFAS levels less than 20 ppb, with no movement below the soil profile. Groundwater samples have not yet been analyzed. One known, high-level site, a textile residual, was included to represent a worst-case scenario that showed up in the results.

3. Change Management in Organizations:

Mabel Miguel of the University of North Carolina provided a presentation on managing organizational change with strategies for effective leadership during change. Miguel first noted that the difference between experience and expertise lies in reflection, which involves connecting with models and stories, and conducting research on models and frameworks. A sense of progress is essential for successful change management. Change is inevitable, and managing resistance is crucial for success. A systematic process, usually slow, is required. However, changes that were thought to take years can sometimes be implemented in just 10 days if framed correctly. Creating a culture of change is important, and learning to lead change effectively is essential in a VUCA (volatility, uncertainty, complexity, and ambiguity) environment.

Survival is not mandatory, and the failure rate of change is high, with 80% of major changes failing to realize their intended gains. Industry transformation is ongoing, and success is defined as completing a change on time, on budget, and with people who trust you. Understanding people is crucial, as people do not always adapt to change easily. The Transitions Model helps understand what people go

through during a change initiative, and being in touch with people is key to success. The phases of the Transitions Model are ending, losing, and letting go; neutral zone; and new beginnings.

People experience various emotional reactions during change, including denial, fear, resistance, exploration, and commitment. To bring people along to new beginnings, look for formal and informal leaders and use Emotional Intelligence (EI) theory. A STEEP analysis considers social/demographic, technological, economic, environmental/geographic, and political/legal/governmental factors. People need to understand why change is necessary, and anticipating the character of war and being proactive in making changes is important.

The Change Commitment Curve shows the stages of adoption: awareness, understanding, buy-in/positive perception, experimentation & adoption, and commitment (institutional and internalization). Managing rumors is crucial and can be done by communicating the reasons for change, current status, and future plans. Addressing the root issues causing negativity is also important. When implementing change, it is essential to understand potential barriers, take responsibility, be prepared for resistance, and adapt as needed. Education, participation, facilitation, and negotiation can be used to manage change, and metrics are important for measuring success.

4. Energy and Infrastructure:

Microgrid management strategies provided a simple explanation of the need to invest in microgrid resources to offset energy price increases. A microgrid is a simple configuration with a battery and a microgrid control system connected to the electricity system is the minimum viable scope.

5. Financial Topics:

The discussion revolved around various financial instruments and strategies for funding water infrastructure projects, particularly for small agencies. Robb Grantham, from SMWD. Noted a State Water Resources Control Board survey which estimates that $100 billion will be needed over the next 20 years, and assuming this amount triples, the State Revolving Fund (SRF) would need to provide $1 billion per year. Grantham suggests borrowing at a lower interest rate than what is available on the market.

Pooled financing is being considered to issue debt at an interest rate for small agencies that is lower than the interest rate available in the market. This involves a credit enhancement process, where funds are used as a backstop to lower the credit risk. Andrew Sour, from the EPA, and the Padilla office are discussing the possibility of a federal or state program for pooled financing. Banks are supportive of this approach, as it allows them to issue debt more easily.

The discussion also touches on the potential harm of this approach and its economic efficiency. Municipal financing experts are being consulted to provide insights and guidance on the matter. Overall, the focus is on finding financially viable solutions to fund the much-needed water infrastructure projects, particularly for small agencies that may struggle to secure funding independently.

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6. Public Communication

Building trust and transparency is essential for organizations looking to foster positive relationships with stakeholders. By encouraging engagement, openly communicating, and actively listening to feedback, organizations can increase awareness, understanding, and change perceptions. This transparency humanizes the organization and helps gain support for critical issues such as rates, funding, or policy changes. Engaging with stakeholders through various methods, such as public meetings, surveys, and regular updates, creates opportunities for two-way communication and builds rapport. By prioritizing these values and showing a willingness to engage with the community, leaders can foster a sense of shared purpose and collaboration, ultimately creating a strong foundation for success and building lasting relationships with the communities they serve.

7. Engineering and Research Group

SOCWA staff has been working with CASA's Regulatory Workgroup and the CASA Associate's Committee on industry-related research priorities with the following two products discussed at CASA's Annual Conference:

- A reference list of available experts (consultants, academics, and others) on several topics of interest to the clean water community. This list would consist of consultants, academics, and agency experts in a variety of specific topics that could be referenced and utilized by CASA and the regional association members as needs arise.
- Second, CASA is working to identify a small number (2-3) of topics and associated subject matter experts to bring to the State Water Board to collaborate on identifying important research questions that feed into topics of mutual interest to the Water Board and clean water agencies.

