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

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

October 3, 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.**

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South Orange County Wastewater Authority
Board of Directors Meeting
October 3, 2024

Agenda

1. CALL TO ORDER

2. PLEDGE OF ALLEGIANCE

3. ORAL COMMUNICATIONS

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

4. APPROVAL OF BOARD MEMBER REQUEST FOR REMOTE PARTICIPATION

ACTION Board Discussion/Direction and Action.

PAGE NO.

5. CONSENT CALENDAR

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

1. Board of Directors Special Meeting of August 8, 2024
2. Board of Directors Meeting of September 5, 2024

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

B. August 2024 Operations Report14

1. Monthly Operational Report
2. SOCWA Ocean Outfall Discharges by Agency
3. Beach Ocean Monitoring Report
4. Recycled Water Report
5. Pretreatment Report

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

C. Capital Improvement Program Status Report (September).....56

ACTION Information item.

D. Capital Improvement Construction Projects Progress and Change Order Report (August)
[Project Committees 15 and 17].....60

ACTION Information item.

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South Orange County Wastewater Authority
Board of Directors Meeting
October 3, 2024

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6. ENGINEERING MATTERS

A. On-Call Project Management Services [Project Committee 2, 5, 15, 17, 21 and 24]..... 62

ACTION The Engineering Committee recommends that the Board of Directors i) approve a two-year contract with Project Partners not to exceed \$200,000 in a fiscal year (total \$400,000) for the On-Call Project Management Services., and ii) approve a two-year contract with Z&K Consultants not to exceed \$200,000 per year (total \$400,000) for the On-Call Project Management Services.

B. Contract Award for SCADA Server Upgrades [Project Committees 2 and 15]..... 199

ACTION The Engineering Committee recommends that the Board of Directors i) increase the FY2023-24 budgets for Projects 32243C and 35249L by \$20,000 to \$220,000 each (\$440,000 Total) ii) award a contract to W. M. Lyles, Co. for purchasing and installing replacement SCADA servers at JBL and CTP at the cost of \$405,900.00, and iii) authorize a contract contingency of \$20,296.00 (5% of the contract).

7. GENERAL MANAGER'S REPORT

A. Discussion on the MNWD Proposal

- Moulton Niguel Water District (MNWD) Proposal to Transition the Regional Treatment Plant (RTP) to (MNWD) & Facilitate MNWD's withdrawal from SOCWA [PC 2, 5, 8, 12, 17, 21, and 24]

ACTION Board Discussion/Direction and Action.

B. Regional Treatment Plant (RTP) Intent to Transfer Letter208

ACTION Board Discussion/Direction and Action

C. Artificial Intelligence (AI) Policy210

ACTION Staff recommends that the Board of Directors approve Artificial Intelligence (AI) Policy.

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

- JPA Revision Process (Standing item)

ACTION Board Discussion/Direction and Action.

E. Acting General Manager's Report215

ACTION Board Discussion/Direction and Action.

South Orange County Wastewater Authority
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F. Upcoming Meetings Schedule:

- October 1, 2024 – PC 2 Committee Meeting – Closed Session
- October 3, 2024 – Board of Directors Regular Meeting
- October 10, 2024 – Engineering Committee Meeting
- October 15, 2024 – Finance Committee Meeting
- November 7, 2024 – Board of Directors Regular Meeting

ACTION Information Item.

8. CLOSED SESSION

- A. Closed Session Conference Pursuant to Government Code § 54957
 - Public Employee Release
- B. Closed Session Conference with Labor Negotiators Pursuant to Government Code § 54957.6
 - SOCWA Designated Representatives: Brad Neufeld and Frank Ury
 - Unrepresented Employee: Director of Environmental Compliance
- C. Closed Session Conference Pursuant to Government Code § 54957
 - Public Employee Appointment
Title: Acting General Manager
- D. Closed Session Conference Pursuant to Government Code § 54957(b)(1)
 - Public Employee Appointment
Title: General Counsel
- E. Report Out of Closed Session

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
November 7, 2024

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

Board of Directors

August 8, 2024

DRAFT

The Special Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors Meeting was held in person and via teleconference on August 8, 2024, at 8:30 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Board of Directors were present:

MIKE DUNBAR	Emerald Bay Service District	Director
KATHRYN FRESHLEY	El Toro Water District	Director
MARK McAVOY	City of Laguna Beach	Alternate Director
SAUNDRA JACOBS	Santa Margarita Water District	Alternate Director
MATT COLLINGS	Moulton Niguel Water District	Director
RICK SHINTAKU	South Coast Water District	Alternate Director

Absent:

DAVE REBENS DORF	City of San Clemente	Director
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Staff Present:

JIM BURROR	Acting General Manager/Director of Operations
AMBER BOONE	Director of Environmental Compliance
MARY CAREY	Finance Controller
RONI GRANT	Associate Engineer
DINA ASH	HR Administrator
JEANETTE COTINOLA	Procurement/Contracts Manager
KONSTANTIN SHILKOV	Senior Accountant
ANNA SUTHERLAND	Accounts Payable
MATT CLARK	IT Administrator
DANITA HIRSH	Executive Assistant

Also Present:

ADRIANA OCHOA	Procopio Law	DON FROELICH	Moulton Niguel Water District
MIKE GASKINS	El Toro Water District	CHARLES BARFIELD	OC Employee Assoc. (OCEA)
ROGER BUTOW	Clean Water Now (CWN)	DENNIS CAFFERTY	EL Toro Water District
ROD WOODS	Moulton Niguel Water District	SHERRY WANNINGER	Moulton Niguel Water District
ROBB GRANTHAM	Santa Margarita Water District	TARYN KJOLSING	South Coast Water District
KELSEY DECASAS	Moulton Niguel Water District	MARC SERNA	South Coast Water District
KARI VOZENILEK	Kidman Gagen Law, LLP	ALLISON BURNS	Stradling Law
DAVE JONES	Hazen & Sawyer	DAVE LARSEN	Moulton Niguel Water District
LISA OHLUND	Ohlund Mgmt. & Tech Svc.		

1. CALL TO ORDER

Director Saundra Jacobs called the meeting to order at 8:33 a.m.

2. PLEDGE OF ALLEGIANCE – Director Saundra Jacobs

3. ORAL COMMUNICATIONS

None.

4. APPROVAL OF BOARD MEMBER REQUEST FOR REMOTE PARTICIPATION

None.

5. CONSENT CALENDAR

ACTION TAKEN

A motion was made by Director Collings and seconded by Director McAvoy to approve the Consent Calendar agenda items 5A and 5I as submitted.

Motion carried:	Aye 6, Nay 0, Abstained 0, Absent 1
Director Dunbar	Aye
Director Freshley	Aye
Director Collings	Aye
Director McAvoy	Aye
Director Jacobs	Aye
Director Shintaku	Aye
Director Rebensdorf	Absent

(5A and 5I)

- A. 1. Board of Directors Meeting Minutes of June 6, 2024
- 2. Board of Directors Special Meeting Minutes of July 8, 2024
- 3. Board of Directors Special Meeting Minutes of July 25, 2024
- B. PC 2 Committee Meeting Minutes of July 15, 2024
- C. Engineering Committee Meeting Minutes of April 11, 2024
- D. Finance Committee Meeting Minutes of April 30, 2024
- E. Financial Reports for the Month of April 2024 and Q3 FY 2023-24 Cash Roll Forward
Approved Action: The Board approved (i) receiving and filing the April 2024 Financial Reports, (ii) ratifying the April 2024 disbursement for the period from April 1, 2024, through April 30, 2024, totaling \$1,967,764, (iii) receiving and filing the Fiscal Year 2023-24 Q3 Cash Roll Forward as submitted.
- F. May 2024 Operations Report
Approved Action: Information Item; received and filed.
- G. June 2024 Operations Report
Approved Action: Information Item; received and filed.
- H. Capital Improvement Program Status Report (June/July)
Approved Action: Information Item.
- I. Capital Improvement Construction Projects Progress and Change Order Report (June)
Approved Action: Information Item.

6. ENGINEERING MATTERS

- A. Regional Treatment Plant (RTP) Motor Control Centers (MCC) A, C, G, and H Replacement Design [Project Committee 17]

ACTION TAKEN

A motion was made by Director Collings and seconded by Director Freshley to i) approve a contract with Carollo Engineers for a total of \$492,503 for the RTP MCC A, C, G, and H Replacement Design, and ii) approve a contract contingency of \$20,000 for unknown issues discovered during design.

Motion carried: Aye 5, Nay 0, Abstained 0, Absent 0
Director Dunbar Aye
Director Freshley Aye
Director Collings Aye
Director McAvoy Aye
Director Shintaku Aye

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

ACTION TAKEN

A motion was made by Director Collings and seconded by Director Shintaku to approve the contract to Carollo Engineers for a total of \$175,516 for the JBL Effluent Pump Station and Energy Building improvements.

Motion carried: Aye 3, Nay 0, Abstained 0, Absent 0
Director Collings Aye
Director Jacobs Aye
Director Shintaku Aye

- C. Contract Amendment for Coastal Treatment Plant (CTP) Export Sludge Forcemain Temporary Impact Area Restoration Monitoring and Maintenance [Project Committee 15]

ACTION TAKEN

A motion was made by Director Dunbar and seconded by Director Shintaku to approve Amendment 2 to Dudek for a total of \$84,960 for the Export Sludge Temporary Impact Area Restoration Monitoring and Maintenance.

Motion carried: Aye 3, Nay 0, Abstained 1, Absent 0
Director Dunbar Aye
Director Collings Abstain
Director McAvoy Aye
Director Shintaku Aye

- D. Coastal Treatment Plant (CTP) Funding Plan Implementation [Project Committee 15]

Public Speaker: Roger Butow, Clean Water Now (CWN)
Robb Grantham, Santa Margarita Water District

ACTION TAKEN

A motion was made by Director Shintaku and seconded by Director Dunbar to i) approve the amended contract to Hazen for a total not to exceed \$150,000 and ii) approve an additional \$150,000 to the project budget for the CTP Funding Plan Implementation.

Motion carried: Aye 3, Nay 0, Abstained 1, Absent 0
Director Dunbar Aye
Director Collings Abstain
Director McAvoy Aye
Director Shintaku Aye

- E. Contract Award for Effluent Transmission Reaches D and E Main Air Valves Bidding and Engineering Services During Construction [Project Committee 21]

ACTION TAKEN

A motion was made by Director Collings and seconded by Director Freshley approve the contract to Tetra Tech in the amount of \$47,500 for the bidding and ESDC services for the ETM Reaches D and E Air Valve Replacement project.

Motion carried: Aye 2, Nay 0, Abstained 0, Absent 0
Director Collings Aye
Director Freshley Aye

- F. Contract Award for Coastal Treatment Plant (CTP) West Primary and Secondary Scum Skimming System Pre-Procurement [Project Committee 15]

ACTION TAKEN

A motion was made by Director McAvoy and seconded by Director Dunbar to i) approve a contract with Brentwood Polychem, represented by Coombs Hopkins, for a total of \$930,960 for the Coastal Treatment Plant West Primary and Secondary Scum Skimming Systems and. ii) approve a contract contingency of 10% in the amount of \$93,096 to cover delivery and unloading charges.

Motion carried: Aye 3, Nay 0, Abstained 1, Absent 0
Director Dunbar Aye
Director Collings Abstain
Director McAvoy Aye
Director Shintaku Aye

7. GENERAL MANAGER'S REPORT

- A. SOCWA Laboratory Feasibility Study Contract Award

ACTION TAKEN

A motion was made by Director Collings and seconded by Director Shintaku to award the SOCWA Laboratory Feasibility Study contract to the Austin Company for \$83,800 using the allocations in Table 4 of the staff report.

Motion carried: Aye 6, Nay 0, Abstained 0, Absent 1
Director Dunbar Aye
Director Freshley Aye
Director Collings Aye
Director McAvoy Aye
Director Jacobs Aye
Director Shintaku Aye
Director Rebensdorf Absent

- B. RESOLUTION NO. 2024-04: A RESOLUTION OF THE BOARD OF DIRECTORS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY TO SUBMIT THE SALT NUTRIENT MANAGEMENT PLAN (SNMP) TO THE SAN DIEGO REGIONAL WATER CONTROL BOARD (SDRWQCB) AND POST THE SNMP TO THE SOCWA WEBSITE

Public Speaker: Roger Butow, Clean Water Now (CWN)

ACTION TAKEN

A motion was made by Director Collings and seconded by Director Jacobs to approve RESOLUTION NO. 2024-07: A RESOLUTION OF THE BOARD OF DIRECTORS OF THE SOUTH ORANGE COUNTY WASTEWATER AUTHORITY TO SUBMIT THE SALT NUTRIENT MANAGEMENT PLAN (SNMP) TO THE SAN DIEGO REGIONAL WATER CONTROL BOARD (SDRWQCB) AND POST THE SNMP TO THE SOCWA WEBSITE.

Motion carried: Aye 3, Nay 0, Abstained 0, Absent 0
Director Collings Aye
Director Jacobs Aye
Director Shintaku Aye

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

Public Speaker: Roger Butow, Clean Water Now (CWN)

ACTION TAKEN

A motion was made by Director Collings and seconded by Director Dunbar to i) form an Ad Hoc Committee to draft a response to the Orange County Grand Jury Report findings "F3" and "F4," as noted on page 22 of the report, ii) directing the Member Agencies to submit their comments to the Ad Hoc Committee who will draft a letter of a consolidated response to be presented to the SOCWA Board of Directors for review and consideration of providing the consolidated response to the presiding Judge of the Superior Court at its September Board Meeting.

As noted for the record, the Ad Hoc Committee members are Director Matt Collings (MNWD), Director Sandra Jacobs (SMWD), and Director Mike Dunbar (EBSD).

Motion carried: Aye 6, Nay 0, Abstained 0, Absent 1
Director Dunbar Aye
Director Freshley Aye
Director Collings Aye
Director McAvoy Aye
Director Jacobs Aye
Director Shintaku Aye
Director Rebensdorf Absent

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]

Public Speaker: Charles Barfield, Orange County Employee Association (OCEA)

An open discussion ensued on the ongoing meetings and discussions to address SOCWA employees' questions and concerns regarding Moulton's exit from SOCWA.

This was an information item; no actions were taken.

E. General Counsel's Update

- JPA Revision Process
(Standing item)
- PC 10 Exit Agreement

Ms. Adriana Ochoa, Procopio, reported on her attendance at the CASA Conference and Attorneys Meeting. She noted items that the Board should be aware of and that she would continue to monitor as new information develops. An open discussion ensued.

This was an information item; no actions were taken.

F. Acting General Manager's Report

Mr. Jim Burror, Acting General Manager, reported that the safety policy was updated to include the SOCWA Workplace Prevention Plan, and he noted the standard reimbursement log was included in the packet for review.

Ms. Amber Boone, Director of Environmental Compliance, reported that staff is working on the member agency requests for the Regional Treatment Plant records, which are ongoing and will continue to brief the Board as requests are made. Ms. Boone also reported that there was interest in utilizing the wastewater base epidemiology and its practice. The item will go to the Engineering Committee for discussion before bringing to the Board for consideration. An open discussion ensued.

This was an information item; no actions were taken.

G. Upcoming Meetings Schedule:

- August 5, 2024 – Board of Directors Special Meeting – Closed Session
- August 8, 2024 – Board of Directors Special Meeting
- August 15, 2024 – Engineering Committee Meeting
- August 20, 2024 – Finance Committee Meeting
- September 5, 2024 – Board of Directors Regular Meeting

This was an information item; no actions were taken.

The Board of Directors convened to Closed Session at 10:30 a.m.
The Board of Directors reconvened to the Open Session at 10:34 a.m.

8. CLOSED SESSION

A. A Closed Session Conference was held with Legal Counsel for Existing Litigation Pursuant to Government Code § 54956.9(d)(1)) on the matter of Commissioners of Public Works of the City of Charleston (dba Charleston Water System) v. DUDE Products Inc. Case No. 2:24-cv-02935-RMG

B. Report Out of Closed Session – There were no reportable actions.

9. OTHER MATTERS

None.

10. ADJOURNMENT

There being no further business, Director Jacobs adjourned the meeting at 10:35 a.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Special Meeting of the South Orange County Wastewater Authority Board of Directors on August 8, 2024, and approved by the Board of Directors of the South Orange County Wastewater Authority.

Danita Hirsh, Assistant Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

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

Board of Directors

September 5, 2024

DRAFT

The Regular Meeting of the South Orange County Wastewater Authority (SOCWA) Board of Directors Meeting was held in person and via teleconference on September 5, 2024, at 8:30 a.m. at their Administrative Offices located at 34156 Del Obispo Street, Dana Point, California. The following members of the Board of Directors were present:

MIKE DUNBAR	Emerald Bay Service District	Director
KATHRYN FRESHLEY	El Toro Water District	Director
GAVIN CURRAN	City of Laguna Beach	Alternate Director
FRANK URY	Santa Margarita Water District	Director
MATT COLLINGS	Moulton Niguel Water District	Director
SCOTT GOLDMAN	South Coast Water District	Director
DAVE REBENDSOLF	City of San Clemente	Director

Staff Present:

JIM BURROR	Acting General Manager/Director of Operations
AMBER BOONE	Director of Environmental Compliance
MARY CAREY	Finance Controller
RONI GRANT	Associate Engineer
DINA ASH	HR Administrator
JEANETTE COTINOLA	Procurement/Contracts Manager
KONSTANTIN SHILKOV	Senior Accountant
ANNA SUTHERLAND	Accounts Payable
MATT CLARK	IT Administrator

Also Present:

ADRIANA OCHOA	Procopio Law	DON FROELICH	Moulton Niguel Water District
MIKE GASKINS	El Toro Water District	CHARLES BARFIELD	OC Employee Assoc. (OCEA)
ROGER BUTOW	Clean Water Now (CWN)	CHARLES BUSSLINGER	Municipal Water District of OC
SAUNDRA JACOBS	Santa Margarita Water District	JEFF FERRE	Best Best & Krieger, LLP
RICK SHINTAKU	South Coast Water District	TARYN KJOLSING	South Coast Water District
KELSEY DECASAS	Moulton Niguel Water District	MARC SERNA	South Coast Water District
KARI VOZENILEK	Kidman Gagen Law, LLP	ALLISON BURNS	Stradling Law
DIANE RIFKIN	Moulton Niguel Water District	DAVE LARSEN	Moulton Niguel Water District
ANDREW GAGEN	Kidman Gagen Law, LLP	JOE MULLER	South Coast Water District
GARRETT NUZZO	SOCWA Staff	KYLE VINCENT	SOCWA Staff
JOSH PAPAS	SOCWA Staff	DAN GRILLEY	SOCWA Staff

1. CALL TO ORDER

Director Frank Ury called the meeting to order at 8:33 a.m.

2. PLEDGE OF ALLEGIANCE – Director Mike Dunbar

3. ORAL COMMUNICATIONS

None.

4. APPROVAL OF BOARD MEMBER REQUEST FOR REMOTE PARTICIPATION

None.

5. CONSENT CALENDAR

ACTION TAKEN

A motion was made by Director Collings and seconded by Director Dunbar to approve the Consent Calendar agenda items 5A and 5F as submitted.

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

(5A and 5I)

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

Approved Action: The Board approved (i) receiving and filing the June 2024 Financial Reports, (ii) ratified the May 2024 disbursement for the period from May 1, 2024, through May 31, 2024, totaling \$1,671,478, and (iii) ratified 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

Approved Action: Information Item.

- C. July 2024 Operations Report

Approved Action: Information Item; received and filed.

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

Approved Action: The Board approved 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)

Approved Action: Information Item; received and filed.

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

Approved Action: Information Item.

6. ENGINEERING MATTERS

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

ACTION TAKEN

A motion was made by Director Dunbar and seconded by Director Goldman to 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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Motion carried: Aye 3, Nay 0, Abstained 1, Absent 0
Director Dunbar Aye
Director Curran Aye
Director Collings Abstain
Director Goldman Aye

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

ACTION TAKEN

A motion was made by Director Goldman and seconded by Director Dunbar to 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.

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

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

ACTION TAKEN

A motion was made by Director Ury and seconded by Director Goldman to 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.

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

D. Contract Award for J.B. Latham Treatment Plant (JBL) MCC-M, Switchgear Circuit Breaker,
And Portable Generator Connection Pre-Procurement [Project Committee 12]

ACTION TAKEN

A motion was made by Director Ury and seconded by Director Goldman to 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.

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

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7. GENERAL MANAGER'S REPORT

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

ACTION TAKEN

A motion was made by Director Dunbar and seconded by Director Ury to 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 appropriations in the SOCWA FY 2025-26 budget and payment due July 2025.

Motion carried:	Aye 6, Nay 0, Abstained 0, Absent 0
Director Dunbar	Aye
Director Freshley	Aye
Director Collings	Aye
Director Curran	Aye
Director Ury	Aye
Director Goldman	Aye

B. Multi-Jurisdictional Hazard Mitigation Plan (MJHMP)

ACTION TAKEN

A motion was made by Director Collings and seconded by Director Freshley to authorize the completion of the Multi-Jurisdictional Hazard Mitigation Plan (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.

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

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

Ms. Adriana Ochoa, General Counsel (Procopio), and the Members of the Ad Hoc Committee updated the Board on their collaboration to draft a letter responding to the OC Grand Jury Report—Emerging Opportunities in South County Water/Waster Systems. An open discussion ensued.

ACTION TAKEN

A motion was made by Director Collings and seconded by Director Dunbar authorizing Ms. Adriana Ochoa, General Counsel, to draft and finalize a letter of response to the Orange County Grand Jury Report – Emerging Opportunities in South County Water/Wastewater Systems.

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///

Motion carried: Aye 7, Nay 0, Abstained 0, Absent 0
Director Dunbar Aye
Director Freshley Aye
Director Collings Aye
Director McAvoy Aye
Director Jacobs Aye
Director Shintaku Aye
Director Rebensdorf Aye

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]

Public Speaker: Charles Barfield, Orange County Employee Association (OCEA)
Dan Grilley – SOCWA Staff

An open discussion ensued on the ongoing meetings and discussions to address SOCWA employees' questions and concerns regarding Moulton's exit from SOCWA.

This was an information item; no actions were taken.

E. General Counsel's Update

- JPA Revision Process
(Standing item)
- PC 10 Exit Agreement

Ms. Adriana Ochoa, Procopio, reported on her attendance at the CASA Conference and Attorneys Meeting. She noted items that the Board should be aware of and that she would continue to monitor as new information develops. An open discussion ensued.

This was an information item; no actions were taken.

F. Acting General Manager's Report

Mr. Jim Burror, Acting General Manager, reported that SOCWA staff was finalizing the asset register list to be submitted to Ms. Ochoa today.

This was an information item; no actions were taken.

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

This was an information item; no actions were taken.

The Board of Directors convened to Closed Session at 10:05 a.m.
The Board of Directors reconvened for the Open Session at 12:34 p.m.

8. CLOSED SESSION

- A. A closed-session conference was held with Legal Counsel pursuant to Government Code § 54957(b) to discuss the Public Employee Appointment of Acting General Manager.
- B. A closed-session conference was held with Legal Counsel pursuant to Government Code § 54957(b) to discuss the Public Employee Performance Evaluation of the Acting General Manager/Director of Operations.
- C. Report Out of Closed Session – There were no reportable actions.

9. OTHER MATTERS

None.

10. ADJOURNMENT

There being no further business, Director Jacobs adjourned the meeting at 12:35 p.m.

I HEREBY CERTIFY that the foregoing Minutes are a true and accurate copy of the Minutes of the Regular Meeting of the South Orange County Wastewater Authority Board of Directors on September 5, 2024, and approved by the Board of Directors of the South Orange County Wastewater Authority.

Danita Hirsh, Assistant Secretary
SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

Agenda Item

5.B.

Board of Directors Meeting

Meeting Date: October 3, 2024

TO: Board of Directors
FROM: Jim Burror, Acting General Manager/Director of Operations
SUBJECT: August 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 August, 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)	2.81	6.95	7.41	1.01	18.18
Effluent (mgd)	2.24	1.24	7.41	2.45	13.35
Peak Flow (mgd)	10.40	17.72	9.56	9.58	47.26
Influent BOD (mg/l)	223	302	290	419	
Influent TSS (mg/l)	272	405	404	417	
Effluent BOD (mg/l)	4.7	4.3	8.7	6.7	
Effluent TSS (mg/l)	6.2	6.4	10.4	8.5	
Effluent Turbidity (NTU)	2.3	2.8	3.0	2.1	

(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)	0.97	5.71		6.68
Days of Operation (days)	31	31		
Total Flow (million gallons)	30.1	177.0		207.1
Plant Irrigation (million gallons)	0.05	0.10	0.12	
AWT Time Online (%)	100.0			

Wastewater Unit Definitions

mgd = million gallons per day

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

NTU = Nephelometric Turbidity Units

SOCWA Operational Report August, 2024 (cont'd)

Biosolids Management

Biosolids Management Site	CTP	RTP	JBL	Totals
Synagro Compost (tons)		800.3	0.0	800.3
Nursery Products (tons)		248.1	661.1	909.2
Prima Deshecha (tons)		23.2	6.5	29.7
Other: (tons)		0.0	0.0	0.0
Total Processed (tons)		1,071.6	667.6	1,739.2

Summary of Maintenance Activities

Task Type	CTP	RTP	JBL	Totals
Preventative Maintenance	201	217	221	639
Corrective Maintenance	11	43	24	78

Site Visitors

Visitor Types	CTP	RTP	JBL	Totals
Regulatory	0	0	0	0
Member Agency	0	19	1	20
Residents	0	0	0	0
Others	8	14	18	40
Tours #/Visitors	1	0	0	1

Grit Disposal Management

Grit & Screenings	CTP	RTP	JBL	Totals
Simi Valley Landfill (tons)	6.0	0.0	6.1	12.1

Chemical and Energy Utilization

Chemical/Utility	CTP	RTP	JBL	Totals
Ferric Chloride (tons)	0.0	17.8	8.5	26.2
Utility Power Purchase (kWh)	196,384	42,101	256,061	494,546
Cogen Power (kWh)		608,687	589,632	1,198,319
Natural Gas (Dth)	NA	NA	NA	0
Digester Gas to Engine (scfm)		9,366,091	5,525,748	14,891,839
Digester Gas to Boiler (scfm)		0		0
Digester Gas to Flares (scfm)		923	216,091	217,014
Digester Gas Power Savings		\$179,219		

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 August, 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	1.659	56.74%				1.66
EBSD	0.081	2.76%				0.08
SCWD	1.184	40.49%				2.60
MNWD	0.000	0.00%	6.95	1.400	16.62%	8.35
CSJC				2.250	26.71%	2.25
SMWD				3.354	39.82%	3.35
Total	2.924	100.00%	6.95	8.422	100.00%	18.30

Total Agency Outfall Flows by Outfall System-Billing Flows

Agency	SJCOO (mgd)	SJCOO (%)	SJCOO Meter (mgd)	ACOO (mgd)	ACOO (%)	Total (mgd)	Notes
CLB				1.66	28.63%	1.66	
EBSD				0.08	1.39%	0.08	
SCWD	1.57	13.86%		0.37	6.40%	1.94	Includes Desalters
MNWD	1.48	13.01%		1.24	21.39%	2.72	
ETWD				0.75	12.95%	0.75	Direct Outfall Only
CSJC	2.67	23.49%				2.67	Incudes Desalter
SMWD	3.36	29.61%				3.36	Includes Chiquita
CSC	2.27	20.04%				2.27	Direct Outfall Only
IRWD				1.69	29.23%	1.69	Direct Outfall Only
Total	11.35	100.00%	3.32	5.80	100.00%	17.14	

SOCWA Operational Report August, 2024 (cont'd)

FY Flow/Solids Summary-Billing

Project Committee No. 2 Liquids (JBL)

Agency	Own (mgd)	Own (%)	Budget (mgd)	Budget (%)	Month (mgd)(1)	Month (%)	FY Avg to Date (mgd)	FY Avg to Date (%)
CSJC	4.00	30.77%	2.108	27.50%	2.250	26.71%	2.20	25.60%
MNWD	3.00	23.08%	1.400	18.26%	1.400	16.62%	1.40	16.31%
SCWD	3.75	28.85%	1.598	20.85%	1.418	16.84%	1.60	18.70%
SMWD	2.25	17.31%	2.559	33.39%	3.354	39.82%	3.38	39.38%
Total	13.00	100.00%	7.665	100.00%	8.422	100.00%	8.58	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%	6,513	24.79%	6,476	27.26%
MNWD	8,340	21.62%	5,183	17.12%	5,093	19.39%	4,841	20.38%
SCWD	7,715	20.00%	5,693	18.80%	2,464	9.38%	4,268	17.97%
SMWD	10,946	28.38%	13,200	43.60%	12,201	46.44%	8,170	34.39%
Total	38,573	100.00%	30,278	100.00%	26,271	100.00%	23,755	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%	2.274	20.04%	2.330	20.26%
CSJC	11.08%	8.860	11.08%	2.665	23.49%	2.525	21.95%
MNWD(3)	15.51%	12.410	15.51%	1.476	13.01%	1.498	13.02%
SCWD	12.46%	9.970	12.46%	1.572	13.86%	1.762	15.32%
SMWD	44.32%	35.460	44.33%	3.360	29.61%	3.388	29.46%
Total	100.00%	80.000	100.00%	11.348	100.00%	11.502	100.00%

(1) Influent billing meter summary:

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

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

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

SOCWA Operational Report August, 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%	1.659	56.74%	1.705	57.29%
EBSD	0.20	2.99%	0.060	2.25%	0.081	2.76%	0.085	2.85%
SCWD	2.00	29.85%	1.180	44.19%	1.184	40.49%	1.186	39.86%
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%	2.924	100.00%	2.976	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	0.0133	0.0133	0.1882%	0.0154	0.2201%
EBSD	0.00060	0.0083%	0.0000	0.0006	0.0006	0.0092%	0.0008	0.0110%
SCWD	0.01210	0.1668%	0.0000	0.0095	0.0095	0.1343%	0.0107	0.1527%
ETWD	0.01810	0.2495%	0.0000	0.0132	0.0132	0.1871%	0.0131	0.1881%
MNWD	7.20960	99.3715%	6.9494	0.0538	7.0032	99.4812%	6.9369	99.4282%
Total	7.25520	100.0000%	6.9494	0.0904	7.0397	100.0000%	6.9768	100.0000%

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

SOCWA Operational Report August, 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%	161,482	14.67%	181,381	16.01%
EBSD	295	0.59%	194	0.56%	7,868	0.71%	9,050	0.80%
SCWD	4,480	8.96%	3,691	10.75%	115,244	10.47%	125,918	11.11%
ETWD	10,200	20.41%	5,207	15.16%	160,490	14.58%	155,621	13.74%
MNWD	29,395	58.82%	20,747	60.40%	656,042	59.58%	660,924	58.34%
Total	49,975	100.00%	34,348	100.00%	1,101,126	100.00%	1,132,893	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%	1.659	28.63%	1.705	23.88%
EBSD	0.78%	0.390	0.78%	0.081	1.39%	0.085	1.19%
ETWD	16.30%	8.151	16.30%	0.750	12.95%	0.923	12.93%
IRWD	15.76%	7.880	15.76%	1.694	29.23%	2.655	37.18%
MNWD	43.85%	21.924	43.85%	1.240	21.39%	1.257	17.60%
SCWD	12.31%	6.155	12.31%	0.371	6.40%	0.516	7.23%
Total	100.00%	50.000	100.00%	5.795	100.00%	7.141	100.00%

SOCWA Operational Report Aug 2024 (cont'd)

Select Critical Equipment Repairs

JBL - PC2

Replaced corroded control panel.
Troubleshooted the emergency pumps that failed to start due a monthly test.
Overhauled the corroded effluent sample system.
Repaired failed walkway near Sedimentation Basin #8,
Mapped the underground piping near the Digesters to find a water leak.
Troubleshooted the failing compressor on the gas skid.
Troubleshooted the failing TWAS Feed Valve on Digester #1.
Repaired failed flush valve on BarScreen #1.
Troubleshooted the failed DAF Collector #1 control panel.
Replaced several failed hour meters.
Replaced several failed D.O. probes.
Replaced failed Plant #2 Primary Sludge Pumps VFD.

CTP - PC15

Troubleshooted the failed Plant Compressor system.
Repaired failing West Screen bearing.
Troubleshooted failing Primary West 1A Sludge Valve.
Cleared debris blocking the plant storm drain and replaced corroded manhole cover.
Replaced failed Bleach Pump #5.
Troubleshooted failing North TWAS Pump.
Troubleshooted a failing nitrate probe on the East side of the Plant.

RTP - PC17

Attended a number of meetings to plan MNWD operating RTP.
Replaced failed Plant Compressor.
Completed replacement of failed conduit run for SET pump system.
Repaired corroded and failed motor on Primary Gallery Roof Fan #1.
Troubleshooted failing grit pump check valve.
Troubleshooted failed Bleach Pump #1.
Overhauled failing Scum Pump #3.
Overhauled failing Primary Sludge Pump #1.
Overhauled failed WAS Pump #1.
Troubleshooted no power and communications to Polymer Mixing Tank #1, Centrifuge #3, and Polymer Control Panel.
Troubleshooted failed Primary Gallery Tank Drainage Pump #1.
Replaced several failed D.O. Probes.
Calibrated failing pH probe on Scrubber #1.
Replaced failed pressure gauges on SET Pump #3.

SOCWA Operational Report Aug 2024 (cont'd)

Select Critical Equipment Repairs (cont'd)

RTP - PC17 (cont'd)

Troubleshoot several failed nitrate probes.

Troubleshoot failing Centrifuge #2 Dynablend Panel.

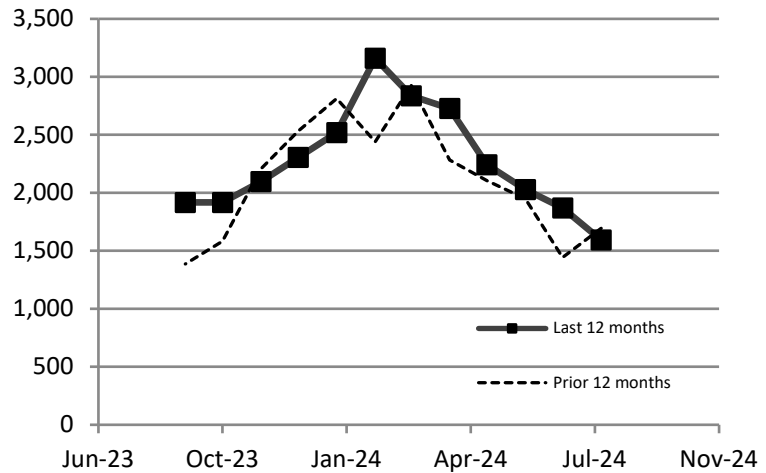
SOCWA Ocean Outfall Discharges by Agency

SOCWA Operational Report August, 2024 (cont'd)

Agency	SJCOO (mgd)	SJCOO (%)	ACOO (mgd)	ACOO (%)	Total (mgd)
CLB			1.66	28.63%	1.66
EBSD			0.08	1.39%	0.08
SCWD	1.57	13.86%	0.37	6.40%	1.94
MNWD	1.48	13.01%	1.24	21.39%	2.72
ETWD			0.75	12.95%	0.75
CSJC					2.67
SMWD					3.36
CSC					2.27
IRWD			1.69	29.23%	1.69
Total			11.35	100.00%	5.80
	or Acre-Feet per year equivalent				19,200

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

Aug-24	1,593
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
Total	27,212



Beach / Ocean Monitoring Report

ALISO CREEK OCEAN OUTFALL MONITORING REPORT

July 2024

DATE	IRWD LOS ALISOS WRP				EL TORO WRP				SOCWA REGIONAL PLANT				SOCWA COASTAL PLANT				IRWD IDP	IRWD SGU	SCWD ACWRF	ACOO	Rain
	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	FLOW MGD	FLOW MGD	FLOW MGD	Fall 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	Fecal	Entero-	Material of Sewage				Water	H2O	Water	Water	Birds
			Coliform	Coliform	coccus	Origin		Oil &	Odor					
			CFU/100ml	CFU/100ml	CFU/100ml	Onshore	Offshore	Grease						
			SM9222B	SM9222D	EPA 1600					Color	Temp(F)	Condition	Outlet	
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	Fecal	Entero-	Material of Sewage				Water	H2O	Water	Water	Birds
			Coliform	Coliform	coccus	Origin		Oil &	Odor					
			CFU/100ml	CFU/100ml	CFU/100ml	Onshore	Offshore	Grease						
			SM9222B	SM9222D	EPA 1600					Color	Temp(F)	Condition	Outlet	
S3	07/10/24	08:14	20	20	<2	None	None	None	None	Green	71	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		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	Fecal Coliform CFU/100ml	Entero- coccus CFU/100ml	Material of Sewage Origin		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			SM9222B	SM9222D	EPA 1600	Onshore	Offshore							
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	Fecal Coliform CFU/100ml	Entero- coccus CFU/100ml	Material of Sewage Origin		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			SM9222B	SM9222D	EPA 1600	Onshore	Offshore							
S3	07/25/24	08:25	<10	<10	<2	None	None	None	None	Green	66	Clear	Flowing	
S4	07/25/24	10:40	10	10	<2	None	None	None	None	Green		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		
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	Fecal	Entero-	Material of Sewage		Oil & Grease	Odor	Water Color	H2O Temp(F)	Water Condition	Water Outlet	Birds
			Coliform	Coliform	coccus	Origin								
			CFU/100ml	CFU/100ml	CFU/100ml	Onshore	Offshore							
			SM9222B	SM9222D	EPA 1600									
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 Frequency: Monthly

Report Due: September 1, 2024

Sample Source: Receiving water, nearshore and offshore

Sampling Frequency: Monthly

Exact Sample Points: As specified in permit

Type of Sample: Grab

Samples Collected By: Seaventures/SOCWA staff

Samples Analyzed By: SOCWA Lab

Comments:

High Tide 12:06

Sta No.	Sample Depth	Sample Date	Total Coliform CFU/100ml SM9222B	Fecal Coliform CFU/100ml SM9222D	Enterococcus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris	0 - None 1 - Mild 2 - Moderate 3 - Severe
A-1	Surface	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	

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

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

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

(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

DATE	J.B. LATHAM FACILITY				SAN CLEMENTE WRP				SMWD CHIQUITA WRP				3-A PLANT				CSJC Desalter	SCWD Desalter	SJCOO	Rain Fall
	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	TSS mg/L	cBOD mg/L	SS ml/L	FLOW MGD	FLOW MGD	FLOW MGD	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	Fecal Coliform CFU/100ml	Entero- coccus CFU/100ml	Material of Sewage Origin		Oil & Grease		Water Color		H2O Temp(F)	Water Condition	Water Outlet	Birds
			SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Condition	Outlet	
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	Fecal Coliform CFU/100ml	Entero-coccus CFU/100ml	Material of Sewage Origin		Oil & Grease		Water Color		H2O Temp(F)	Water Condition	Water Outlet	Birds
			SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color					
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:

			Total	Fecal	Entero-									
			Coliform	Coliform	coccus	Material of Sewage								
			CFU/100ml	CFU/100ml	CFU/100ml	Origin		Oil &		Water	H2O	Water	Water	
STATION														
#	DATE	TIME	SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	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	Fecal Coliform CFU/100ml	Entero- coccus CFU/100ml	Material of Sewage Origin		Oil & Grease		Water Color		H2O Temp(F)	Water Condition	Water Outlet	Birds
			SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Condition	Outlet	
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	Fecal Coliform CFU/100ml	Entero- coccus CFU/100ml	Material of Sewage Origin		Oil & Grease		Water Color		H2O Temp(F)	Water Condition	Water Outlet	Birds
			SM9222B	SM9222D	EPA 1600	Onshore	Offshore	Grease	Odor	Color	Temp(F)	Condition	Condition	Outlet	
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 Outfall

Report For: July 2024

Report Frequency: Monthly

Report Due: September 1, 2024

Sample Source: Receiving water, nearshore and offshore

Sampling Frequency: Monthly

Exact Sample Points: As specified in permit

Type of Sample: Grab

Samples Collected By: Seaventures/SOCWA staff

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	Enterococcus CFU/100ml EPA 1600	Sample Time	Oil & Grease	Sewage Debris	0 - None 1 - Mild 2 - Moderate 3 - Severe
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	

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

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

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

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

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

5.B.

Legal Counsel Review: No

Meeting Date: October 3, 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 users (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 on 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. The final discharge is to occur on 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 was 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 related to confined space requirements, workplace violence prevention, and CPR certification as scheduled.

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

<u>MA IUs</u>	<u>Events</u>	<u>Permits</u>	<u>NIWD</u>	<u>BMPs</u>	<u>FSEs</u>	<u>OSEs</u>	<u>DSEs</u>	<u>Closed</u>	<u>Enforcement</u>	<u>Total IUs</u>
CLB (S)	0	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.C.

Board of Directors Meeting

Meeting Date: October 3, 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 (September)

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.

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.

Regional Treatment Plant Flare System Upgrades

Installation of flare ignition and flame detection control system.

The first phase of the flare system upgrades have been completed.

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 2024/2025				FY 2025/2026			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
PC 2 - J.B. Latham Treatment Plant											
3220/3231/3287	Facility Improvements B		Construction complete								
3222/3234	Centrate Piping Reconstruction	\$ 309,148	Construction complete								
32231C	Process Water Repiping	\$ 50,000	Design underway	D	D	B&A	C				
3215/3252	MCC M and Plant 1 Generator Replacement	\$ 2,623,000	Pre-procurement and design underway	D	D	B&A	C	C	C	C	C
3285	Main Plant Drain Line Reconstruction	\$ 165,736	Design underway	D	D	B&A	C	C	C		
32224L	Chlorine Contact Basin Isolation Gates and Structural Rehab	\$ 165,736	Design underway	D	D	B&A	C	C			
32241L	Effluent Pump Station Storage and Staging Area	\$ 250,000	Planning underway	P	P	D	D				
32226L	Effluent Pump Station Upgrades	\$ 950,000	Design contract awarded	D	D	D	B&A	C	C	C	C
32243L	Plant 2 Headworks Rehabilitation	\$ 200,000	Design underway	D	D	D	B&A	C	C	C	C
32261L	Plant 1 and 2 Grit Assessment	\$ 50,000	FY 25/26					CA			
32244L	Plant 2 Primary Clarifier Condition Assessment	\$ 50,000	Complete	CA							
32233S	Scum Line Replacement	\$ 150,000	Construction contract awarded	B&A	C	C	C				
32262L	DAF Polymer System Upgrade	\$ 741,000	FY 25/26					P	P	D	D
3216/32225C /32225S	Energy Building Upgrades	\$ 1,955,000	Design contract awarded	D	D	B&A	C	C			
32232S	Buried Digester Gas and Flare Piping Improvements	\$ 125,000	Preparing RFP	P	D	D	D	B&A	C	C	C
32234S	Heat Exchanger 4 Pipe Replacement	\$ 75,000	Preparing RFP	P	D	D	D	B&A	C	C	C
32224S	MCC 2 and CF Reconstruction	\$ 3,000,000	FY 25/26					P	P	D	D
32231S	Gas Flare Replacement	\$ 2,000,000	FY 25/26					P	P	D	D
32261S	Odor Control Scrubber No. 2 Replacement	\$ 2,000,000	FY 25/26					P	P	D	D
32262S/32264S	Dewatering System Replacement	\$ 1,056,490	FY 25/26					P	P	D	D
32263S	Buried Digester Piping Reconstruction	\$ 250,000	FY 25/26					P			
32243C	SCADA Server Replacement	\$ 200,000	Bidding underway	B&A	C	C	C				
PC 5 - San Juan Creek Ocean Outfall											
36241O	SJCOO Outfall Ballast Repairs	\$ 250,000	Construction complete								
PC 15 - Coastal Treatment Plant											
3541A	Export Sludge Environmental Mitigation	\$ 1,392,100	Mitigation work/permitting ongoing	ENV	ENV	ENV	ENV	ENV			

SOCWA CIP Workplan

Project Number	Project Name	Project Budget	Status	FY 2024/2025				FY 2025/2026			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
352601	Grit Baffles and Diffusers	\$ 200,000	FY 25/26					D	D	B&A	C
352602/352603	East Primary Tank Sludge Piping, Troughs and Scum Skimmers	\$ 275,000	FY 25/26					P	D	D	D
3543	Export Sludge Pipeline Replacement at RTP	\$ 400,000	FY 25/26					P	D	D	D
35246L/35239L	West Primary and Secondary Sludge Skimmers and Launderers/Weirs	\$ 1,100,000	Prepurchase contract awarded	B&A	B&A	C	C	C	C		
35247L	Aeration Blower System Upgrades	\$ 75,000	Design proposal under review	D	D	D	B&A	C	C	C	C
35246L/35239L	West Primary and Secondary Sludge Skimmers and Launderers/Weirs	\$ 1,100,000	Prepurchase contract awarded	B&A	B&A	C	C	C	C		
35229L/35235L	Odor Control Scrubber/Foul Air System Reconstruction	\$ 1,650,000	RFP issued	D	D	D	B&A	C	C	C	C
35220L	Drainage Pump Station	\$ 4,200,000	Design contract awarded	D	D	D	B&A	C	C	C	C
3525	Personnel Building Reconstruction	\$ 471,586	Phase 1 bidding underway	B&A	B&A	C	C	C	C	C	C
35233L/35236L	Scum Pump Station and Wet well	\$ 300,000	FY 25/26					P	D	D	D
35234L	RAS/WAS Pump Station Repair	\$ 100,000	FY 25/26					P	P	D	D
35237L	Electrical Manhole/Cable Project	\$ 85,000	FY 25/26					P	P	D	D
352604	EQ Tank Liner Rehabilitation	\$ 300,000	FY 25/26		D	B&A	C	C	C		
35248L	Access Road Repaving	\$ 950,000	Preparing bidding documents		D	D	B&A	C	C	C	C
35221L	Auxiliary Blower Building Roof	\$ 100,000	Bidding underway	B&A	C	C					
35228L	Aeration Diffuser Replacement	\$ 1,250,000	Construction underway	C	C						
35245L	Grating Replacement on Aeration/Secondary Deck	\$ 50,000	Construction contract awarded	B&A	C	C	C				
35249L	SCADA Server Replacement	\$ 200,000	Bidding underway	B&A	C	C	C				
PC 17 - Regional Treatment Plant											
3742	Aeration System Upgrades	\$ 2,500,000			D	D	B&A	C	C	C	C
3722CL	Aeration Basin, Gate and Blower Upgrades	\$ 710,000	FY 25/26					P	D	D	D
3722BL	Mixed Liquor Channel Design	\$ 284,154	FY 25/26					P	D	D	D
3776	Effluent Pond Gate Replacement	\$ 499,772	FY 25/26					P	D	D	D
3756	Secondary Clarifier Safety Repair	\$ 165,249	FY 25/26					P	D	C	C
37233L	Secondary Scum Pump Station Reconstruction	\$ 671,364	FY 25/26					P	D	C	C
37234L	RAS System Upgrades	\$ 58,035	FY 25/26					P	D	D	D

SOCWA CIP Workplan

Project Number	Project Name	Project Budget	Status	FY 2024/2025				FY 2025/2026			
				Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
3722AL/37236S /3779/37244C	MCC Replacement/Power System Improvements	\$ 2,337,197	Design contract awarded	D	D	D	B&A	C	C	C	C
372608	Odor Control Scrubber No. 1 Replacement	\$ 5,877,879	FY 25/26					P	P	D	D
372609	Odor Control Scrubber No. 2 Replacement	\$ 2,927,673	FY 25/26					P	P	D	D
37241L	Grit/Primary Grating/Gate Replacement	\$ 150,000	Design underway	D	D	D	B&A	C	C		
37242L	Aeration Influent/Effluent Gate Replacement	\$ 100,000	Design underway	D	D	D	B&A	C	C		
37229C	Laboratory Reconstruction Assessment	\$ 176,500	Assessment contract awarded	P	P	P	P				
372610	Laboratory Reconstruction Construction	\$ 1,042,416	FY 25/26					D	D	D	B&A
37203C	Administration Building Repair	\$ 60,000		D	D	B&A	C	C	C		
3790	Solids Area Upgrade Design	\$ 273,323	FY 25/26			D	D	D	B&A	C	C
37245S	Digester Gas System Improvements	\$ 200,000	Flare system complete	P	P	D	D	D	B&A	C	C
37246S	Digester 1 Piping Replacement	\$ 250,000	Condition Assessment complete, waiting for finalized report	CA	D	D	D	B&A	C	C	C
37243C	SCADA Server Replacement	\$ 200,000	Bidding underway	B&A	C	C	C				
PC 21 - Effluent Transmission Main									C		
3105/3106/ 3107/3108	Air Valve Replacement	\$ 911,424	Design underway	D	ENV	ENV	B&A	C	C	C	C
3101/31221B	Trail Bridge Crossing	\$ 1,947,284	Planning/design underway	P	P	P	P	ENV	ENV	ENV	ENV
PC 24 - Aliso Creek Ocean Outfall											
34241O	ACOO Outfall Ballast Repairs	\$ 280,000	Construction complete								
34222O	Golf Course Road	\$ 45,000		D	B&A	C	C	C	C		

P	Planning
CA	Condition Assessment
ENV	Environmental/Permitting

Agenda Item

5.D.