8. Closing Session Highlights:

The current political landscape is facing various challenges and potential changes. Budget issues are affecting the progress of bills, while federal updates and priorities are influencing the direction of policy decisions. Discussions are ongoing regarding potential political shifts and their impacts on various aspects of governance. Changes in committee compositions and the possibility of shifts in Senate and House control are being closely monitored. Specific politicians and their roles are also being discussed in the context of these potential changes. As the situation continues to evolve, it is important to stay informed about the latest developments and their implications for the future of policy-making and political decision-making.

NWRI Independent Review Panel Update

The NWRI Draft Report, issued on June 5th, includes 35 recommendations supported by 17 findings. NWRI extended the comment deadline to July 23rd, receiving 76 unique comments that generally focused on enhancing accessibility, seeking clarification, and identifying potential errors. The IPR is currently evaluating these comments, with NWRI already working on an Executive Summary and an Appendix to address feedback. A target date for the Final Report will be provided once the response strategy is finalized. The SWRCB aims to adopt the amendment by December 15, 2026, with public comments opening by December 30, 2025, guiding regulations on OAH in California.

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Government Artificial Intelligence Coalition

The AI Workshop on 5/22/2024, sponsored by Clean Water SoCal, connected SOCWA staff with the Government Artificial Intelligence Coalition (GOV AI) to share resources and best practices for responsible AI use at SOCWA. Studies from the Stanford Institute of Artificial Intelligence[1] highlights AI's potential to improve task efficiency, enhance output quality, and bridge the skill gap between workers, but also warned that improper oversight could lead to diminished performance. In response, SOCWA will draft an AI Policy for the Board to consider in October to provide clear guidance and decision-making support for all personnel and partners involved with AI systems, ensuring adherence to guiding principles and proper governance. The policy will also emphasize the importance of risk management, alignment with existing data governance, and the establishment of procedures to ensure compliance with relevant laws and agency policies.

[1] Stanford University. (2024) AI Index Report. https://aiindex.stanford.edu/report/

PHIL PETER, MT

Mechanical Technician at
South Orange County Wastewater Authority

By Roni Gehlke, *Clean Water* Magazine, editor

Mechanical technician Phil Peter takes great pride in his position at the J.B. Latham plant in Dana Point. This is the same facility that his grandfather helped to design while serving as the City of San Clemente engineer from the early 60s to the late 70s. His pride comes not only from his grandfather's efforts but also from the work he himself does to improve the quality of life for those in his community.

After attending the Universal Technical Institute to become an automotive technician with the hope of working in NASCAR one day, Peter pursued different opportunities that eventually led him to his current career path. One of those paths involved working as an engineer on a crab boat in Alaska. After moving back to California, he realized that his experience on the boat was similar to the knowledge needed for a position at the South Orange County Wastewater Authority (SOCWA).

"It is amazing how similar the mechanics in marine crafts are to the pump systems we work with here at the plant," he said.

Since starting at SOCWA nine years ago, Peter has been involved in a variety of projects, which he says keeps the job interesting.

"A lot of the equipment here is older, and I really like the ability to make something that is old new again and the opportunity to make it better," he said.

According to Peter's supervisor, Ernesto Leal, Peter's solid mechanical background allows him to serve and support all company vehicles. Leal said that many times, other members of the staff utilize Peter's knowledge to perform general maintenance on the vehicles, as well as troubleshoot "Check Engine" warnings.

"Phil consistently employs extensive knowledge within all SOCWA Treatment Plants, including knowledge of tools, machinery, pumps, valves, and piping," Leal said. "Phil utilizes this knowledge to manage small capital projects, emergency repairs, engineering support, and construction contractor accountability."

Peter recently worked on two projects that allowed him to use his skills. He rebuilt the export pump at SOCWA's Coastal Treatment Plant and demolished the north daft circulation pump and pad to build a new concrete pad to install the new pump.

Additionally, he successfully managed and completed the cleaning projects for two digesters at SOCWA's JB Latham Treatment Plant. The project included planning with other departments to accommodate the required equipment for cleaning the digester and the final steps of releasing a clean and safe digester to the contractors for rehabilitation outlined in the construction project.

"PHIL IS ALWAYS WILLING TO TAKE CARE OF ANY JOB DAILY. HE ROUTINELY LEADS BY EXAMPLE WITH HIS DEDICATION AND HARD WORK."

Leal also reported that Peter's expertise was needed when the district's critical emergency Godwin pump failed to start.

"Phil worked through every mechanical possibility and eventually narrowed the problem to a faulty ignition wiring diode. This problem was a challenging issue to find. Few, if any, would have been able to locate it," he said.

When SOCWA needed an onsite crane operator, Peter took the necessary courses and received his crane certification from the National Commission for the Certification of Crane Operators (NCCCO). This ability allowed Peter to operate and lead the crane operations to clean out a secondary tank filled with sand removed from the digester cleaning.

"This achievement was a big help for our agency," Leal said. "Phil is always willing to take care of any job daily. He routinely leads by example with his dedication and hard work."

Photos courtesy of Ian Loska