Board of Directors Meeting

Meeting Date: October 3, 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 Committee 15 and 17]

Overview

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

Project Updates

CTP Diffusers Replacement

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

RTP Flare System Upgrades

The first phase of the flare system upgrades have been completed.

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

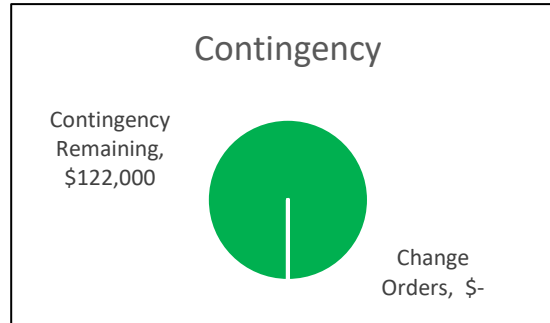
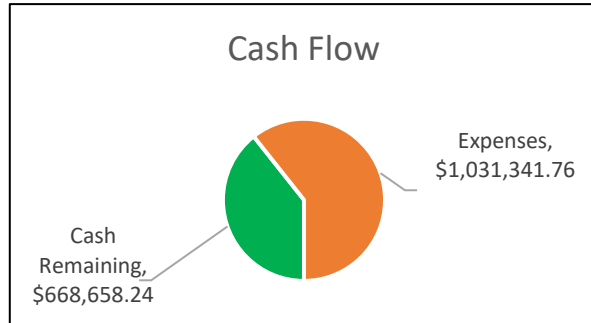
Recommended Action: Information Item.

Project Financial Status

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

Data Last Updated

September 5, 2024



Cash Flow

Collected	\$ 1,700,000.00
Expenses	\$ 1,031,341.76

Project Completion

Schedule	70%
Budget	75%

Construction Contracts

Company	PO No.	Original	Change Orders	Amendments	Total	Costs to Date
Filanc	19640	\$ 1,022,250.00			\$ 1,022,250.00	\$ 705,684.58
EDI	16620	\$ 250,490.00			\$ 250,490.00	\$ 250,490.00
Hazen	17256/19641	\$ 93,578.00			\$ 93,578.00	\$ 35,395.00
SOCWA Staff Time	35228L					\$ 39,772.18
		\$ 1,366,318.00	\$ -	\$ -	\$ 1,366,318.00	\$ 1,031,341.76

**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: October 3, 2024

TO: Board of Directors

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

STAFF CONTACT: Roni Grant, Associate Engineer

SUBJECT: On-Call Project Management Services [Project Committees 2, 5, 15, 17, 21 and 24]

Overview

SOCWA solicited proposals from qualified firms to provide project management services on an on-call basis to support the ongoing capital improvement projects (CIP). The work will be performed on an on-call basis under individual Task Orders and at the discretion of SOCWA. For each Task Order proposal requested by SOCWA, the specific scope of services and fee will be negotiated prior to issuing task orders under the Professional Services Agreement.

Generally, the consultants will be performing project management on a variety of wastewater conveyance and treatment projects, including rehabilitation, replacement, and decommissioning projects. SOCWA has estimated the level of effort at 3 to 4 full-time equivalents (FTE) of labor needed for the next two fiscal years for the estimated \$10.3 M in FY24-25 and \$16.3M in FY25-26. The List of potential projects to be managed under this contract includes, but is not limited to:

JBL

- Chlorine Contact Basin Isolation Gates and Structural Rehab
- Process Water Re-Piping
- Energy Building Upgrades
- MCC M and Plant 1 Standby Generator Replacement
- Effluent Pump Station Upgrades
- Scum Line Replacement
- Digester Gas and Flare Piping Improvements
- Main Plant Drain Line Reconstruction
- Effluent Pump Station Storage and Staging Area
- Plants 1 and 2 Grit System Assessment
- DAF Polymer System Upgrades
- Heat Exchanger No. 4 Pipe Replacement

CTP

- West Primary and Secondary Scum Skimming System Replacement
- Aeration Blower System Upgrades
- Odor Control Scrubber/Foul Air System Reconstruction
- Drainage Pump Station Rehabilitation

- Access Road Repaving
- Auxiliary Blower Building Roof Replacement
- Grating Replacement on Aeration/Secondary Deck

RTP

- Aeration System Upgrades
- MCCs A, C, G and H Replacement
- Odor Control Scrubber/Foul Air System Reconstruction
- Grit and Primary Grating and Gate Replacement
- Aeration Influent/Effluent Gate Replacement
- Administration Building Repair
- Solids Area upgrade
- Digester Gas System Improvements
- Digester 1 Piping Replacement
- Dewatering Room Floor Sealing and Lighting
- Odor Scrubber Replacement

ETM Reach B/C/D

- Air Valve Replacement
- Trail Bridge Crossing Improvements

ETM Reach E

- Air Valve Replacement

ACOO

- Golf Course Access Road

Scope of Services Summary

Work will be performed by Project on an individual Task Order basis. At the start of each new CIP Project, SOCWA will request a proposal from each company that identifies the following:

- Project staff
- Experience with the work related to the Project
- Approach to the Project
- Other staffing resources proposed for the Project
- Schedule
- Level of effort/fee

Staff will review these proposals to determine the best suited proposal for the Project. SOCWA will then issue a Task Order under an umbrella contract for the Project.

Proposal Review

SOCWA solicited proposals through PlanetBids on 7/29/2024. Three proposals were received from Anser Advisory, Project Partners, and Z&K Consultants.

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

Table 1 – Summary of Proposals

Firm	Anser Advisory	Project Partners	Z&K
Principal in Charge	Jonathan Smith	Kimo Look	Zack Faqih
SOCWA Staff Rating (80 max)	70	77	75

Staff recommends Project Partners and Z&K Consultants due to the following:

- The firms have staff with the most relevant project experience.
- The firms have relevant project experience providing on-call support to wastewater agencies.
- The firms have the most realistic project understanding and approach.
- The project teams and managers have recently completed similar work.
- Two firms would allow SOCWA to have broader access to on-call staff for the diverse projects to be managed.
- Both Project Partners and Z&K Consultants received positive feedback from past and current clients.

Budget

The On-Call Project Management Services will be billed to the corresponding CIP projects as outlined in the 24-25 and 25-26 workplan.

Prior Related Project Committee or Board Action (s)

This item was reviewed and discussed by the Engineering Committee on September 12, 2024. The Engineering Committee agreed with staff's recommendation.

Recommended Action: The Engineering Committee recommends that the Board of Directors i) approve a two-year contract with Project Partners not to exceed \$200,000 in a fiscal year (total \$400,000) for the On-Call Project Management Services., and ii) approve a two-year contract with Z&K Consultants not to exceed \$200,000 per year (total \$400,000) for the On-Call Project Management Services.

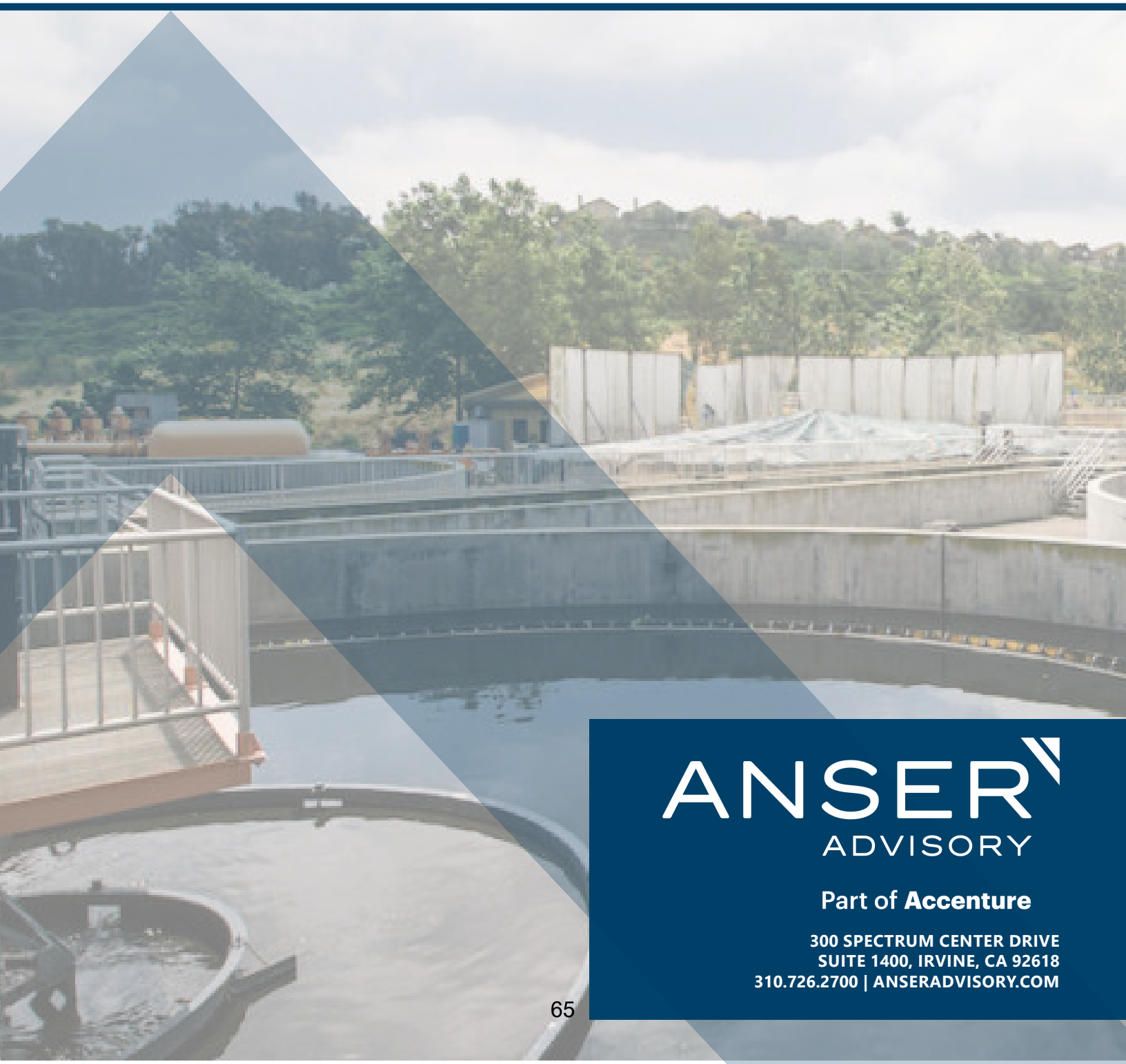


SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

REQUEST FOR PROPOSALS

ON-CALL PROJECT MANAGEMENT SERVICES

AUGUST 22, 2024



ANSER
ADVISORY

Part of **Accenture**

300 SPECTRUM CENTER DRIVE
SUITE 1400, IRVINE, CA 92618
310.726.2700 | ANSERADVISORY.COM

August 22, 2024

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



RE: Request for Proposal for On-Call Project Management Services for South Orange County Wastewater Authority

Dear Ms. Jeanette Cotinola and Selection Committee,

We at Anser Advisory Management, LLC dba Anser Advisory, part of Accenture (Anser) appreciate this opportunity to submit our enclosed statement of qualifications to provide Project Management Services on an on-call basis to support capital improvement program (CIP) projects for the South Orange County Wastewater Authority (SOCWA or the Authority).

As demands on public works infrastructure continue to rise, there is a growing need for capital improvement and ongoing maintenance projects to meet future requirements. To address these challenges, the Authority is seeking to collaborate with project managers on an as-needed basis to support these anticipated public works capital projects. We recognize that SOCWA's Engineering Department is preparing for projects involving domestic water, wastewater, recycled water, and the Joint Regional Water Supply System, which require specialized expertise to facilitate and verify the quality and reliability of both new and upgraded infrastructure.

With a mission to deliver high-quality potable water, recycled water, and sewer services, the Authority is committed to meeting the evolving needs of the community. As part of our company values, we also seek to support and service the areas in which we work and live, contributing to improved infrastructure and the longevity of communities. As is highlighted in the following statement of qualifications, our firm and proposed team members are perfectly aligned with the Authority's needs, and are committed to serving as your most valued partner and advocate throughout your important work ahead. South Orange County Wastewater Authority's mission is to provide communities with high-quality potable water, recycled water, and sewer services in the southern part of Orange County. The following statement of qualifications showcases the experience, expertise, and qualifications that make Anser the right partner to help achieve your mission and support your needs over the next few years on these vital projects. The Anser team will bring to these projects the following key characteristics for success:

Experience, Commitment, and Responsiveness.

Experience: Our team of on-call specialists brings extensive experience and a deep understanding of how to best meet the requirements and achieve the desired outcomes for your anticipated projects. We are currently providing on-call services for project management, construction management, and construction inspection to over 16 agencies across Southern California, including the Eastern Municipal Water District, Coachella Valley Water District, Elsinore Valley Municipal Water District, and the Inland Empire Utilities Agency. Additionally, our long-term history of serving multiple agencies on an on-call basis within Orange County, such as the cities of Huntington Beach, Irvine, Laguna Beach, and Santa Ana, further speaks to our abilities to provide responsive, knowledge expertise to meet a variety of project needs. We recognize that successful project execution depends on having the right staff in place at the right time, and Anser is proud to offer a large core of project management, construction management, and inspection staff based in Southern California. Our local presence is a key strength, enabling us to efficiently provide on-call services and staff projects within a short turnaround while also leveraging industry-leading processes, methodology, and innovative approaches.

Leading our efforts is Senior Project Manager Pedram Abbassi, who holds over 22 years of experience in construction management, specializing in infrastructure, public works, and water and wastewater projects. Pedram has been instrumental in managing several high-profile water and wastewater projects in Southern California, similar to those anticipated by the Authority, giving him a unique insight into best practices in water and wastewater construction. His extensive experience spans the management of new construction and the rehabilitation of pump stations, pipelines, storm drains, sewers, water reclamation plants, and other utility infrastructure projects. As the Senior Project Manager for this contract, Pedram will be the primary day-to-day contact with the Authority, responsible for delivering the requested construction management services. He will be supported by a team of highly experienced professionals with nearly two centuries of combined experience, including Jonathan Smith, David Entsminger, Stephen Mutch, and others, all committed to meeting the Authority's needs.

Commitment: Our team is fully committed to each client to provide a conscientious and hands-on approach to delivering our services we serve, and will remain resolute throughout our efforts with you to provide a tailored, focused approach to meeting the unique needs of the Authority. Anser has assembled a dedicated team that is prepared and available to begin work immediately upon award of this contract. We have the capability to scale our resources or bring in additional specialized expertise as needed to enable the successful completion of every project. Our primary goal is to deliver each project safely, on time, and within budget, leveraging our extensive knowledge and depth of resources to meet the Authority's objectives effectively. We remain steadfast in our commitment to the Authority throughout the duration of the contract, providing consistent and reliable support every step of the way.

Responsiveness: Anser consistently seeks to go out of our way for our clients. Our staff understand that responsiveness related to obtaining and disseminating information, making decisions, and monitoring cost and time are all drivers which determine our success. It is for this reason and other beneficial factors that contribute to our continued success with our clients that we are proud to boast a **95% repeat-business rate** with existing clients. Responsiveness and attention to detail will define the Authority's experience while working with us. Our formula for continued success is to assign project and construction management veterans with extensive knowledge, technical expertise, and similar project experience to Authority projects. When selected, our team will introduce innovation by capturing the day-to-day project activities electronically in multiple facets and through various methods, allowing Authority staff to walk the site each day from the comfort of their remote office.

We are enthusiastic about this opportunity to partner with the Authority and are confident in our ability to deliver exceptional results. Our team is committed to meeting your needs with the highest level of professionalism, expertise, and dedication, and we look forward to the possibility of working together to achieve your project goals and further the continued success of the Authority's initiatives. Please do not hesitate to reach out if you have any questions or need further information. We are eager to discuss how we can contribute to your upcoming projects..

Sincerely,

A handwritten signature in blue ink, appearing to read "Jonathan Smith".

Jonathan Smith, PE, QSD
Principal-in-Charge
Managing Director / Vice President
2677 N. Main Street, Suite 400
Santa Ana, CA 92705
Office 714.276.1135
Cell 858.472.2212

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IDENTIFICATION OF PROPOSER

ABOUT ANSER ADVISORY

Anser is a Limited Liability Company and national construction, project, and program management advisory firm established over 28 years ago. Our firm has a diverse and talented staff of over 950 professionals, including over 250 staff located in Southern California. Anser's services cover the capital development cycle from planning through construction and closeout. Our services begin with early phase strategic, organizational and program planning and continue through managing the tactical execution of each project or initiative.



Anser Advisory was recently acquired by Accenture, one of the world's leading consulting firms and leader within technology and business operations. We are enthusiastic about the opportunities that combining Anser's capital project, program, and construction management expertise with Accenture's data and digital expertise provides to our clients, further enhancing our services to a full spectrum of consulting offerings.

Our mission is to support the Authority by providing highly qualified project managers, construction managers, inspectors, project engineers, office engineers, labor compliance specialists, and administrative staff with a specialized focus on water and wastewater projects. We are committed to delivering exceptional project implementation and construction phase services that are tailored to meet the specific needs of your water and wastewater infrastructure. Anser's extensive team of professionals brings a wealth of experience in managing public works projects, particularly in the areas of water supply, wastewater treatment, and related systems, ensuring that every project is staffed with the right expertise to achieve success.

Our proposal highlights our deep experience in managing similar water and wastewater projects, the qualifications of our dedicated team, and our commitment to offering cost-effective solutions while maintaining the highest standards of quality. Clients consistently choose Anser for our focused expertise in water and wastewater infrastructure, our high standards of service, and our proven track record of delivering these critical infrastructure projects on time, within budget, and with a commitment to excellence.

MANAGING AND EXECUTING AN ON-CALL CONTRACT

The Anser team is ready whenever you need us. With our extensive experience managing resources for various agency on-call contracts, we recognize that services of this nature may range from full-time to intermittent support. Additionally, we understand that the nature of the request may be on short notice. The Anser team has a deep bench of qualified professionals that are ready to provide SOCWA with resources for any project, no matter the size, and within a moment's notice. Anser is prepared to deliver highly trained and energetic engineers and inspectors to complete SOCWA projects on time, within budget, and of the highest quality.



REQUESTED PROPOSER INFORMATION

Anser Advisory Management, LLC (dba Anser Advisory), part of Accenture

Legal Name and Address

Limited Liability Company (LLC)

Legal Form of Company

Accenture LLP

Parent Company

**300 Spectrum Drive, Suite 1400
Irvine, CA 92618**

Address of Principal Place of Business

**Jonathan Smith, PE, QSD
Principal-in-Charge
858.472.2212
jonathan.smith@anseradvisory.com**

Firm Contact Representative

WORK PLAN OR CONTRACT ADMINISTRATION

APPROACH OVERVIEW

Anser's management approach is derived from the success and experience of our experienced staff working directly for a California public entities, and additionally combines many years of experience working with and for several districts in California both as internal staff (owners) and as consultants. Our management style reflects similar beliefs to those of the South Orange County Wastewater Authority: transparency, honesty, and connection to the community. We'll assure the Authority and all stakeholders that every dollar is tracked and that project execution creates the maximum value for the Authority. The Authority will receive principal-level involvement and commitment on this project backed by a depth of resources who are each readily available to begin work immediately. The Anser staff that will be directly interacting with have decades of relevant experience, and will readily apply this experience to expertly execute your projects.

A successful project is centered on mutual trust, open communication, and the freedom to express ideas and hold each other accountable. It must be founded on the belief that each party has valuable insight and experiences that, when combined, provide the best value and outcome for the owner. On every project, we not only promote collaboration but verify that it remains in place throughout the project duration to enable the highest level of project success for all stakeholders.

Tried and true processes coupled with good planning and communication enables us to determine the answers to the following questions early in each project:

- **Program needs:** What needs to be accomplished?
- **Project budget:** How many construction dollars are available?
- **Project schedule and interdependencies:** When is it required?
- **Appropriate assignment:** Who will execute the work?
- **Deliverables required:** What is the end product?

Anser will utilize the answers to these questions to implement a proactive approach which guarantees the strategies developed around these answers are implemented, while also eliminating waste and bloat to maximize efficiency in design and construction.

Anser understands that the South Orange County Wastewater Authority expects project management consultants to deliver their projects on schedule, within budget and at the highest quality. Training, knowledge, and experience provide a sound foundation for our services. Communication is the key to successful project management and successful project outcomes. Anser follows the Standards of Practice, and we staff projects with experienced, professional and credentialed project managers.

STAKEHOLDER COORDINATION

Upon notification that an on-call project has been assigned to our team, we will establish a project meeting with the SOCWA's representative to fully understand the project, prepare and review scopes of work for various professional services, review schedule, budget, staffing and expectations, the project and what defines project success.

Our project manager, representing the SOCWA's interests, understands that communication and coordination are essential with all stakeholders with all stakeholders are essential. We recognize your projects' stakeholders to include the SOCWA personnel, the SOCWA's design firm, contractors, and the community for multiple simultaneous projects. We will determine and assess need for staff and/or consultants and secure appropriate proposals and contracts. Anser Advisory will review submittals provided by consultants including, but not limited to studies, reports, & designs and manage the consultants, verifying that their work is being completed within the allocated time and budget.

PRE-BID EFFORTS

Constructability. The Anser team will manage consultants in the preparation of project specifications and engineering plans. We propose a 60% and 90% review of plans and specifications for completeness to verify a cost-effective design that is biddable, buildable, and maintainable. The Anser team identifies the elements of project design and construction likely to give rise to disputes, then proactively resolve and create contingency plans.

Cost Estimating. Based on our project knowledge and experience, we will use state-of-the-art software to forecast the project expense and to verify the projected improvement cost.

WORK PLAN OR CONTRACT ADMINISTRATION

Prebid Services. Our team will perform value engineering and cost estimating to verify the construction bid meets the budget and expectations for the project. The Anser team will identify local contractors, material suppliers and vendors to enhance participation in accordance with the SOCWA's Procurement Policy and applicable codes, statutes, and regulations. We will also assist SOCWA performing all pre-bid activities not limited to pre-qualification, bid addenda, conformed plans and specifications sets for construction.

Bid Review and Award. If requested, our team can review bid documents and make award recommendations based on the SOCWA's procurement policies and procedures.

Outreach and Communication. If necessary, the Anser team will provide outreach assistance to minimize public disturbance and interruptions. Alternatively, we can the Anser team will coordinate with third-party outreach consultants to minimize public disturbance and interruptions.

PRE-CONSTRUCTION

Pre-construction planning is essential for identifying and preparing for major projects. Utilities, staff, the public, or local businesses disruptions must be accounted for well in advance of starting work. Anser Advisory's Project Manager is well-equipped to identify concerns or impacts and address these early. Pre-construction elements include:

- Conducting offfield assessments for identified issues and provide project scoping
- Coordination of site or building access
- Consideration of Impact, duration, and options schedules
- Coordination meeting with SOCWA staff, third-party consultants and utilities for utility relocations
- Identification of the needs and setup of temporary structures, utilities, power, water, sewer, shutdowns and traffic plans
- Depending on the project, establishment of a commissioning tracking process to forecast meetings and milestones for the overall startup and testing/commissioning process. This includes development of checklists, equipment operation information, instrumentation logic controls, and design and operations parameters
- Coordination with third-party construction manager and construction inspector

Schedule Review

The Anser team is experienced in assembling and analyzing project schedules. Pedram Abbassi will proactively meet with the construction manager and contractor prior to the initial baseline schedule to discuss contract requirements and review the contractor's proposed work plan. Once the baseline schedule has been submitted, Anser will analyze the schedule for contract compliance and viability and will confirm that the project float has not been inappropriately impacted. When construction has begun, Anser will coordinate with the construction manager to review and provide comments for the contractor's weekly look-ahead schedule.

MANAGING WORK- BUDGET- SCHEDULE

Phasing and Logistics

Anser's staff has experience with similar projects in tight residential areas where the site must maintain regular public access for local schools, residences, businesses, traffic and pedestrians, police, and fire.

We will sit down with the construction manager, contractor and project stakeholders to discuss the keys to successful coordination with the public and local agencies during construction and collaboratively compile a few tips and tactics. First and foremost, comprehensive pre-construction meetings will verify all members of SOCWA, the general contractors, subcontractors, and the engineer share the same timeline, guidelines, and understanding of the SOCWA's needs. Plans for efficient phasing, site logistics, access/utility disruptions, and communication are just a few of the processes that should be coordinated in advance of construction.

WORK PLAN OR CONTRACT ADMINISTRATION

Submittal of Proposed Work Plans

Project Management Plan Table of Contents

1. INTRODUCTION
 1. Purpose of Project Management Plan
 2. Revisions and Updates (Description/Dates)
2. CONTACTS
3. CLIENT AND DELEGATED AUTHORITY
4. KEY CONTRACT REQUIREMENTS
5. PAYMENTS
6. PROJECT COMMUNICATION
7. CLIENT AND ANSER ADVISORY ROLE
8. MEETINGS
9. SITE VISITS AND PARKING
10. CLIENT PURCHASED FF&E, TECHNOLOGY AND EQUIPMENT
11. EMERGENCIES
12. UTILITY SHUTDOWNS
13. QUALITY ASSURANCE/ QUALITY CONTROL
14. DOCUMENT CONTROL
15. DESIGN REVIEW
16. SAFETY
17. ADDITIONAL INFORMATION

Prior to the start of work, we will prepare a Project Management Plan (PMP) defining project scope, goals, and deliverables for SOCWA approval. The SOCWA has defined the project requirements in the RFP, including scope, budget, and schedule, which be continuously updated throughout the project lifecycle. The document will be used as a baseline to measure project team performance and will be referenced throughout the life of the project to verify adherence to project requirements and milestones. If we see a project going over budget or schedule, we will work with the construction manager and contractor to develop mitigation measures to bring the project back on track.

Schedule Management

Our team recognizes scheduling as one of the fundamental elements of project management—organizing the sequenced work functions, activities, and tasks into a fixed timeframe. The schedule represents the project plan and will be continuously monitored to verify that the work is being performed within the established time from design through construction.

We will coordinate with the construction manager to conduct weekly reviews of the contractor's schedule and conduct a look-ahead meeting to monitor progress and prepare for the monthly schedule updates. These updates will provide the status of each work activity and revise any activity sequencing as required due to field conditions or changes. The update and changes made will be presented preliminarily for review by the team. Once approved, schedule updates will be finalized and included as the current tool to track progress.

Communication

There will be several meetings during the pre-construction, construction, and close-out phases of the project. The pre-construction kickoff meeting will align the project team (SOCWA, designer, contractor, third party consultants

and construction manager) on significant issues and project goals. Regular construction progress meetings will be held on to keep the SOCWA informed of project progress and provide opportunities to discuss project health and safety, cost, schedule, and other critical project issues as well as follow-up on previous meeting minutes. Anser will document key discussions at the progress meetings and will prepare thorough meeting minutes for distribution and posting in the approved project management system.

Progress Reports Communications

At the end of each month, our team will submit a project status update to the SOCWA, detailing construction progress, construction schedule status, potential problems and challenges, budget status, as-built development, quality control updates, and other pertinent project information. Monthly progress reports will include photo documentation and supporting documents to keep the SOCWA informed. Our Anser team will also draft SOCWA Board of Director reports as required.

Document and Deliverable Tracking

Anser will work with the designer, construction manager, and contractor to develop a list of critical submittals and set a realistic expectation on submittal reviews by the engineer. A list of anticipated project submittals will be generated to assist with project tracking and keeping the contractor accountable with project deliverables. We will coordinate with the construction manager to develop a list of spare parts, warranties, and training in accordance with the project requirements. We understand the importance of document and deliverable tracking and will create and maintain logs for reference by the project team.

WORK PLAN OR CONTRACT ADMINISTRATION

PROJECT CONTROLS AND DOCUMENTATION

Anser will utilize the SOCWA's approved project management software to store and collect project data. Our staff works with many systems such as Procore, Unifier, Project Manager, Virtual Project Office (VPO), e-Builder and others. Typical daily work elements include:

- Daily inspections and construction observation may include transmittals, updated schedules, progress payments, change orders, utility service requests, etc.
- Technical/specialty inspections, QA/QC testing
- Daily reports and photo documentation
- Processing RFIs, submittals and other project correspondences
- Identifying permitting and environmental requirements
- Review and provide recommendations for substitution requests
- Monitoring construction sequence, looking for future impacts, and addressing unknown conditions or possible delay or deficiency elements
- Preparing daily reports and other communications to SOCWA staff, contractors, and other parties or agencies as required for project success

Progress Payment Review

Prior to the Notice to Proceed, the contractor will submit for SOCWA approval a schedule of values for all lump-sum bid items. Our team will meet with the contractor after the agreed-upon cut-off date to review and verify quantities of work completed during the current period. Once agreed upon, the contractor shall submit an invoice for work completed.

CLAIMS AVOIDANCE & ANALYSIS

Claim avoidance is a process that begins early in the project. A careful review of initial project documents (schedules, submittals, etc.) is essential to confirm compliance with contract requirements. These details and processes will be thoroughly outlined in the PMP. The Anser team will regularly monitor all construction activities and document thorough field observations, daily reports, inspections, and photo documentation to monitor conformance with anticipated project activities. Changes or conflicts will be identified and handled quickly to avoid impact to the project. Anser will hold regular meetings to discuss outstanding changes and disputes and will actively work toward a speedy resolution. We will manage the project budget and minimize exposure to excessive risk in a project.

Anser's Quality Program

Quality across the entire project and throughout all multi-faceted project phases is achieved through a significant amount of relevant experience in performing tailored assessments, skilled personnel, adequate planning, use of suitable tools and procedures, proper definition of job requirements, proper supervision, and effective technical direction. Quality is verified through surveillance, inspection, testing, checking, cross-checking, review, and audit of work activities and documentation. The firm's internal Quality Assurance Program Manual provides the framework for Anser's quality control programs. The internal QA/QC program is managed by **Jonathan Smith PE, QSD**, our proposed **Principal-in-Charge**, for this project. The Anser team will provide periodic inspection of project site, assist, and provide technical guidance to inspectors in studying field problems and incorporating design revisions as necessary.



WORK PLAN OR CONTRACT ADMINISTRATION

RISK MANAGEMENT

Our primary responsibility is to manage the risk of the Authority. We will make understanding your project goals and objectives the central focus of our services. We will manage the entire project team based on the successful execution of your goals.

Our assigned team members will protect the Authority by identifying construction risks and exposures and formulating an effective risk management strategy to mitigate the potential for loss. Our systematic procedures have been created to minimize and manage your risk. We will facilitate, via the RFQ/RFP process, hiring the most qualified architect and/or engineer and contractor, then provide a thorough review of each entity's contract. Fiscal management of the total building costs will be monitored throughout the design and construction durations. Contract reviews and managing the contractors are critical components of risk management. Anser's knowledge of local contractor and supplier markets, preparedness for weather delays, and practice of confirming financial stability of construction team members are all examples of the steps we take to minimize your risk on a project.



Our team will provide oversight for overall quality assurance. We will coordinate owner requirements with technical issues such as program compliance, construction cost analysis, regulatory compliance, and sustainability. During construction, Anser's committed project manager will perform detailed site visits, evaluating the quality of construction and promoting appropriate improvements as needed while monitoring the schedule to verify that major milestones are met. To evaluate the quality of construction, we adhere to American Society for Testing and Materials (ASTM) Standards, as well as on-site observations and general industry standards.

We monitor the work being performed to guard the Authority and the community against performance of any work that is not consistent with plans and specifications. Our management strategies will mitigate the potential for risk at all levels including safe construction, positive community perception and participation, and the opportunity for significant impact on the local economy.

RISK REGISTER

At a minimum the Pedram Abbassi will create and monitor a risk register that identifies as many of the potential risks to the project as possible. Each item is rated and weighted with a simple scale of impact, probability of occurring, risk ranking, corrective actions and responsible parties for each risk identified. Risks will be reviewed weekly at SOCWA meetings as part of monitoring and control efforts.

SAMPLE RISK REGISTER

Risk Identifier	Risk Name	Detailed Risk Description	Risk Impact	Likelihood	Severity	Potential Time Impact	Potential Cost Impact	Mitigation Measure	Likelihood After Mitigation	Severity After Mitigation	General Comment
Existing Conditions											
1	Abandoned Infrastructure / Unknown Conditions	Abandoned or unanticipated infrastructure may cause impacts to the excavation of existing utilities. Possibility of other unknown structure/utilities.	Unforeseen conditions, potential time delays and cost impacts	Likely	Moderate	Yes	Yes	Include an allowance bid item in the contract.	Likely	Minor	
2	Excavated contaminated soil	Verification of existing conditions which could contain asbestos, PCB's, petroleum, hazardous waste or radioactive material, and contaminated soil that would have to be remediated by asbestos technicians in the field.	Additional cost for remediation of soils	Possible	Serious	Yes	Yes	Include an allowance bid item in the contract	Possible	Moderate	
3	Traffic impact	The project site is located next to residential community (marina Pacifica) and commercial properties (Gelson's market) on 6204 Marina Dr. and on the way of Davies Launch Ramp and marine maintenance and harbor patrol/lifeguard station.	Additional cost for traffic control and possible accident	Possible	Serious	Yes	Yes	Provide and furnish a traffic control plan and traffic control coordinator.	Possible	Moderate	
4	Existing Utilities	Unknown and inaccurately mapped utilities. Power, comm, water, storm drain, gasline, signal light, investigation and relocation of utilities or project structure, infrastructure relocation	Project delays and cost impacts.	Likely	Moderate	Yes	Yes	Perform a formal utility investigation, C-below, records evaluation.	Unlikely	Minor	100% risk shifting to contractor can be project debilitating and costly.
Regulatory											
5	Project site maintenance and interface with adjacent property	Continuous and accurate communication will be essential to deliver project on schedule. Coordination with Marina Pacifica OHA and owner representatives will be required to properly execute construction sequencing and keep residents and businesses informed.	Project delays, sequencing interruptions, temporary closures to services, and dissatisfied residents.	Possible	Serious	Yes	Yes	Establish communication expectations early, to deliver timelines, sequencing updates, email bulletins and weekly construction meeting participation.	Unlikely	Minor	
6	Acknowledgement from other Permitting Agencies	It must be noted that other agencies have reviewed the plans and project details. Confirm all required permits are in hand prior to bid.	Time impact resulting from extensive reviews	Possible	Serious	Yes	Yes	Identify all parties requiring a review for permitting. Include an allowance bid item in the contract	Likely	Moderate	
7	CA Coastal Permit Coordination	Coordination with Coastal Development Permit from California Coastal Commission, and verifying compliance with the permit requirements and specifications. Permit Number 2104-07 (LCDP21-018)	Project delays should the contractor fail to comply with requirements or coordinate with local and coastal inspector.	Possible	Moderate	Yes	Yes	Establish proactive communication and coordination meetings with the Contractor & Coastal inspector. Verify the compliance with permits prior to construction.	Unlikely	Minor	
8	Handling of all hazardous / non-hazardous chemicals during construction	Handling, Storage, cleanup of chemicals, solvents, oils and greases, etc. shall be developed for all construction elements. Requirements that all chemicals be handled by the appropriately trained persons should be noted in the construction documents.	Time impact resulting from additional requirements being added to plans	Minor	Minor	No	No	Ensure that the plans clarify detailed requirements of storage / handling in the project documents	Minor	Minor	
Material Availability											

WORK PLAN OR CONTRACT ADMINISTRATION

STARTUP AND TESTING

Our will oversee the startup and commissioning requirements as outlined in the project specifications. We will coordinate with the construction manager to supervise the contractor's efforts throughout the construction duration. We assume the design engineer, SOCWA staff, construction manager and contractor staff will attend at various times throughout the commissioning phases to monitor the systems' construction and testing progress.

The contractor will prepare a final commissioning report which Anser will review. This report will include:

- Direct Witness and Functional Performance Tests overseen by various team partners
- System and components testing, confirmation of system sequences of operation, and other significant modes and sequences.
- Prepare pipeline flushing and disinfection plans
- Setting and staging for miscellaneous alarms, power failure, security alarm, etc.
- Documentation of sensors and actuators calibrated during construction, check listing by the installing contractors and spot-checked by the commissioning agent
- Results of the seven-day system test and retests, if necessary
- Summaries of operational training efforts provided by the contractor

PROJECT CLOSEOUT

Anser believes punch list items should begin well before the completion of a project. Following this logic, a punch list of required completion items will be maintained and electronically shared with the contractor throughout the project duration. Completing these items as the project progresses minimizes added punch list items during final job.

walks with the SOCWA and applicable project stakeholders. In addition, this open communication helps minimize disputes on the contractor's behalf at the project end, ensuring a quick project closeout. Anser routinely closes out projects within a few months, easily beating expectations the industry-standard six-month closeout window.

At the end of the project, Anser's project manager will complete both a proposed and final payment to the contractor. They will assist the SOCWA in filing all required closeout documentation, including the Notice of Completion. They will also supply the SOCWA and applicable stakeholders with a separate package containing all operational manuals, warranties, permit closure documents, as-built/record drawings and other such guarantees as they relate to the project. A final project report, which will include lessons learned, will be reviewed with the SOCWA. These lessons learned will be crucial in the administration of future SOCWA projects.



EXPERIENCE AND TECHNICAL COMPETENCE

FIRM EXPERIENCE

Anser has established a reputation for providing superior services on the most technically challenging projects by implementing a proactive approach to all our projects. Having worked on programs of all sizes, our staff has experience delivering multi-billion-dollar programs and many limited-scale projects concurrently. We provide specialized training to our staff and equip them with the tools they need to succeed in any short-term or long-term construction project. Regardless of project scope or size, the fundamentals associated with successful project delivery remain the same; they involve conducting proactive risk analyses, constructability reviews, and proactive cost and schedule management.

Anser will also leverage its dynamic and flexible company structure to provide the right resources at the right time to deliver on any civil engineering needs throughout the lifecycle. We have demonstrated this capability through our vast number of years managing similar projects and implementing Owner's Representative best practices throughout our client's project lifecycle, from conception to post-construction.

Experience with California Municipalities

For over 28 years, Anser has provided construction management services to hundreds of municipalities throughout California. We are familiar with the complexities of these municipalities, including permitting and regulatory compliance, environmental compliance, quality control and inspection, community engagement, stakeholder coordination, and timeline and budget management. We have built strong relationships to facilitate the progress of their projects and achieve compliance with all regulations. An abbreviated list of our current municipal clients includes:

- City of Anaheim
- City of Huntington Beach
- City of Irvine
- City of Laguna Beach
- City of Laguna Niguel
- City of Lake Forest
- City of Santa Ana
- City of Chino
- Coachella Valley Water District
- City of Corona
- Crescenta Valley Water District
- City of El Monte
- City of Escondido
- Eastern Municipal Water District
- Elsinore Valley Municipal Water District
- City of Gardena
- Inland Empire Utilities Agency
- City of Menifee
- City of Oceanside
- City of Murrieta
- Moulton Niguel Water District
- City of Ontario
- City of Pasadena
- City of San Diego
- City of Temecula

REFERENCES

Organization	Contract Description	Reference Contact
Ontario Municipal Water 	Ontario PSA On Call Project Management	Omar Gonzalez oegonzalez@ontarioca.gov 909.395.2578
City of Corona 	On-Call Project Management Construction Management, and Inspection	Kenny Nguyen Capital Improvement Program Manager kenny.nguyen@coronaca.gov 951.830.0049
City of Anaheim 	On-Call Consulting Support Services	John Martin, Construction Contracts Administrator JMartin@anaheim.net 714.765.5157
City of Long Beach 	On-Call Project Management Services	Marilyn Surakus, Project Management Bureau Manager marilyn.surakus@longbeach.gov 562.570.5793

PROJECT SPECIFIC EXPERIENCE

COACHELLA VALLEY WATER DISTRICT, ON-CALL PROJECT MANAGEMENT AND CONSTRUCTION MANAGEMENT SERVICES | COACHELLA VALLEY, CALIFORNIA



Our firm has a comprehensive portfolio of projects completed for the Coachella Valley Water District (CVWD), focusing on water and sewer infrastructure across various residential and commercial developments. We have managed and executed numerous water main replacements, sewer installations, and reservoir constructions, such as the Verano-Rio Vista Reservoir and the Avenue 66 Transmission Main. Our work also extends to specialized projects like the Oasis In-Lieu Recharge Project and irrigation system improvements. These projects demonstrate our ability to handle a diverse range of infrastructure challenges, consistently delivering high-quality results tailored to CVWD's specific needs. The list below is a snapshot of our recent work with the CVWD, which includes approximately 150 different task orders in the current contract: Avenue 66 Transmission Main, Phases 1-B, Phase 2 and Lincoln Street Water Extension: This project consists of the installation of 30" DIP, 12" DIP and appurtenances (7miles)

- Avenue 66 Transmission Main, Phases 1-B, Phase 2 and Lincoln Street Water Extension: This project consists of the installation of 30" DIP, 12" DIP and appurtenances (7miles)
- Hydropneumatic Tank Replacement-Phase 2 (3 tanks): This project consisted of the installation of pipeline and surge tanks, pressure test, and Bacteria Analysis testing.
- Catino Tract 38291: This project consists of the installation of sewer and water appurtenances.
- Coachella Valley Arena Well Site: This project consists of the installation of 12" DIP and block wall and steel gates.



RELEVANT PROJECT HIGHLIGHT: COACHELLA VALLEY RESERVOIR 3570-11

Anser provided inspection services on this reservoir project which consisted of the construction of a new reservoir in the hills above the I-10 freeway near Cathedral City. This new reservoir is an effort to improve water infrastructure in the Coachella Valley and replace aging facilities. This concrete-lined reservoir holds 2.5 million gallons of drinking water, aiming to enhance the region's water storage capacity. The newly constructed Reservoir 3570-1, located near Edom Hill, will provide drinking water to more than 1,300 homes in the Verano master-planned community, formerly known as Rio Vista. Covering a service area of about 1,000 square miles from the San Geronio Pass to the Salton Sea, the Coachella Valley Water District serves approximately 270,000 people, making it the largest provider of drinking water in the Coachella Valley. With a total of 67 reservoirs, including Reservoir 3570-1, the district has a combined storage capacity of over 171.1 million gallons per day to meet the valley's water demands.

PROJECT SPECIFIC EXPERIENCE

CITY OF CORONA, ON-CALL PROJECT MANAGEMENT, CONSTRUCTION MANAGEMENT, INSPECTION, AND LABOR COMPLIANCE SERVICES | CORONA, CA



Anser Advisory is providing project management, construction management, inspection, and labor compliance services for development and CIP projects throughout the City of Corona. Project elements involve water and sewer pipelines, lift stations, reservoirs, streets, roadways, streetlights, facilities, parks, land development, and utility relocations. Projects include:

- 91 Freeway Design Build (\$1.6B) - Water and Sewer relocations (\$50M)
- Arantine Hills Force Main (\$4M)
- Arlington Desalter Connection (\$750K)
- Butterfield Park 30" Directional Drilled Recycled Waterline (\$3M)
- Cajalco Road/I-15 Freeway Interchange (WRF-3) New Force Main (\$3M)
- Cerritos Water Main Replacement (\$1.5M)
- CIPP Sewer Lining on Teddy Bear Lane (\$700K)
- CIPP Sewer on Smith Street (\$200K)
- Green River Road Widening and Waterline Project (\$6.2M)
- Harrington Village Sewer Line (\$400K)
- Hummingbird and Sampson Pressure Reducing Stations (\$2M)
- Keith 1220-Zone Potable Water Storage Tank (Reservoir) Project (\$7.2M)
- Liberty Howe Sewer Line Replacement (\$500K)
- Lincoln Elementary School Waterline Project (\$128K)
- Masters Drive Recycled Waterline and Repaving Project (\$2.5M)
- Ontario Avenue Pipeline (\$2M)
- R-3 Reservoir and Booster Pumps (\$4M)
- Rincon Street and Malloy Court Sewer Line Replacement (\$1.1M)
- Sampson Street Pressure Reducing Station Replacement Project (\$350K)
- Sierra Bella Development - Waterline (\$1.1M)
- Sixth Street Waterline Extension-Grand to Rimpau (\$863K)

CITY OF HUNTINGTON BEACH, ON-CALL CONSTRUCTION MANAGEMENT, INSPECTION, AND LABOR COMPLIANCE SERVICES | HUNTINGTON BEACH, CA



Anser Advisory (formerly Wallace & Associates) is providing construction management, inspection, administration, and labor compliance services on a task order basis for state funded, federally-funded, and non-state/federally-funded capital improvement projects. This contract covers various public works infrastructure projects, including:

- Well 1A Replacement of Well No 1, CC-1495 (\$4.5M)
- McFadden Lift Station, (\$3.8M)
- Edgewater Sewer Lift Station Project, CC-1515 (\$3.5M)
- Slater Lift Station, CC-1561 (\$4M)
- Edinger Avenue, Algonquin Street and Delaware Street Rehabilitation, CC-1575 (\$2.9M)
- Edwards/Varsity Water Main Replacement, CC-1558 (\$1.8M)
- Sunset Beach Water Main Project, Anderson Street to Warner Avenue Project, CC-1435 (\$4M)
- Emergency CIPP Sewer Repairs (\$800K)
- FY 19/20 Arterial Pavement Rehabilitation (\$3.3M)
- FY 19/20 CIPP Sewer Lining Project (\$400K)
- FY 19/20 Sewer Lining Project, CC-1599 (943K)
- FY 20/21 Pavement Arterial Rehabilitation, CC-1595 (\$3.2M)
- Warner Avenue and Rotterdam Lane Sewer Repair Project, CC-1616 (\$400K)
- Central Park Restroom Phase 3, CC-1608 (\$1M)

PROJECT SPECIFIC EXPERIENCE

CITY OF PASADENA, ON-CALL CONSTRUCTION MANAGEMENT AND INSPECTION SERVICES | PASADENA, CA



RELEVANT PROJECT HIGHLIGHT: CITY OF PASADENA, CALIFORNIA

Anser Advisory staff provided construction management, inspection, and administrative services to the City of Pasadena's Water and Power Department on an as-needed basis for capital projects. Specific projects include:

- Garvey Well Project (\$4M)
- Jones Station Generator Tap Box Installation Project (\$23K)
- Garfield Well Replacement Project (\$1.6M)
- Tap Boxes at eight Well Sites (\$350k)
- San Gabriel Street Improvements Project (\$2.5M)
- Eight Booster Station Generator Tap Boxes Project (\$600K)

CITY OF ANAHEIM, ON-CALL PROJECT AND CONSTRUCTION MANAGEMENT SERVICES | ANAHEIM, CA



Anser staff have been engaged with the City of Anaheim through legacy contracts over the last many years, however have specifically been providing construction management and inspection services since 2022 under an on-call service contract. Our staff have recently provided construction management and inspection services for the following infrastructure and public facilities projects:

- Alley Sanitary Sewer Improvements 2021
- Fire Station 4 Constructability Review
- Cerritos Ave and South St. Water Mains
- Brookhurst Community Center
- Center Greens Park Improvements
- Various Claims Mitigation and Scheduling tasks
- Sustainability Education Center

PROPOSED INNOVATIONS

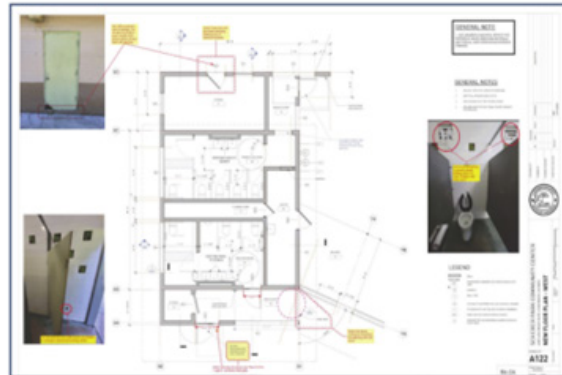
IN-HOUSE RESOURCES

Approach to Civil Integrated Management

Anser effectively leverages tools available today, including bringing our projects successfully into the future by implementing Civil Integrated Management (CIM). CIM is the technology-enabled collection, organization, managed accessibility, and the use of accurate data and information throughout the lifecycle of a project. Our aspirations are to make incremental improvements to functions in workflow and enable full digital workflows from project inception to project delivery. Our team is encouraged to always find cost and time savings on all projects and CIM is proving to be a true value add to our clients that brings those benefits. We have and continue to work with different technologies that best fit our projects and have identified BlueBeam, Virtual Project Office (VPO), OpenSpace, and C-MIS project management software technology to be two tools that we believe can bring value to the Authority's projects.

BlueBeam

Anser utilizes Bluebeam Revu software for its constructability review comments on the project plans and specifications. Anser will mark up a set of plans on the PDF editor, as shown in the example drawing. There are two benefits with this software which can improve efficiency and reduce review times between the project team.



BLUEBEAM BENEFITS

- Cloud-based server lets multiple team members to comment directly on the PDF. Allowing simultaneous reviews.
- Once all the comments are compiled on the marked-up PDF set, the software can export a review sheet that identifies the page number, comment, and, most importantly, a picture of the discussed item, eliminating an Excel spreadsheet log.

Virtual Project Office

Anser has leveraged a Microsoft SharePoint-based Project Management Information System (PMIS) called Virtual Project Office (VPO) which can be deployed to facilitate project tracking, administration, and management reporting. The VPO is a secure, easy-to-use, web-based workspace that all project stakeholders (the Authority and Anser staff, general contractor, etc.) can use to streamline and automate processes and accelerate productivity and storage of all design and construction documents by leveraging leading cloud-based solutions.

OpenSpace

Anser can provide 360-degree image captures via OpenSpace. These 360-degree images are stitched to create a virtual walk (think google maps for the project). The pictures are geotagged allowing users to locate exact locations on the plans via the site plan and provide split-screen images of current-day activities and any other past-day activities in the same exact area. This tool has been proven invaluable in pre-construction services, in claims avoidance or dispute resolution, and serving as a historical record, which provides information for as-built designs in the future, if needed. Anser successfully utilized this for multiple projects such as the Riverside County Transportation Department (RCTD)'s Avenue 66 Grade Separation Project and I-215 Scott Road Interchange Project. An example of the before/after comparison of our Scott Road Interchange Project is shown to the right.

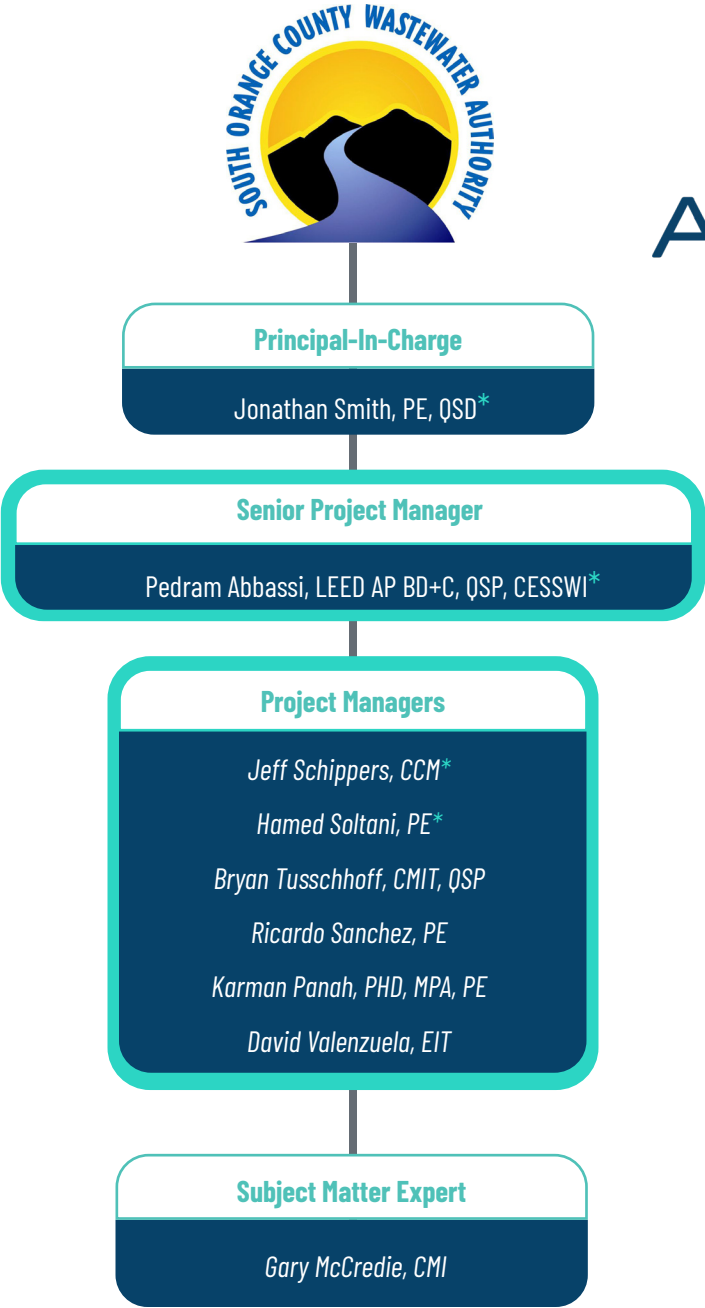


STAFFING RESOURCES

A. FIRM STAFFING AND KEY PERSONNEL

We have assembled a highly experienced team of experts to provide the Authority with Project/Construction Management Services. Our nine personnel that will be principally responsible for working with the Authority will be: **Jonathan Smith, PE, QSD, Pedram Abbassi, LEED AP BD+C, QSP, CESSWI, QSP, Jeff Schippers, CCM, Hamed Soltani, PE, Bryan Tusschhoff, CMIT, QSP, Ricardo Sanchez, PE, and Gary McCredie, CMI** as our Subject Matter Expert. Brief biographies and qualifications of these individuals are presented on the subsequent page. Additionally, we have included key personnel listed in our organizational chart that align with the services requested in the RFQ.

We have additional staff that can be placed as-needed per project. We have over 250+ technical staff available in Southern California that can be available as-needed.



** Indicates key personnel*

KEY PERSONNEL



JONATHAN SMITH, PE, QSD | PRINCIPAL-IN-CHARGE

Education:
BS, Civil Engineering

Licenses/Certs:
CA Engineer#c61253
SWPPP NO.23727

Experience:
30+ years

Jonathan is a hands-on, results-oriented leader with a proven history of productivity and an ability to take complex issues and get to a consensus quickly. During his 30 plus-year career, he has worked for numerous agencies throughout Southern California in roles varying from Director of Public Works to Senior Civil Engineer. He has experience related to construction management and design, water/wastewater projects, roadways, sound walls, retaining walls, public facilities, and various other public works projects. Jonathan is a highly effective manager with an extensive amount of experience and skills.

REPRESENTATIVE EXPERIENCE:

- Buccaneer Park Restroom (PSA) - Project Manager
- College Blvd. Widening Waring - Old Grove (CIP# 20-00013) (SB-1 Funds), City of Oceanside, CA - Project Manager
- City of Menifee, CIP 21-04 Fire Station No. 5 - Principal-In-Charge
- Lindley Reservoir, City of Escondido, CA -Project Manager



PEDRAM ABBASSI, LEED AP BD+C, QSP, CESSWI | PROJECT MANAGER

Education:
BS, Civil Engineering

Licenses/Certs:
LEED AP BD+C
SWPPP #24390
CESSWI #3524

Experience:
+ years

Pedram has accrued more than 22 years of construction industry experience, demonstrating his expertise in a range of responsibilities. He has served as a primary point of contact between design team members, general contractors and owner representatives. Pedram's responsibilities have included onsite owner representation, change management processing, project administration, schedule and budget analysis, safety and security for prime contractors, daily communication with the owner, engineering department, architect, consultants and prime contractors regarding plans and specification compliance.

REPRESENTATIVE EXPERIENCE:

- Water Main Improvements, City of El Segundo, CA - Project Manager
- PW23-08 Wastewater Infrastructure Improvements, City of El Segundo, CA-Project Manager
- Water Main Improvements Project on Grand Ave, City of El Segundo, CA-Project Manager
- Water Main Improvements Project on Grand Ave, City of El Segundo, CA-Project Manager



JEFF SCHIPPERS, CCM | PROJECT MANAGER

Education:
MBA
BS, Business
Management

Licenses/Certs:
Cert. Const. Manager
#7651

Experience:
30+ years

Jeff Schippers has over 30 years of construction engineering experience in project management/construction management/contracting throughout public works, private development and large public facilities. His background is diverse and includes water and sewer pipeline installations, water/wastewater treatment facilities, water storage and transmission, roadway, mechanical and electrical facilities. He has strong background streamlining construction management approaches, implementing new systems, managing diverse personnel, training/mentoring staff and achieving the highest level of safety, productivity and profitability.

REPRESENTATIVE EXPERIENCE:

- Mesmer Low Flow Lift Station, Culver City, CA - Construction Manager
- City of Corona Department of Water and Power, CIP Projects, Corona, CA - Construction Manager
- LA County Fire Department Station 158 , Upgrades, Gardena, CA - Construction Manager

KEY PERSONNEL



HAMED SOLTANI, PHD, PE | PROJECT MANAGER

Education:
D.Sc, Civil and
Environmental
Engineering

Licenses/Certs:
PE CA #94142
A&B# 911473

Experience:
17+ years

Hamed is a civil and mechanical engineering professional who has over 17 years of program and construction project management experience procuring and managing large capital infrastructure projects and design submittals with an acute emphasis and strength in heavy civil, water/wastewater, earthworks, and underground (wet/dry) utilities. He specializes in value engineering and integrating utilities and transportation solutions in highly complex projects by working closely with all engineering specialties and contractors for all project delivery types. Hamed has supported client demands and oversees engineering design and analysis.

REPRESENTATIVE EXPERIENCE:

- Buccaneer Park Restroom (PSA) – Project Manager
- College Blvd. Widening Waring – Old Grove (CIP# 20-00013) (SB-1 Funds), City of Oceanside, CA – Project Manager
- City of Menifee, CIP 21-04 Fire Station No. 5 – Principal-In-Charge
- Lindley Reservoir, City of Escondido, CA –Project Manager



BRYAN TUSCHHOFF, CMIT, QSP | PROJECT MANAGER

Education:
BS, Physical
Geography and
Earth Science

Licenses/Certs:
PMC
SWPPP #20944

Experience:
37+ years

Bryan has 36 years of experience in project management, construction management, and construction inspection. He has a variety of project experience, including underground installation of wet and dry utilities, electrical, sewer, water, storm drain, oil, and structural and architectural concrete placement. Bryan's experience extends to mass grading earthwork operations, environmental remediation and mitigation, surface water/stormwater management, Stormwater Pollution Prevention Plan (SWPPP) compliance, and Supervisory Control and Data Acquisition (SCADA) system installation.

REPRESENTATIVE EXPERIENCE:

- Project Management and Construction Management Services, City of Murrieta, CA
 - Glen Arbor Dog Park
 - Sykes Ranch Park
 - Town Square Park Improvement Project Phases 1, 2 and 3



RICARDO SANCHEZ, PE | PROJECT MANAGER

Education:
BS, Civil Engineering

Licenses/Certs:
PE CA #C82447
APWA
QSP

Experience:
25+ years

Ricardo is a civil engineering and project management professional with more than 22 years of diversified engineering and project management experience in public works. His experience includes wastewater and potable water systems. He is responsible for leading numerous multi-disciplinary teams to implement large multi-year programs and projects. His background includes program and project management, design and design management, construction management, schedule and budget control, permitting, supervision, and general management of public process and projects. and team builder.

REPRESENTATIVE EXPERIENCE:

- River Supply Unit 7, Los Angeles Department of Water and Power, Burbank, CAP-roject Manager
- Multiple Capital Improvement Projects, City of Corona, CA-Project/Construction Manager
- San Antonio Avenue and 8th Street, 36" and 30" Diameter Transmission Water Main (UT1046), Phase 2, Ontario Municipal Utilities Company at the City Upland, CA-Project/Construction Manager

KEY PERSONNEL



KAMRAN PANAH, PHD, MPA, PE | PROJECT MANAGER

Education:
EngD, Civil
Engineering (Water
Resources)

Licenses/Certs:
PE CA #41483
SWPPP #21523

Experience:
35+ years

Kamran is a skilled water engineer/project manager with over 35 years of experience in planning, design, project management, and construction management of various capital water projects. He has experience across both private and public sector such as water districts, cities, and counties each requiring special considerations with multiple stakeholders. Kamran has extensive knowledge of design of water transmission and distribution facilities, pre-construction planning, construction contracts, procurement, project execution, financial management, and project closeout.

REPRESENTATIVE EXPERIENCE:

- Ventura County Water and Sanitation Department, Moorpark, CA-Capital Program Engineer - Staff Augmentation Services
- Camrosa Water District, Camarillo, CA-Construction Manager
- Golden State Water Company, Torrance, CA -Capital Program Engineer - Staff Augmentation Services



DAVID VALENZUELA, EIT | PROJECT MANAGER

Education:
BS, Civil Engineering
AS, Mathematics

Licenses/Certs:
EIT #162000

Experience:
19+ years

David is an experienced field engineer, manager and construction inspector and has served on a variety of projects that include City and Public Agency facilities, street improvements, site infrastructure and pipelines. David's experience includes project management, project engineering, administration, cost controls, SWPPP inspection and field inspection. He communicates effectively to all members of a project team including the contractor, owner representatives and other consultants. He is able to create and evaluate detailed reports for budgets, cost analysts, change orders, submittals, RFIs and schedules.

REPRESENTATIVE EXPERIENCE:

- Concrete Sewer Rehabilitation Program, City of South Gate, CA-Project Manager
- Christopher Ranch Development - Sewer Force Main Project, City of Corona, CA-Senior Construction Inspector
- Lindley Reservoir Replacement Project, City of Escondido, CA-Senior Construction Inspector
- Sewer Line Replacement Project, City of Hemet, CA-Senior Construction Inspector



GARY MCCREDIE, CMIT | SUBJECT MATTER EXPERT

Education:
BS, Business
Management

Licenses/Certs:
DHS, Water
Treatment T-2

Experience:
30+ years

Gary has over 30 years of construction industry, and water/wastewater experience for all types of public works projects. He has worked as a contractor for large infrastructure projects in Southern California and has held numerous positions including Project Manager, Construction Inspector, Quality Control Supervisor, and Project Safety Supervisor for multiple projects at a time. He has also served as a Superintendent or Inspector for numerous projects involving major infrastructure such as pipeline installation, sewage lift stations, pump stations, and deep trench excavation in primary street improvements and conventional dry utilities treatment plants.

- RP-1 Disinfection Improvements Project, Inland Empire Utilities Agency, Chino, CA- Project Manager
- Highway 133 Water Main, Laguna Beach County Water Company, Laguna Beach, CA Project Manager
- La Mirada Main Replacement, Laguna Beach County Water Company, Laguna Beach, CA-Project Manager
- Western Avenue Pipe Burst, Golden State Water Company, Gardena, CA-Project Manager
- Buena Vista Main Replacement, Golden State Water Company, Barstow, CA-Project Manager

CONCLUSION

Anser is committed to accomplishing the goals of SOCWA and delivering each project on schedule and within budget. **Our Team Delivers Value.** Anser is committed to accomplishing the goals of SOCWA delivering a cost-effective approach while maintaining each project schedule and budget.

Teamwork. Teamwork will keep any project assigned to us moving. And there is no better team than ours to shepherd each project through the construction process. Additionally, we will utilize the latest technologies to offer seamless integration between design and construction, thus minimizing any risks.


Experienced, Trusted Leaders. Our team is experienced and committed to the success of SOCWA projects. Our customer-focused, on-site management reduces risks and provides clients with certainty of outcome. Client Service is fundamental to our business approach, our core values, and execution of our projects.

Innovative Solutions. We take a proactive approach to creating innovative project solutions. Using specialized construction strategies and technologies, we develop solutions to logistical challenges.

Based on our long history of project successes and our leveraged project management practices, we will execute on our responsibilities to deliver your projects on time, on budget and with the quality you expect.



PRICING

 Labor	<p align="center"> SOUTH ORANGE COUNTY WASTEWATER AUTHORITY RATE SHEET FOR ON-CALL PROJECT MANAGEMENT SERVICES August 22, 2024 </p>		
Position	1st yr Billing Rate	2nd yr Billing Rate	3rd yr Billing Rate
Principal	\$200.00	\$206.00	\$216.30
Technical Expert / Subject Matter Expert	\$180.00	\$185.40	\$194.67
Supervising Project Manager	\$195.00	\$200.85	\$210.89
Senior Project Manager	\$190.00	\$195.70	\$205.49
Associate Project Manager	\$173.00	\$178.19	\$187.10
Construction Manager, II	\$150.00	\$154.50	\$162.23
Construction Manager, I	\$135.00	\$139.05	\$146.00
Inspector (Prevailing Wage)	\$185.00	\$190.55	\$200.08
Inspector (Non-Prevailing Wage)	\$145.00	\$149.35	\$156.82
Scheduler, Senior	\$195.00	\$200.85	\$210.89
Scheduler, Associate	\$145.00	\$149.35	\$156.82
Scheduler, Junior	\$120.00	\$123.60	\$129.78
Estimator, Senior	\$185.00	\$190.55	\$200.08
Estimator, Associate	\$160.00	\$164.80	\$173.04
Estimator, Junior	\$110.00	\$113.30	\$118.97
Admin	\$95.00	\$97.85	\$102.74
Admin, Senior	\$110.00	\$113.30	\$118.97
Labor Compliance Manager	\$135.00	\$139.05	\$146.00
Labor Compliance Analyst	\$105.00	\$108.15	\$113.56

CERTIFICATIONS

1. *Respondent 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 RFP.*
Anser 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 RFP.
2. *Respondent certifies that it is willing and able to obtain all insurance required by the form contract included as Attachment C.*
Anser certifies that it is willing and able to obtain all insurance required by the form contract included as Attachment C.
3. *Respondent certifies that 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 that is the subject of this RFP and certifies that the proposed pricing includes funds sufficient to allow respondent to comply with all applicable local, state, and federal laws or regulations governing the labor or services to be provided.*
Anser certifies that 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 that is the subject of this RFP and certifies that the proposed pricing includes funds sufficient to allow respondent to comply with all applicable local, state, and federal laws or regulations governing the labor or services to be provided.
4. *Respondent acknowledges and agrees with all terms and conditions stated in the RFP.*
Anser acknowledges and agrees with all terms and conditions stated in the RFP.
5. *Respondent certifies that all information provided in connection with its proposal is true, complete and correct.*
Anser certifies that all information provided in connection with its proposal is true, complete and correct.

Proposer's Information Form

PROPOSER (please print):

Name: Anser Advisory Management, LLC
Address: 300 Spectrum Center Dr, Suite 1400
Irvine, CA 92618
Telephone: 310.726.2700 **Email:** _____

Contact person, title, email, and telephone: Jonathan Smith
Principal in Charge, jonathan.smith@anseradvisory.com, 858.472.2212

Proposer, if selected, intends to carry on the business as (check one):

☒ **Individual** Limited Liability Company ☐ **Joint Venture**

☐ **Partnership**

☐ **Corporation**

We are a corporation... incorporated in California in 2012 as DHS Consulting, Inc. restructured in 2019 as Anser Advisory Management, LLC.

When incorporated? _____

In what state? _____

When authorized to do business in California? _____

☒ **Other (explain):**

Anser Advisory, LLC was created in California in 1996 as Simplus Management Company, then later restructured as a Delaware company in 2018. Anser Advisory Management, LLC was created in California in 2012 as DHS Consulting, later restructured as a California company in 2019. We are authorized to do business within the state of California, And can provide a certificate from the Secretary of State to attest to that.

ADDENDA

To assure that all Proposers have received each addendum, check the appropriate box(es) below. Failure to acknowledge receipt of an addendum/addenda may be considered an irregularity in the Proposal:

Addendum number(s) received: ☒ 1; ☒ 2; ☒ 3; ☐ 4; ☐ 5; ☐ 6;

Or, ☐ _____ **No Addendum/Addenda Were Received (check and initial).**

PROPOSER'S SIGNATURE

No proposal shall be accepted which has not been signed in ink in the appropriate space below:

By signing below, the submission of a proposal shall be deemed a representation and certification by the Proposer that they have investigated all aspects of the RFP, that they are aware of the applicable facts pertaining to the RFP process, its procedures and requirements, and they have read and understand the RFP. No request for modification of the proposal shall be considered after its submission on the grounds that the Proposer was not fully informed as to any fact or condition.



Secretary of State

Certificate of Status

I, SHIRLEY N. WEBER, PH.D., California Secretary of State, hereby certify:

Entity Name: ANSER ADVISORY MANAGEMENT, LLC
Entity No.: 201913710118
Registration Date: 05/29/2012
Entity Type: Limited Liability Company - CA
Formed In: CALIFORNIA
Status: Active

The above referenced entity is active on the Secretary of State's records and is authorized to exercise all its powers, rights and privileges in California.

This certificate relates to the status of the entity on the Secretary of State's records as of the date of this certificate and does not reflect documents that are pending review or other events that may impact status.

No information is available from this office regarding the financial condition, status of licenses, if any, business activities or practices of the entity.



IN WITNESS WHEREOF, I execute this certificate and affix the Great Seal of the State of California this day of August 13, 2024.

SHIRLEY N. WEBER, PH.D.
Secretary of State

Certificate No.: 237668940

To verify the issuance of this Certificate, use the Certificate No. above with the Secretary of State Certification Verification Search available at bizfileOnline.sos.ca.gov.

Attachment A – Proposer Information continued...

1. If Proposer is **INDIVIDUAL**, sign here

Date: _____

Proposer's Signature

Proposer's typed name and title

2. If Proposer is **PARTNERSHIP** or **JOINT VENTURE**; at least two (2) Partners shall sign here:

N/A

Partnership or Joint Venture Name (type or print)

Date: **N/A**

Member of the Partnership or Joint Venture signature

Date: **N/A**

Member of the Partnership or Joint Venture signature

3. If Proposer is a **CORPORATION**, the duly authorized officer shall sign as follows:

The undersigned certify that he/she is respectively:

N/A _____ and **N/A** _____
Signature Title

Of the corporation named below; that they are designated to sign the Proposal Cost Form by resolution (attach a certified copy, with corporate seal, if applicable, notarized as to its authenticity or Secretary's certificate of authorization) for and on behalf of the below named CORPORATION, and that they are authorized to execute same for and on behalf of said CORPORATION.

Anser Advisory Management, LLC

Corporation Name (type or print)

By: **N/A** _____ Date: **N/A** _____

Title: **N/A** _____

ATTACHMENT D
AFFIDAVIT CERTIFYING NO CONFLICTS OF INTEREST

The undersigned declares:

I am the Principal-in-Charge of Anser Advisory Management, LLC ("Proposer"), the party making the foregoing bid.

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, Bidder 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 Bidder will immediately notify SOCWA if it becomes aware of any such fact at a later date.

Any person executing this declaration on behalf of ~~NA~~ 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 08-22-24 [date], at Irvine [city], CA [state].

Signature: 

Title: Senior Vice President / Managing Director



ANSER
ADVISORY

Part of **Accenture**

Project Partners' Proposal



On-Call Project Management Services

Prepared for:

**South Orange County Wastewater
Authority**

August 22, 2024

Project Partners
23195 La Cadena Dr.
Suite 101
Laguna Hills, CA 92653
phone **949.852.9300**
fax **949.852.9322**



August 22, 2024

Jeannette Cotinola
Procurement/Contracts Manager
34156 Del Obispo Street
Dana Point, CA 92629

Re: Proposal for On-Call Project Management Services

Dear Ms. Cotinola,

Project Partners is pleased to submit our proposal to provide on-call project management services for South Orange County Wastewater Authority (SOCWA).

Over the past 26 years, we have made a name for ourselves providing contract staff to Southern California public agencies. We have a large pool of staff resources, allowing us to assist the Authority with its project management needs with highly qualified staff. We aim to demonstrate in this proposal why Project Partners should be your top choice, starting with these points:

Currently Providing Project Management Services to SOCWA: Project Partners has provided staff to SOCWA for nearly 10 years and continues to do so today. Project Partners was first brought on in 2015 and we have since provided numerous technical staff, including Senior Project Managers, to the Authority. As a result, our firm is very familiar with the Authority's processes, staff, and service area.

Seasoned Public Sector Engineers: Our proposed staff includes Brian Peck, the former Director of Engineering at SOCWA as well as Gary Conklin who is currently providing senior project management services at SOCWA. In addition, we are proposing several other retired public engineers, all with at least 20 years of experience. They are licensed civil engineers with the project management skills and wastewater experience needed to serve SOCWA. They are also ideal candidates for on-call, as-needed staff, given their flexible schedules. Last but not least, their technical expertise and communication skills translate to quickly jumping on any capital improvement project and contributing with little-to-no ramp-up time.

Expertise in Wastewater Services: Project Partners has a long history of delivering on-site staff augmentation services to wastewater agencies in Southern California. Furthermore, more than 80% of our clients are repeat clients, a strong testament to our ability to provide highly qualified as-needed staff. In the last 5 years alone, we have successfully secured over 50 contracts providing project management staff to various organizations.

Affordable Billing Rates: Cost savings is one area where Project Partners excels. Because we are specifically designed to provide civil engineering services to public agencies, we

operate differently from most consulting firms. Our focus on project management and technical services substantially reduces our overhead costs. In comparison, our competitors' rates are much higher, charging as much as 50% more. Selecting Project Partners translates to greater efficiency and significant cost savings for the Authority.

Compliance with CalPERS to Keep the Authority Compliant: With increasing annual audits, it is crucial to hire a firm that understands California labor law and has a comprehensive operations and client training program. We at Project Partners prioritize conforming with all CalPERS rules to help keep our clients compliant.

In conclusion, in today's ever-changing environment, predicting future staff requirements can be challenging. Choosing Project Partners will allow the Authority to utilize all their resources to their full capacity while also capitalizing on our senior staff expertise, benefiting from our knowledge of CalPERS, and saving through our cost-effective bill rates.

We are committed to complying with all terms and conditions of the RFP, and Mr. Kimo Look, P.E. will be the primary contact for any questions regarding this RFP response. He can be reached at (949) 852-9300 Ext. 103 or klook@projectpartners.com. We have read and received all RFP and addenda information. All information in the proposal is true and correct. The proposal shall remain valid for a period of no less than 120 days from the date of submittal.

We are eager to continue working with SOCWA by providing the same project management services that we currently provide to agencies in every county of Southern California. We are confident that we can deliver excellent results for the Authority, and we welcome any questions or clarifications you may have.

Sincerely,



Kimo Look, P.E.

Principal
Project Partners, Inc.



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Non-Collusion Affidavit
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David Rodriguez, P.E. - Resume

Brian Peck, P.E. - Resume
David Yang - Resume
Michael Fileccia, P.E. - Resume
Robert McVicker, P.E. - Resume
Steve Gao, P.E. - Resume



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Section 1

Identification of Responder

1 Identification of Responder

1.1 BACKGROUND

Established in 1996 as a California Corporation, Project Partners has quickly become a leading staff augmentation firm for many Southern California public agencies. Because of our specialization in project management and technical support staff, we are the go-to firm to solve peak workload issues and staff retirement dilemmas. Our proven ability to provide high quality CalPERS-compliant professionals at affordable rates has been a winning formula for decades.



1.2 WHY SELECT PROJECT PARTNERS?

Though there are a multitude of reasons to select Project Partners, here are a few distinct advantages we offer:

- **Excellent, Highly Experienced Staff with Decades of Proven Expertise**
- **Extensive History of Successfully Working With SOCWA**
- **Over 25 Years of History of Providing Contract Staff to Southern California Public Agencies**
- **Experts in Working with CalPERS and Keeping the Authority Compliant**
- **Cost-Effective Rates at a Fraction of Typical Consultant Rates**

All of these reasons will be explained in further detail throughout this proposal.

1.3 OFFICE LOCATION

We have a corporate office in Laguna Hills that operates from 8 am - 6 pm where 60 full-time/part-time staff work.

Kimo Look, the Principal, is the representative to contact if there are any questions regarding the proposal submittal. He can be reached at 949-852-9300 extension 103. The business address is 23195 La Cadena Drive, Suite 101, Laguna Hills, CA 92653.

1.4 SUMMARY

With a history of providing excellent, experienced civil engineers to public agencies in Southern California, Project Partners is ready and capable of providing the Authority with On-Call Project Management Services to help the Authority complete its projects on-time and under-budget.



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Section 2

Work Plan or Contract Administration

2 Work Plan or Contract Administration

2.1 UNDERSTANDING OF SERVICES

South Orange County Wastewater Authority is seeking qualified consultants to provide Project Management support.

Project Management duties include planning, coordinating, monitoring, and managing a project from the planning phase through design, construction, and final delivery. The Project Manager will acquire resources, coordinate team members and third-party contractors, lead meetings, and ensure timely completion within the budget. They will define objectives and ensure quality control throughout the project's life cycle. Below we will detail our approach to project management.

2.2 PROJECT MANAGEMENT

Our approach to effective project management starts with developing a Project Management Plan, which includes scope, schedule, and budget development, signed contracts, as well as kickoff and coordination meetings. The project management concepts for the duration of each task and the overall contract are then organized around a core framework of communication, coordination, thorough documentation, and quality control for each submittal on each task. This effort does not end until the record drawings are completed and filed.

Initial Meeting: An initial meeting will be held with the Authority to discuss reporting, tracking, and submittal procedures.

Understand the Proposed Project: Another first order of work will be for Project Partners to follow the protocol that is in place for the overall management of capital improvement projects. Our team has been intimately involved with capital improvement programs for various public agencies. We understand the critical issues that agencies face when managing such. We are committed to delivering quality infrastructure and facilities that are compatible with the Authority and community goals and standards.

Manage the Budget: Project Partners understands that unexpected costs may arise. Our seasoned retirees have the experience necessary to anticipate and plan

for any additional expenses. They will prioritize necessary purchases to ensure the project is completed within the Authority-approved budget.

Plan and Maintain the Schedule: Our team will familiarize themselves with all the moving parts and existing processes to provide realistic estimates. This will inform their planning and help them to avoid any bottlenecks. Once a schedule has been set, the project managers will coordinate with each team member, request regular updates, and make adjustments to maintain the schedule.

Team Communication: Our team members have excellent track records communicating with clients and stakeholders. Frequent communication and tracking of project progress is integral to our approach for any project. We will set up communication protocol with the Authority prior to commencing any work. Our goal is to keep the Authority informed as the plan review progresses. The Authority will be included in all revision communications and our recommendations will be coordinated with the Authority.

Resolve Issues: Drawing upon their decades of experience managing various projects, our project managers will step in to troubleshoot any conflicts or issues that come about. Whether it's a technical question or budgetary matter, they know how to address it so progress can be maintained, and the project can keep moving forward.

2.3 QUALITY CONTROL METHODOLOGY

At Project Partners, we apply the following approach to all our projects to ensure they are completed on time and within budget:

- **Dedicated Client Services** – At our small business corporation, our staff have direct experience completing project goals in the Scope of Services that the Authority requests.
- **Efficient Scheduling** – We prepare a detailed GANTT chart schedule of the tasks needed to complete the Scope and deliverables, making sure to leave sufficient time for client review, comments, and other client processes, as well as stakeholder communications, review, comment, and discussion.
- **Effective Communication** – When new information is discovered that affects the work, we immediately relay it to the client, and make decisions with the client on how to adjust the scope and schedule.
- **Constructive Feedback** – In order to maintain our high standard of work, we request feedback from the client mid- and post-project to identify where improvements can be made.

2.4 SUMMARY

To conclude, our firm is uniquely qualified and dedicated to continue serving SOCWA. With a history of providing excellent, experienced civil engineers to the Authority and numerous other public agencies in Southern California, we are the ideal firm to provide On-Call Project Management Services to SOCWA.



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Section 3

Experience and Technical Competence

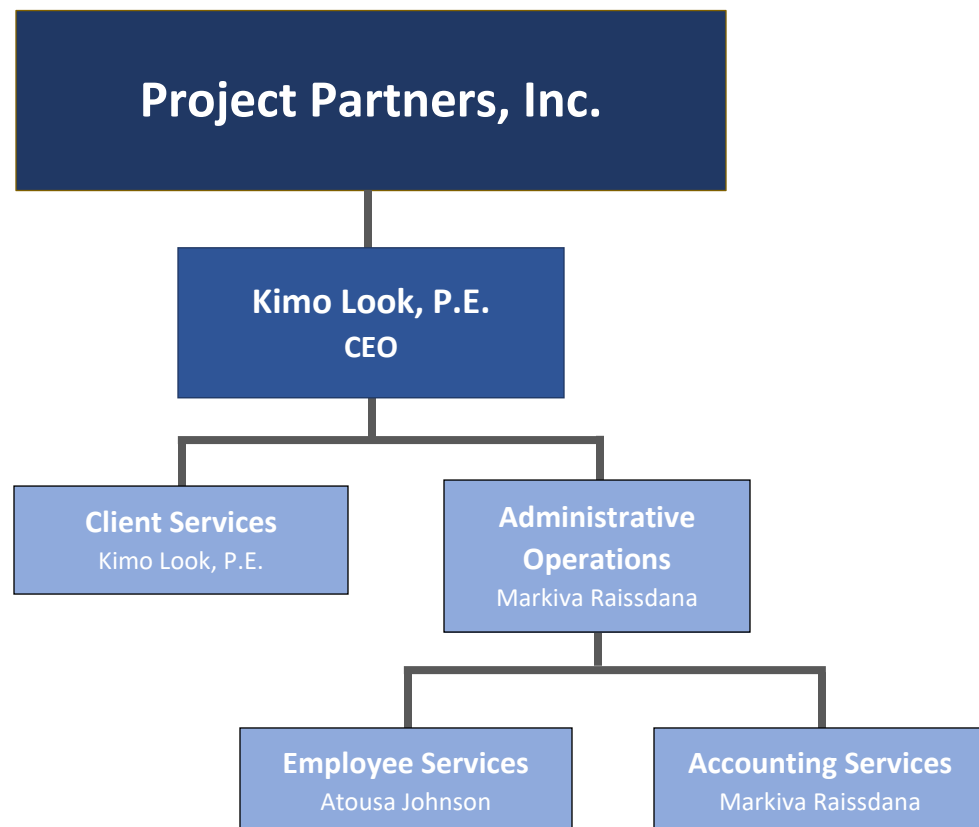
3 Experience and Technical Competence

3.1 FIRM EXPERIENCE AND HISTORY WITH SOCWA

Our firm has served SOCWA on several contracts throughout the past decade and our most recent contract for project management is ongoing. This long history is a testament to our ability to deliver the right solutions for the Authority. Additionally, Project Partners has been in business for over two decades and we are in a sound financial position. There are no bankruptcies, office closures, prior or pending litigations in our past or present, judgments, liens, federal or civil actions pending. There are no outstanding or pending complaints as determined by the Better Business Bureau or State of California Department of Consumer Affairs.

3.2 CORPORATE ORGANIZATION CHART

Our 60-person organization is a two-part structure, with Kimo Look as the Authority's designated Contact and our Administrative Team as further support.



3.3 PROVEN TRACK RECORD ON PUBLIC SECTOR CONTRACTS

Being a highly sought-after firm, we have provided this exact service through hundreds of contracts to agencies in every county in Southern California. In the last 5 years alone, we have fulfilled over 50 contracts with special districts for a total value of over ten million dollars. In the table below, we've presented a few of our most recent contracts.

3.4 LIST WITH ROLES

*Over 50 Contracts for Special Districts
Within the Last 5 Years*

#	Agency	Contract Title	Amount
1	Inland Empire Utilities Agency	Master Contract Engineering and CM Services	\$ 4,000,000
2	Western Municipal Water District	PSA -As-Needed Technical Support	\$ 1,485,000
3	Orange County Sanitation District	Temporary Employment Services	\$ 1,000,000
4	South Coast Water District	PSA - Project Management Support	\$ 794,000
5	Elsinore Valley Municipal Water District	PM/CM	\$ 660,000
6	West Basin Municipal Water District	PSA Temp Services Contract	\$ 625,000
7	Jurupa Community Services District	On-Call Professional Services Master Contract	\$ 450,000
8	Jurupa Community Services District	Senior Project Management Support	\$ 350,000
9	Eastern Municipal Water District	GIS Support Services	\$ 330,000
10	Water Replenishment District of S. CA	As Needed TEMP PSA	\$ 300,000
11	South Coast Water District	As Needed Project Management Support	\$ 300,000
11	South Coast Water District	PSA Consulting Service Agreement	\$ 270,000
12	Orange County Sanitation District	EIM CAD & GIS Support Services	\$ 211,000
13	South O.C. Wastewater Authority	Contract Engineering Services	\$ 194,700
14	Moulton Niguel Water District	x-connect inspection	\$ 134,000
15	San Diego County Water Authority	PSA Temp Services Contract	\$ 100,000
16	South Coast Water District	Project Management Support Contract	\$ 100,000
17	Eastern Municipal Water District	Wastewater Engineering Support Services	\$ 99,000
18	Central Basin Municipal Water District	Interim Engineering Manager	\$ 90,000
19	Eastern Municipal Water District	Water PM Support Services	\$ 90,000
20	LA County Sanitation Districts	Environmental Planning Support Svcs.	\$ 80,000
21	Yorba Linda Water District	Project Management Services	\$ 75,000

3.5 REFERENCES

Project Partners has an extensive history of providing effective and efficient temporary staff to public sectors throughout Southern California. In the table below, we have detailed five wastewater references from clients we have provided with the same project management services that SOCWA is currently seeking.

Agency	Contact Name, Phone, Email	Services Provided
South Orange County Wastewater Authority 34156 Del Obispo St. Dana Point, CA 92629	Roni Young Grant Associate Engineer rgrant@socwa.com (949) 234-5410	<ul style="list-style-type: none"> • Wastewater Project Management Support • Senior CIP Project Management Support • Construction Management Support • Sr. Plan Checking Support
Inland Empire Utilities Agency 6075 Kimball Ave Chino, CA 91710	Jerry Burke Director of Engineering jburke@ieua.org (909) 993-1548	<ul style="list-style-type: none"> • Planning Engineering Support • CIP Project Management Support • Recycled Water Inspection • CAD Design • Process Control Writing Support • Engineering Technician Support • Energy Management Analyst Support
Western Municipal Water District 14205 Meridian Parkway Riverside, CA 92518	Sonia Huff CIP Manager shuff@wmwd.com (951) 571-7232	<ul style="list-style-type: none"> • Water Planning Engineering Support • Wastewater Project Management Support • Senior Project Management Support • Project Management Development Services • Water Project Management Support • Engineering Technician Support
Eastern Municipal Water District 2270 Trumble Rd. Perris, CA 92572	Joe Mouawad General Manager mouawadj@emwd.org (951) 928-3777 ext. 4463	<ul style="list-style-type: none"> • Sr. Plan Checking Support • Senior CIP Project Management Support • Engineering Technician Support • GIS Analyst Support • GIS Technician Support
South Coast Water District 31592 West St. Laguna Beach, CA 92651	Marc Serna Assistant General Manager & Chief Engineer mserna@scwd.org (949) 499-4555	<ul style="list-style-type: none"> • Senior Water Project Management Support • Water CIP Design Engineering Support • Development Services Engineering Support



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Section 4

Proposed Innovations

4

Proposed Innovations

4.1 COMPETITIVE BILL RATES

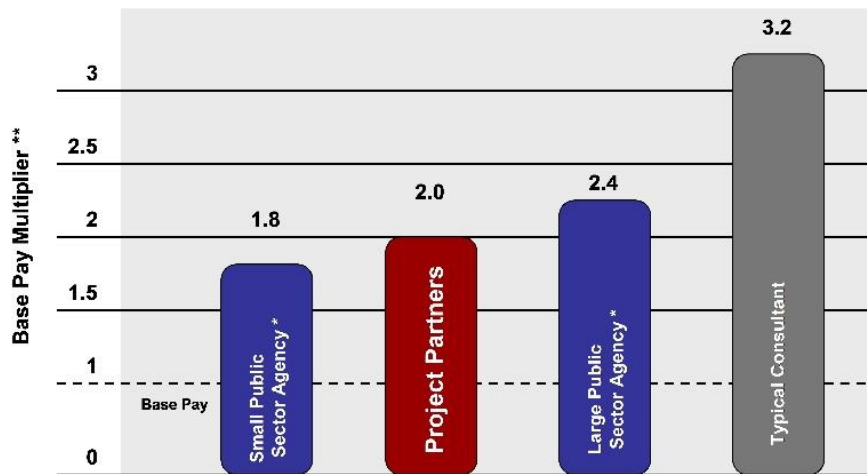
Project Partners is incredibly cost-effective in multiple regards. For one thing, Project Partners provides quality staff with not years, but decades of public sector experience. Our proposed staff includes skilled retirees that can fill many roles and complete a wide variety of tasks. We can ultimately complete a wide range of tasks needed by the Authority with fewer people and less cost.

Our rates are also a fraction of other consulting rates. Because we are specifically designed to provide staff augmentation, we operate differently from most consulting firms. We have a very efficient and focused operation, and therefore have substantially reduced overhead costs. In comparison, our competitors' rates are much higher, charging as much as 50% more than what you'd pay if you worked with Project Partners. Our cost-effective bill rates also make it easier to have additional staff hours should the need arise, a common occurrence with highly technical projects.



Based on our calculations, Project Partners' rates are also on par with public agency rates. We came to this conclusion by collecting the rates submitted by public agencies to grant funding organizations. These rates, established by the agencies themselves, encompass the comprehensive cost (including all associated expenses) for their employees. Essentially, this is equivalent to a public sector billing rate. As shown on the following graph, Project Partners offers very comparable billing rates.

**Project Partners Bill Rates are Comparable to
Public Sector Employee Cost**



* Data obtained from various grant funding documents

** The term Multiplier is the factor when multiplied by the base pay rate results in the total cost for a public sector employee or the billing rate for a consultant. The multiplier for Large and Small Public Sector agencies is the approximate average value.

4.2 CalPERS COMPLIANCE KEEPS THE AUTHORITY SAFE

As a provider of engineering staff to the public sector for over two decades, we understand the risks with contract project management programs with regard to CalPERS penalties and fines. Unlike design contracts where consultants are fully responsible for the design, our embedded staff work very closely with staff to jointly make project decisions. Therefore, CalPERS compliance is a much bigger issue than professional liability due to E&O.

Violating any of the myriad of CalPERS laws is a key concern for most Agency Risk Management Departments. This is particularly relevant today as CalPERS is increasing the number of audits it plans



to conduct annually. CalPERS has also stated that having augmented staff through a consulting firm, or even working remotely, does not automatically provide the desired protection. It mandated that if there is a common law relationship between the Authority and the augmented staff, then CalPERS rules apply.

Therefore, it is critical when implementing a contract project management program that (1) the Authority be in complete compliance with CalPERS rules and (2) it hires firms that have tried-and-true procedures to keep the Authority compliant. This is where Project Partners comes in. We offer a proven, workable solution for our clients:

- **Tracking Labor Laws** – There are a multitude of complex labor laws that public sector contract staffing falls under. Because these laws are dynamic, our firm aggressively tracks any changes and legal interpretations.
- **Adhering to Procedures** – Working with several labor law firms, we have developed comprehensive procedures for having contract staff in public organizations. These processes act as a guide for both contract staff and our clients to remain within compliance.
- **Understanding PEPPRA** – Public sector retirees offer great staffing solutions due to their years of experience, but agencies are affected by Public Employee Pension Reform Act (PEPPRA) regulations. We are well-versed in keeping both our retirees and clients safe under PEPPRA's limitations.
- **Documenting Compliance** – Our systems automatically identify and document proof of our staff following labor laws, including the specific areas where our clients and public agency partners are compliant. These documents are essential during CalPERS audits.

4.3 SUMMARY

To conclude, our firm is uniquely qualified and dedicated to serving the South Orange County Wastewater Authority. Project Partners is the clear choice for the Authority because: (1) we specialize in providing quality public sector staff with decades of public sector experience, (2) our staff is ready to hit the ground running with proven professional expertise in compliance with CalPERS rules and regulations and (3) we have a considerable track record and affordable consultant billing rates.

We appreciate your consideration and hope to provide our unique staff with a contract for On-Call Project Management Services to support the South Orange County Wastewater Authority.



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Section 5

Key Personnel and Sub-Consultants

5 Key Personnel and Sub-Consultants

5.1 OUR UNIQUE SOLUTION – PUBLIC RETIREES

All our proposed staff are public retirees with decades of Project Management experience. This experience allows them to seamlessly fuse with the Authority's multitude of projects and deliver successfully completed exceptional projects.

5.2 RETIREES WITH DECADES OF EXPERIENCE

Project Partners understands that retired public sector professionals are an extremely valuable resource to public organizations like yours. As a result, we have launched a unique and powerful tool to recruit public retirees to work for Project Partners. Through our website PublicRetireeJobs.com, we have attracted more public retirees than any other organization.

Why Our Retirees Are Invaluable:

Decades of Engineering Knowledge and Experience

Our staff has decades of public experience. It is that experience that gives them the ability to tackle the incredibly wide array of projects and problems that challenge engineering departments daily.

Effective from Day One

With a deep understanding of the public process and the ability to be effective problem solvers, our retirees can enter each role and become productive from day one.

Truly Flexible Resource

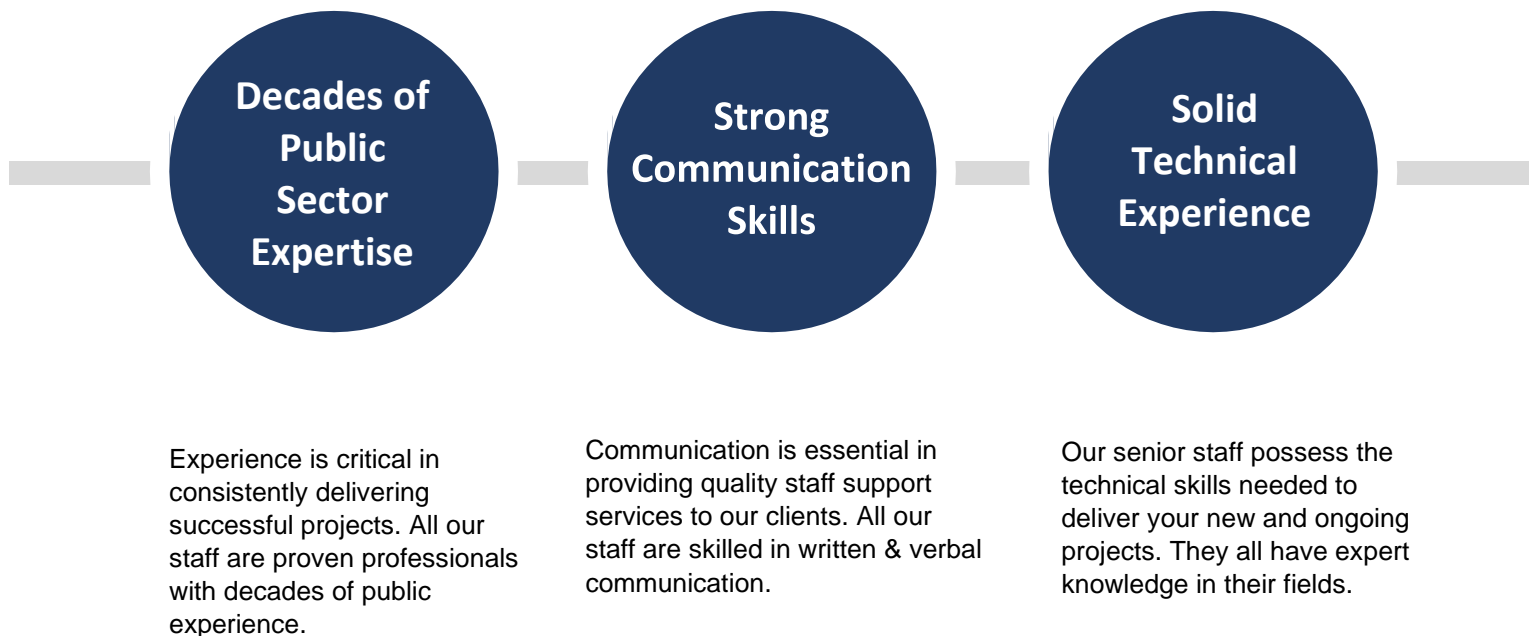
Our staff offer considerable flexibility with schedule and location. As retirees, they can truly be as-needed resource who can work when needed and be flexible in meeting workload fluctuations.

We know that strong, experienced staff makes successful engineering projects

happen. Our staff of public retirees have the experience, effectiveness, and flexibility to make your projects happen.

5.3 PUBLIC SECTOR EXPERTISE

Our staff of public retirees have the experience, communication skills, and expertise to make your projects happen.



In the following section, we will highlight our proposed staff's qualifications for project management services. Please note that individual resumes will not be included in this section for readability reasons but can be found in the appendix.

5.4 PROPOSED STAFF

We are confident that these individuals are the exact kind of staff that SOCWA is seeking. Below is a table that briefly highlights our proposed staff:

NAME	YRS. EXPERIENCE	NOTEWORTHY ATTRIBUTES	AVAILABILITY
SENIOR PROJECT MANAGERS			
GARY CONKLIN, P.E.	35+	Senior Project Manager Currently Working at SOCWA. Over 35 Years of Experience and 20 Years With Orange County Sanitation District. Extensive Experience in Project Management, Engineering Planning, and	Currently Assigned. Available Half Time

		Construction Management. Proficient in Pipelines, Pumping Stations, and Design.	
DAVID RODRIGUEZ, P.E.	29+	Senior Water Engineer With 29 Years Of Experience At Orange County Sanitation District. Extensive Experience In Wastewater Project Management, Mechanical Engineering, and O&M Engineering. Certified Construction Manager (CCM).	Currently Assigned. Available Half Time
BRIAN PECK, P.E.	38	Past Director of Engineering for 20 years at SOCWA. Extensive Experience with Water/Wastewater Treatment Plants and CIP projects. Proven Experience in Design, Construction, and Project Management.	Currently Assigned. Available Half Time
DAVID YANG	30+	Professional Engineering Experience in Water, Wastewater and Reclaimed Water Projects. Proven Experience in Engineering Design, Project Management, and Construction Management. Familiar With All Project Phases.	Currently Assigned. Available Half Time
MICHAEL FILECCIA, P.E.	40+	Extensive Experience In Management, Design, Construction, Operation And Maintenance of Water and Wastewater Facilities. 28 Years of Public Agency Experience and Over 17 Years With City of Anaheim.	Currently Assigned. Available Half Time
ROBERT MCVICKER, P.E.	35+	Extensive Water CIP Project Management Experience. Former District Engineer At Mesa Water District and Water Replenishment District Of Southern California. Former Principal Engineer at Irvine Ranch Water District.	Currently Assigned. Available Half Time
STEVE GAO, P.E.	35+	Senior Project Manager with Extensive Experience with Water, Reclaimed Water, Wastewater, and Other Capital Improvement Projects. Demonstrated Expertise in Entire Project Cycle: Planning, Design, Construction, and Operations.	Currently Assigned. Available Half Time

***Full resumes can be referred to in the appendix. Proposed key personnel will be available to the extent proposed for the duration of the project, acknowledging that no person designated as "key" to the contract shall be removed or replaced without the prior written concurrence of the Authority.**

5.5 SUMMARY

Project Partners is the ideal partner for SOCWA thanks to our expertise in providing public sector staff, decades-long track record of success, and our senior staff who specialize in the project management services the Authority is seeking.



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Section 6

Certifications

6

Certifications

6.1 STATEMENTS OF CERTIFICATION

We are 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 RFP.

We are willing and able to obtain all insurance required by the form contract included as Attachment C.

We have 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 that is the subject of this RFP and certify that the proposed pricing includes funds sufficient to allow Project Partners to comply with all applicable local, state, and federal laws or regulations governing the labor or services to be provided.

We acknowledge and agree with all terms and conditions stated in the RFP.

All information provided in connection with this proposal is true, complete and correct.

6.2 EXCEPTIONS

We have no exceptions to this RFP.



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Appendix

Forms & Resumes

ATTACHMENT D
AFFIDAVIT CERTIFYING NO CONFLICTS OF INTEREST

The undersigned declares:

I am the Principal of Project Partners ("Proposer"), the party making the foregoing bid.

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, Bidder 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 Bidder 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 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 08/15/24 [date], at Laguna Hills [city], CA [state].

Signature: 
Title: Principal

**ATTACHMENT B
NON-COLLUSION AFFIDAVIT**

The undersigned declares:

I am the Principal of Project Partners, 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 August 8, 2024, at Laguna Hills, CA.

Signature: _____
Title: Principal _____



Gary Conklin, P.E.

Project Level

Senior Project Manager

Qualifications

- *Senior Project Manager With Over 35 Years Of Experience*
- *20 Years With Orange County Sanitation District*
- *Extensive Experience In Project Management, Engineering Planning, And Construction Management*
- *Proficient In Pipelines, Pumping Stations, And Design*
- *Strong Written And Oral Communication Skills*
- *Team Player*

Work History

Project Partners, Assigned to SOCWA (2 years)
2022-present Project Manager

Orange County Sanitation District (20 years)
2020-present Senior Engineer, Engineering Design
2015-2020 Senior Engineer, Operations & Maintenance
2005-2014 Senior Engineer, Engineering Planning
2002-2005 Resident Engineer

City of San Juan Capistrano
2001-2002 Engineer, Water Capital Projects

RBF Consultants
1997-2001 Engineer, Water System Design, Construction Management

Trabuco Canyon Water District
1997-1997 Engineer

Steven Andrews Engineering
1995-1997 Engineer, Water System Design, Construction Management

New Horizons Computer Learning Center
1993-1995 Computer Training

Project Partners

Gary Conklin, P.E.

Senior Project Manager

Page 2

Self Employed

1991-1993 AutoCAD Drafting, Project Management

IWA Engineers

1990-1991 Engineer, Public Works Design

Keith Companies

1986-1990 Engineer, Land Development Design, Public Works Design

NBS/Lowry

1985-1986 Engineer, Public Works Design

Related Project Experience

Public Agency Engineering and Project Management

CTP (Coastal Treatment Plant)

Aux Blower Building Roof Repair: provided in-house design to remove mechanical piping and repair roof at SOCWA.

Primary and Secondary Grating Replacement: provided in-house design to rehabilitate walkway grating in the primary and secondary treatment area.

Drainage Pump Station: review consultant design study of a pump stations rehabilitation/replacement.

Personnel Building Rehab: reviewed consultant design. Preparing in-house design to rehabilitate underground sewer drains in the Personnel Building.

JBL (J.B. Latham Treatment Plant)

Scum Line Rehabilitation: provided in-house design to replace a corroded 12" DIP scum pipeline at SOCWA.

Digester Gas and Hot-Water Piping Bridge: preparing RFP for consultant services to provide a bridge from Digesters 1&2 to Digesters 3&4 to convey digester gas and hot-water piping over a vehicle access way.

ETM (Effluent Transmission Main)

ETM Air/Vac Replacement: review consultant submittals for air-vac replacement on the Effluent Transmission Main at SOCWA.

Sewer Repair at Bitter Point Pump Station

CIPP repair, Bypass pumping and major traffic control to repair sewer in Newport Beach along PCH. Caltrans encroachment permit, coordination with City of Newport Beach.

MacArthur Pump Station Valve Replacement

Design, Construction Management of a valve replacement project with FM bypass.

Project Partners

Gary Conklin, P.E.

Senior Project Manager

Page 3

Main Street Pump Station Valve Replacement

Design, Construction Management of a valve replacement project in an 80 mgd pump station.

Digesters 5 and 6 Concrete Walkway Repair

Construction management to repair concrete bridge between two digesters.

OCSD Plan 2 Reclaimed Water (GAP) System Pipeline Repair

Design, Specifications, Construction Management for pipeline repair.

OCSD Plant 1 Plant Water Pipeline Repair

Design, Specifications, Construction Management for pipeline repair.

OCSD Plant 2 Digesters E. F. H Roof Walkway Repairs

Design, Specifications, Construction Management for repair of walkway on steel digesters.

San Juan Capistrano SC04 Water Transmission Main, (City)

Managed Design Consultant (Project Engineer during final design stage).

Project: 5-mile water pipeline in San Juan Capistrano and Prima Deshecha Landfill.

Interconnection to SMWD facility at Ortega Highway and Antonio Parkway. Located in Caltrans right-of-way, County streets and landfill, SDGE and SCE easements, private land and open space. Reviewed plans for constructability. Environmental permits (CEQA and USFWS 4-d permit), supervised consultants, coordination with HOA, SDGE, and County of Orange.

San Juan Capistrano High West Side Pipeline, (RBF, City)

Design Engineer (at consulting firm), Project Engineer at City.

Project: Design for 3-mile water pipeline in San Juan Capistrano and Dana Point. Prepared plans and specifications (as consultant), coordinated with environmental consultants, South Coast Water District, and City of Dana Pt. Obtain easements from private landowners.

Pump Station Bypass Pumping Design and Implementation

Designed portable pumping bypass systems for 15 sewage lift stations. Established the engineering data (flow rates, pressure, lift, critical elevations), pump selection, layout, pipe sizing, connection mechanical design, standard equipment assemblies, conceptual designs. Implemented bypasses at several stations. (Rocky Point, Seal Beach, Crystal Cove, West Side, Bitter Point, MacArthur).

Public Agency O&M Engineering

Manage Operations Contracts

Budgeting, usage tracking, problem solving, coordination with vendors and staff. Ferric Chloride (\$3M), Grit and Screenings (\$500k), Cogen Facility Chemicals, Reclaimed Water, Potable Water.

Cogen Facility SOPS (Standard Operating Procedures)

Prepare 50 SOPs (Standard Operating Procedures) for two Cogen facilities (7.5 MW, 13 MW).

Project Partners

Gary Conklin, P.E.

Senior Project Manager

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High Flow Emergency Response Plan

Update hydraulic portion of in the OCSD High Flow Emergency Response Plan.

JAN 2017 Peak Flow Evaluation

Evaluated Outfall pumping hydraulics related to a 600 mgd peak flow event. The flow data (flow rate and outfall pressure) indicated the possibility of a leak in the 120-inch diameter Ocean Outfall.

Interagency Coordination: IRWD, OCWD

Coordination of interagency issues: facility cooperative repairs, interagency flow monitoring.

GWRs Expansion Planning

Evaluate collections system diversion opportunities for GWRs (water recycling) expansion.

Treatment Plant Energy Efficiency Audit

Oversee consultant audit that identified potential energy savings opportunities.

Carbon Canyon Odor and Pipeline Failure

Investigate the causes of odor issues and pipeline failure in the Carbon Canyon sewer. Recommend pipeline improvements to reduce solids deposition and subsequent odor issues.

Coyote Hills (Brea) Gold Course Odor Control Facility Concept Design

Field investigation and conceptual design of a chemical treatment facility for sewer odor control.

Trickling Filter Odor Investigation

Investigated air flow patterns through the trickling filters to identify potential odor control measures.

Engineering Planning

2009 OCSD Facilities Master Plan (2009)

Gary was responsible to produce the Master Plan for \$6B of wastewater collection and treatment facilities. He supervised the work of staff, did research, collected input, drafted the text, got consensus from senior staff, and made final presentation to Board of Directors.

OCSD Energy Master Plan (2007)

Supervised engineering consultant in this \$2M study of the treatment plant electrical power and heat systems. Issues included: possible replacement of 7.5 MW and 13 MW cogeneration facilities, diesel generators, air quality issues, UPS systems, heat recovery systems.

OCSD CIP Planning Studies Program Manager

Gary developed and managed the planning studies program for various focused studies needed for capital planning. Included program establishment, procurement, and project management.

Project Partners

Gary Conklin, P.E.

Senior Project Manager

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List of CIP Planning Studies	
Project Name/Status	Description
Knott Ave Sewer Rehab \$14,700 (Completed 2011)	Determine the cost to rehabilitate 5, 193 LF of 8 and 10-inch sewer.
54" BFV Replacement \$16,854 (Completed 2011)	Evaluate replacement options for 54" Butterfly Valve on the primary effluent pipeline system.
J-119 Ocean Outfall Beach Box Rehab \$99,021 (Completed 2011)	Evaluate rehabilitation options for a 40-year-old 120" ocean outfall vault adjacent to state beach, wildlife sanctuary, bike trail, Santa Ana River. Construction options: discharge through Short Outfall, hot-tap bypass on 120" outfall. Rehab options: pipe liner, carbon fiber wrap.
P1-111, PB 3A Standby Power \$49,983 (Completed 2012)	Clarify demands on the Power Building-3A diesel generators and evaluate options for load reduction, to avoid generator overloading. Evaluate power issues with the Digester Gas Compressor facility.
J-116, Primary Treatment Optimization \$385,000 (Completed 2012)	Evaluate performance of 160 MGD Primary Clarifier facility. Modeling, research, performance testing. Conceptual design to replace primary sludge pumps for sludge loading demands from wastewater influent concentration, and expansion of OCWD Groundwater Recharge System.
SP-145-1, Facility Safety Assessment \$630,696 Estimated 2012-2014	Safety assessment of two 100-acre treatment plants and 15 pump stations. Scope Elements: Develop safety standards; Inventory deficiencies; Risk Rating; Evaluate Alternatives; Cost Estimates; Implementation plan.
SP-150, UPS Study \$199,853 (Completed 2013)	Provide design standards, conceptual layout of, and implementation plan for a facility-wide UPS (Uninterruptible Power Supply) system for SCADA and Instrumentation equipment.
SP-137, Hydraulic Study	Hydraulic Study (InfoWorks model) of Plant 1 Primary Treatment process piping.

Construction Management

OCSD Primary Clarifiers 16-31 Construction (P1-37)

Assistant resident engineer for \$70M Wastewater Treatment facility expansion. RFI's, submittals, clarifications, change orders, payment requests, weekly meetings.

Caltrans Stormwater BMP Retrofit Pilot Studies (RBF)

This pilot program evaluated stormwater treatment technologies on Caltrans facilities in Los Angeles and San Diego in response to from environmental lawsuit (consent decree). The firm provided oversight for all 30 sites, and design and construction management of 10 sites. Gary was the Resident Engineer for six sites. He supervised inspectors and consultants, performed constructability reviews, RFI's, change orders, payments, claims negotiation, resolved technical issues, coordinated with Caltrans staff, and environmental stakeholders, and drafted a Lessons Learned report for all 30 sites.

Traffic Signal Interconnect Construction (RBF)

Construction management and inspection for 2 miles of 2" interconnect conduit in City of Lake Forest within major arterial streets, by directional boring.

City of Indio Water Storage and Distribution Facility (SAE)

Project: Construction of well, reservoir, pump station, electrical building, chlorine bldg. \$1.4 M Resident Engineer/Inspector, submittal review, progress reports, payment requests, engineering design, subconsultant (electrical) supervision.

Project Partners

Gary Conklin, P.E.

Senior Project Manager

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City of Lancaster Well Sites #48 and #49 (TKC)

Construction engineering support for two wells, a ground water recharge basin, a reservoir, and a pump station in Lancaster. Respond to requests for clarification, review shop drawings, design modifications, coordination with subconsultants and regulatory agencies.

MacArthur Pump Station Valve Replacement

Design, Construction Management of a valve replacement project with FM bypass.

Main Street Pump Station Valve Replacement

Design, Construction Management of a valve replacement project in an 80 mgd pump station.

Digesters 5 and 6 Concrete Walkway Repair

Construction management to repair concrete bridge between two digesters.

OCSD Plant 1 and 2 Reclaimed Water Pipeline Repair

Design, Specifications, Construction Management for pipeline repair.

OCSD Plant 2 Digesters E, F, and H Roof Walkway Repairs

Design, Specifications, Construction Management for repair of walkway on steel digesters.

Engineering Design at Consulting Firms

SMWD – Talega Domestic and Reclaimed Storage Study (RBF)

Siting study for a 4.0 MG reclaimed reservoir, 6.0 MG domestic reservoir, and 2,600 gpm pump station. Established reservoir volumes and pump station capacity, provided conceptual site plan and grading study for above-ground and below-ground reservoir alternatives.

San Juan Capistrano High West Side Pipeline, (RBF, City)

Designed for 3-mile water pipeline in San Juan Capistrano and Dana Point.

Dove Canyon Reclaimed Water Meters (SAE)

Surveying, design, inspection of two meters and vaults on 16" and 14" reclaimed water pipelines in Dove Canyon, Orange County.

Laband Ranch – 4.0 MG Reservoir Site (TKC)

Design Engineer for reservoir site design. Design involved site layout, hillside grading, water pipelines, an access road, storm drain, and connection to arterial highway.

Norwalk Reservoir, Pump Station and Well (RBF)

Design Engineer for the conceptual design of a 5.0 MG concrete hopper-bottom reservoir, 3,000 gpm well, 18 mgd booster pump station, disinfection facilities, and pipelines.

Tulare Sewer Pipe Failure Investigation (RBF)

Evaluated new 4,700 LF sewer line related to construction defect dispute. Gary's work included an analysis of sewer inspection videos, construction plans and specifications, inspection reports, soils reports, materials tests, and other information to determine the cause of the failure.

Project Partners

Gary Conklin, P.E.

Senior Project Manager

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Cathedral City – Assessment District 88-3 Improvements (TKC)

Project engineer for preparation of plans for \$12 million of water, sewer, and street improvements. Project involved three miles of street widening, with two miles being arterial highway. Responsible for schedule, budget, coordination with City staff, public relations.

Sewer Pipeline Rehabilitation – City of Beverly Hills (RBF)

Preliminary design for rehabilitation of 15,000 LF of sewer pipelines in downtown Beverly Hills.

Grand Avenue Arterial Highway – Chino Hills (TKC)

Design Engineer for two miles of major arterial highway in Chino Hills. Significant design features: arch culvert under-crossing, 66" storm drain, vertical design of intersections, and geotechnical constraints, including a landslide in an 80-foot high cut-slope.

Village Oaks Sewer Design (TKC)

Design Engineer for preparation of plans for sewer pipeline construction for the Village Oaks residential development in Chino Hills.

Marbella Irrigation Main (TKC)

Design Engineer for Marbella Reclaimed Water Main project. Prepared plans for a reclaimed water transmission pipeline in the City of San Juan Capistrano.

Education

BS California State University, Long Beach
Civil Engineering, 1985

Professional Certification

California Registration, Civil Engineering, RCE No. 43861, 1989



David Rodriguez, P.E.

Project Level

Senior Project Manager

Qualifications

- *Senior Project Manager With 29 Years Of Experience At Orange County Sanitation District*
- *Extensive Experience In Wastewater Project Management, Mechanical Engineering, and O&M Engineering*
- *Certified Construction Manager (CCM)*
- *Strong Written And Oral Communication Skills*

Relevant Experience

Project Partners (Jun 2023-Present)

Senior Water Project Manager, Assigned to Trabuco Canyon Water District (Aug 2023-Present)

- Field troubleshooting for O&M:
 - Mechanical field evaluation of water and wastewater process systems and equipment
 - Pump performance field testing
 - Mechanical field testing of equipment field inspections of Mechanical equipment and systems
- Senior Project Manager and Certified Construction Manager for projects:
 - MCC Panel & Electrical Duct Bank Design for Wastewater Treatment Plant Blower Building Project
 - Title 22 Permit for the Robinson Ranch Wastewater Treatment Project
 - Field Survey of Wastewater Treatment Plant for Buried Utilities for the New Electrical Duct Bank Project
 - New Handrailing and Kickplate for EQ Basin Modifications for the Robinson Ranch Wastewater Treatment Plant Project
 - Self-Cleaning Bar/Filter Screen Rehab Project for the Robinson Ranch Wastewater Treatment Plant Project
 - System-Wide Arc Flash and Coordination Study Project – under construction
 - Two New Blowers, Schneider VFDs, and the US Motors Project
 - New Fiber Optics, SCADA, Hardware, and software Upgrades Project
 - New MTS Switches and One Generator Tap Box project for 5 pump stations
 - Recycled Water Vault Modifications for the Golf Club Project
 - Recycled Water Vault Modifications for the HOA Project
 - SCADA Integrator Project

Project Partners

David Rodriguez, P.E.

Senior Project Manager

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- DWTP Vault Access Hatch and Concrete Riser Replacement Project
- Dove Recycled Water Booster Pump Station Rehab Project
- New Sump Pump #2 for the DWTP Project
- Generate RFP for Title 22 Engineering
- VFDs & PLC Panel Filter Replacement Project at Dove Canyon Recycled Water Booster Pump Station
- Coyote Flats V-Ditch As-builts Research Project

Senior Water Project Manager, Assigned to Yorba Linda Water District (Jun 2023-Dec 2023)

- Provide oversight to water and wastewater CIP Projects:
 - New Timber Ridge Booster Pump Station Project
 - Imperial Highway New Waterline Project
 - Mountain View New Waterline Project
 - Burlington Northern Santa Fe (BNSF) Crossing Vets Village Way Jack & Bore Water Project
 - Main Street Sewer Rehab. Project
 - Green Crest Sewage Lift Station Rehab Project
 - Lower Hidden Hills Pressure Reducing System Project
 - Hidden Hills Booster Pump Station Improvements Project
 - Elk Mountain Drive Booster Pump Station Task
 - Fairmont Reservoir Rehabilitation Task
 - Yorba Linda Water District Ten-Year Master CIP Plan Task
 - Review of all Pump Wells to be retrofitted with VFDs Task
- Review and answer RFIs; review and approve progress payments; review submittals
- Hold weekly progress meetings
- Review three-week project look ahead schedules and baseline schedules; review Change Orders, Claims; review and approve inspector's daily reports
- Generate SOW and RFPs for both Projects and service contracts.
- Mentor younger engineering staff and provide technical recommendations to the engineering manager and O&M field staff and supervision
- Review of DigAlert tickets and field marking of buried utilities prior to excavation

Senior Asset Engineer, Assigned to Inland Empire Utilities Agency (Nov 2023-Present)

- Senior Asset Engineer for projects:
 - Condition assessment project for the collection waste station and brine line
 - Agencywide Asset Hierarchy RFP Project
 - Technical service of new technologies: RedZone robotics, PFAS Removal Technology, RP-1 Boilers Hot water, RP-1 boilers Hot Water Pipe Installation Rebate Funds
 - Inland Empire Regional Composting Facility (IERCF)
 - O&M Manual Reviews
 - Review and Submit a Formal Report on the IEDU's Asst Management Plan vs. OCSAN's Assess
 - Research study on the feasibility of converting three existing centrifuges at a cost of 1.5 million dollars from mechanical drives to hydraulic drives

Project Partners

David Rodriguez, P.E.

Senior Project Manager

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Orange County Sanitation District, Fountain Valley, CA (1994-2023, Retired)

Project Manager/Lead Technical Advisor, Engineering Department (2006-2023)

- Responsible for Project Management of complex projects from new to rehabilitating existing facilities, equipment, and plant process areas with budgets ranging from
- \$500k to \$10M for public works Capital Improvement Projects.
- Responsible for developing projects' Scope of Work, technical specifications, plans, schedules, estimates, budgets, and weekly project status update reports.
- Responsible for processing field change orders, requests for changes, change orders, and all negotiations associated with the project contract.
- Served as Expert Witness in providing technical expertise on an Emissions Control Variance Petition for a 2.5 megawatts Resource Recovery System No. 1 and testified in front of the South Coast Air Quality Management District.
- Responsible Project Manager, Subject Matter Expert, and team lead engineer on a 4.5 M dollar insurance claim for a 3,500 HP, 12-cylinder Cooper Bessemer Gas Driver Engine failure.
- Responsible as lead subject matter expert to O&M upper management, supervision, and senior staff. Regarding new and proposed rehabilitation projects, construction projects, and permitting projects.
- Responsible for identifying project team members and providing leadership, mentorship, and direction; ensuring compliance with contract documents and regulatory permits; monitoring the project schedules; ensuring compliance with plans & specifications; working with outside cities and agencies for permitting requirements; obtaining permits.
- Responsible for approving materials and equipment for installation per the Contract, Technical Specifications Documents, and processing purchase orders

Lead Resident Engineer (2001-2006)

- Lead Resident Engineer responsible for complex and large construction projects for their satisfactory performance to the end-user or customer for the O&M Department.
- This entailed the interpretation of Contracts, Plans, and Technical Specifications and ensuring the project's overall Project complex project management to its final contract completion.
- Responsible for approving materials and equipment installed per the Contract and Technical Specifications Documents.
- Responsible for safeguarding the interests of the Districts and its various District-wide stakeholders.
- Reviewed Contractors' monthly project schedules, progress payments, negotiations of Change Orders, kept accurate records, and prepared reports detailing the status of construction progress and meetings with management and Contracts Administration.

Lead Mechanical Engineer (1997-2001)

- Responsible for the daily operations and maintenance of all occupied buildings and process facilities for two treatment plants, 16 outlying pump stations, and associated wastewater collection system.
- Lead Mechanical Engineer Responsible for providing mechanical engineering technical support and research to O&M's Mechanical Maintenance Division managers, supervisors, and field staff.

Project Partners

David Rodriguez, P.E.

Senior Project Manager

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- Design analysis, design review, and design support for engineering review and approval of CIP Projects.
- Reviewed design submittals; generated scopes of work for new mechanical equipment; repaired existing and maintenance-related projects.
- Lead Mechanical Engineer with project team members to ensure all are familiar with the various technical aspects of the project. Also, provided supervision and work direction to outside engineering consultants.

Lead Facilities Engineer (1994-1997)

- Responsible for providing technical input on solutions to critical issues with plant facility operations and pump stations identified during startup and commissioning phases to upper management, supervision, contractors, and consulting engineers.
- Lead Facilities Engineer responsible for occupied buildings & unoccupied plant process areas facilities, & outlying pump stations for new improvements, & rehab. Construction projects.
- Responsible for technical support to all exterior green spaces, from water irrigation systems to landscaping maintenance & modifications to existing green spaces.
- Responsible for fire suppression systems and maintenance, including all life safety systems for occupied & unoccupied facilities.
- Responsible for occupied and unoccupied facilities elevators, maintenance, and modernization of elevators to meet all current building, mechanical, electrical, fire, and ADA regulations & codes.

Other Relevant Experience

Santiago Canyon College, Orange, CA (2013-Present)

Adjunct Professor

- Responsible for teaching & educating students in water & wastewater technology & Public Works Programs for entry into the industry and professional growth.
- Lecture in applying theories & technical concepts in the following introduction and upper-level courses at Santiago Canyon College: Wastewater Operator Exam Review Course 048, Water Mathematics and Hydraulics Course 050, Water Utility Maintenance and Construction Course 060, Pumps and Pumping Course 064, Fundamentals of Stormwater Management Course 068, Electrical Wiring & Controls Course 063, Wastewater Advanced Treatment Course 082, Advanced Wastewater Treatment Course 082, and Collection Systems Course 083.
- Responsible for updating all Technical Water Mathematics & Hydraulics Textbooks for current water mathematics classes.
- Prepares students for California Water Environmental Association (CWEA) Certifications in Mechanical Technologist Grades I-IV and Collection System Technologist Grades I-IV.

Education

MS California State University, Fullerton
Fluid Mechanics and Thermodynamics Sciences, 2005

Project Partners

David Rodriguez, P.E.

Senior Project Manager

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BS California State Polytechnic University, Pomona
Mechanical Engineering, 1996

Professional Certification

- Registered as a Professional Mechanical Engineer in the State of California, License No.: 32128
- Certified Construction Manager from Construction Manager Certification Institute, Certification No.: A1326
- Certified in NASSCO Pipe Assessment from NASSCO Certification Program, Certification No.: U-205-1744
- Certified in NASSCO Manhole Rehabilitation from NASSCO Certification Program, Certification No.: U-205-1744
- Certified in OSHA Construction Safety Training Certification No.: 000232996
- Certified in Applied Techniques in Failure Analysis from ASM International
- Certified in HVAC - Psychometrics & Load Calculations from University of Wisconsin College of Engineering
- Certified in Basic Corrosion from NACE National Association of Corrosion Engineers
- Certified in Protective Coatings Specialist PCS1 from NACE National Association of Corrosion Engineers
- Certified in Collection System Technologist Grade-IV from California Water Environmental Association (CWEA), Certification No.: 1308211124
- Certified in Mechanical Technologist Grade-IV from California Water Environmental Association (CWEA), Certification No.: 1308211107
- Certified in Vibration Analyst Category-I from Mobius Institute, Certification No.: M-6305-01
- Certified in Teaching Online College Courses at Santiago Canyon College, Date Issued: 2014

Professional Skills

- Project Management
- Quality Assurance and Control
- O&M Process and Procedures
- Construction Management



Brian Peck, P.E.

Project Level

Senior Project Manager

Qualifications

- *Director of Engineering With Over 20 Years at South Orange County Wastewater Authority*
- *Extensive Experience Water/Wastewater Treatment and other CIP Projects*
- *Proven Project Manager and Water System Engineer*
- *Strong Written And Oral Communication Skills*
- *Team Player*

Relevant Experience and Professional Accomplishments

- SOCWA Latham Treatment Plant Aeration Upgrade [2016]: Thirty year old aeration system replaced utilizing high efficiency turbo blower drawing power from a reconstructed co-generation system that earned a \$0.9 million SGIP Grant.
- SOCWA Coastal Treatment Plant Export Sludge Equalization Basin [2013]: Design-build project completed in 18 months to secure a State of California Proposition 50 Grant for \$2.8 million.
- SOCWA Regional Treatment Plant Headworks Upgrade [2010]: Headworks reconstructed along with new building roof without a single noise or odor complaint.
- SOCWA J. B. Latham Treatment Plant 1 Switchgear Replacement [2009]: Original switchgear located in area prone to flooding with 480 volt conduits vulnerable to high groundwater. New facility constructed above flood zone.
- SOCWA Conversion from Gaseous Chlorine [2007 and 2015]: Conversion of the last two treatment facilities from chlorine to sodium hypochlorite.
- Village of Ruidoso (New Mexico) Grindstone Water Supply Project [1994]: A severe water shortage was addressed through the construction of a 1 mgd water treatment plant. Mr. Peck was the Project Engineer for the design and construction which took place over a 13 month span.
- City of Phoenix/City of Mesa (Arizona) Val Vista Water Treatment Plant Upgrade [1989-1993]. Mr. Peck served as the Project Engineer for design and then the on-site Assistant Resident Engineer for a \$30 million construction project.

Project Partners

Brian Peck, P.E.

Summary of Qualifications

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Education

San Diego State University, Certificate in Construction Management, 2018

Arizona State University, Certificate in Hazardous Materials and Waste Management, 1996

MS University of Illinois
 Environmental Engineering, 1985

BS University of Illinois
 Civil Engineering, 1983

Professional License

- Professional Engineer/Civil Engineer: California C 42765
- Arizona 25252

Work History

South Orange County Wastewater Authority (SOCWA), Dana Point, CA (2000-2020)
Director of Engineering

Carollo Engineers
Santa Ana, CA; Associate (1995-2000)
Phoenix, AZ; Associate (1992-1995)
Phoenix, AZ; Project Engineer (1986-1992)

Greeley and Hansen, Phoenix, AZ; (1985-1986)
Engineer

Professional Affiliation

- Water Environment Federation
- California Water Environment Association
- Arizona Water Association
- American Society of Civil Engineers
- American Water Works Association
- California Water Environment Association (CWEA) Director/WEF Delegate (2018 – 2021)
- California Water Environment Association (CWEA) Annual Conference Co-Chair (2019)
- California Water Environment Association (CWEA) Engineering and Research Committee (2010 – 2016) Secretary, Vice-Chair, Chair and Past Chair
- Santa Ana River Basin Section (SARBS) of CWEA Treasurer, Vice-President, President, Past President (2005 -2010)
- Water Environment Federation (WEF), Local Arrangements Chair, 2003 WEF Annual Conference and Expo (2002-2003)
- SARBS, Committee Member, Professional Development Committee (PDC) (2000 to Current)

Project Partners

Brian Peck, P.E.

Summary of Qualifications

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- Tri-State Seminar Treasurer (1998-1999; 2002-2003)
- Tri-State Seminar Program Committee Chair (1994 -1997; 2001; 2005)
- Arizona Water Pollution Control Association (AWPCA) Director (1993 – 1996)
- AWPCA Annual Conference Program Chair (1993)
- AWPCA Newsletter Editor (1992 – 1994)
- AWPCA Training Committee (1986 – 1995)

Publications

- “Water Treatment Plant Design” – 3rd Edition (1997) McGraw-Hill – Residuals Processing Chapter
- AWWA Annual Conference Proceedings (1997), “Testing the Sands: The Development of a Filter Surveillance Program”
- “Technology Transfer Handbook: Management of Water Treatment Plant Residuals” (1996) ASCE/AWWA – Chapters 1 and 4
- AWWA/WEF Joint Residuals Conference Proceedings (1993), “A Case History at the Val Vista Water Treatment Plant: Implementing A Used Water Recovery System”
- AWWA Annual Conference Proceedings (1993), “Upgrading A Water Treatment Plant To Meet SDWA and Code Requirements”

Awards

- CWEA President’s Award (2019)
- Santa Ana River Basin Section Achievement Award (2007)
- Sanitary Society of Select Sludge Shovelers, California (2005)
- Big Bend Canoe Club, Tri-State Seminar Service Award (2003)
- Sanitary Society of Select Sludge Shovelers, Arizona (1993)
- American Society of Civil Engineers Service Award (1983)
- Ira O. Baker Award, 2nd Place Academic Achievement – University of Illinois (1983)

Other Outside Activities

- AYSO Youth Soccer Referee (1998 – 2007)
- Tae Kwon Do 1st Dan Black Belt and Belt Testing Judge (2005 – 2011)
- Founder and Manager, Capistrano United Coyotes High School Ice Hockey Team – ADHSHL Varsity Champions (2013 - 2014)
- Manager, Orange County Hockey Club Midget 16AA Ice Hockey Team – California State Champions (2015 - 2016)



David Yang

Project Level

Senior Project Manager

Qualifications

- *Over 30 Years Professional Engineering Experience In Wastewater, Water, And Reclaimed Water Projects*
- *Proven Experience In Engineering Design, Project Management, And Construction Management*
- *Familiar With All Project Phases, Feasibility Studies, Preliminary And Detail Design, Permitting, Construction, Start-Up, And Operations*
- *Strong Communication Skills*
- *Team Player*

Specific Experience includes

- *Project Management And Administration*
- *Budget Control And Monitoring*
- *Project Quality Control / Quality Assurance*
- *Preliminary And Detail Engineering Of Various Water And Wastewater System*
- *Assistance During Bidding And Bid Evaluation*
- *Construction Management*
- *Shop Drawing Submittal Review*
- *Response To Contractors RFCs*
- *Participation In Start Up And Equipment Performance Testing.*

Related Project Experience

Wastewater Projects

Joint Regional Treatment Plant Aeration System Upgrade, South Orange County Wastewater Authority—Project Manage/Lead Mechanical Engineer. Mr. Yang was responsible for project management, quality assurance/quality control, preliminary and detail design of aeration air system upgrade and prepare equipment pre-purchased procurement document. It consisted of a 400 HP single stage centrifugal and two 300 HP multistage centrifugal blowers, fine bubble membrane panels, duplex instrumentation air

Project Partners

David Yang

Senior Project Manager

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system, building ventilation system, aeration air and instrumentation air piping system, acoustical treatment system, building plumbing and miscellaneous in-plant piping modifications.

J. B. Latham Wastewater Treatment Plant Solids Dewatering facility Upgrade, South Orange County Wastewater Authority—Project manager/Lead Mechanical Engineer. Mr. Yang was responsible for project management, quality assurance/quality control, preliminary and detail design of sludge dewatering facility upgrade and prepare pre-purchased equipment procurement document. It consisted of solids dewatering centrifuges, screw conveyors, diverter gates, polymer storage and feed system, air gap water system, truck scales, foul air exhaust and fresh air supply system improvements, and building plumbing modifications. He also performed construction management duties during the project construction phase including bid evaluation, shop drawing review, response to Contractor's clarifications, prepare addendum and performed site inspection as required.

Regional Plant No.1 Aeration System Upgrade, Inland Empire Utilities Agency—Project Engineer/Lead Mechanical Engineer. Mr. Yang was responsible for detail design of aeration system upgrade and prepare pre-purchased equipment procurement document. It consisted of four 500 HP single stage centrifugal aeration blowers, fine bubble membrane panels, duplex instrumentation air system, aeration and instrumentation air piping system, building ventilation and air conditioning system, building plumbing system and miscellaneous in-plant piping modifications. He also performed construction management duties during the project construction phase including bid evaluation, shop drawing review, response to Contractor's clarifications, prepare addendum and performed site inspection as required.

Odor Scrubber Replacement, South Orange County Wastewater Authority —Project Engineer/Lead Mechanical Engineer. Mr. Yang was responsible for detail design of odor scrubber replacement project. It consisted of demolition of existing packed media type scrubber, addition of multistage upright odor scrubber and associated foul air exhaust fans, foul air ductwork system modifications, chemical storage and feed system, and miscellaneous headwork building foul air/supply air system improvements.

Grit Removal System, Orange County Sanitation District—Project Manager/Lead Mechanical Engineer. This project involved demolition of existing screw type grit collectors, detail design of non-metallic chain and flight grit collectors and addition of pneumatic operated knife gate valves. Also performed shop drawings review and response to Contractor's request for clarifications.

Plant No. 1 and No. 2 Distribution Boxes Modifications for Odor Control, Orange County Sanitation District—Project manager/Lead Mechanical Engineer. This project involved a detail design of existing distribution boxes and junction boxes odor control ductwork system and scrubber modifications, and miscellaneous structural rehabilitation work to the junction boxes. Also provided assistance during construction service by review shop drawings, attend progress meetings, response to Contractor's request for clarifications and prepare addendum as required.

Project Partners

David Yang

Senior Project Manager

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Plant Utilities rehabilitation and Refurbishment, Orange County Sanitation District—

Project Engineer/Lead Mechanical Engineer. Mr. Yang was responsible for project management, and preliminary and detail designing rehabilitation and refurbishment of utility system at Plant No. 1 and No. 2. The key elements of the project consisted of steam line replacement in pipe tunnel, plant water and reclaimed water conversions, plant water pump station modifications, addition of plant water back-up pump station, digester gas holder improvements, chemical stations upgrade, and completion of reclaimed water loop at Plant No. 2.

Regional Plant No. 1 Digester System Improvement Heat Supply System, Chino

Basin Municipal Water District—Project Engineer/Lead Mechanical Engineer. Mr. Yang was responsible for detail design of digester heating system improvements. It consisted of two 100 hp hot water boilers that combust either digester gas or natural gas, two constant speed primary loop hot water pumps, three variable speed secondary loop hot water pumps, pre-insulated hot water piping system and other hydraulic system specialties.

Capistrano Beach Water District, Victoria Pumping Station and Force Main—Project Manager/Lead Mechanical Engineer. Mr. Yang was responsible for project management, preliminary and detail design of a 4 MGD sewage lift station. It consisted of vertical non-clog sewage pumps with close-coupled submersible motors, distribution pipelines, variable frequency drives, diesel fuel standby generator, odor control facility, monorail hoist and associated building ventilation and plumbing system.

Rialto Wastewater Treatment Plant Interim Upgrade, City of Rialto—Project Engineer/Lead Mechanical Engineer/Construction Manager. Mr. Yang was responsible for project management, and preliminary and detailed design of an anaerobic digester and energy recovery system facility. It consisted of hot water boiler, digester gas mixing system, gas compressor, gas purifier, gas engine driven aeration blowers, sludge heat exchanger, chemical storage and feed system and waste gas burner. He also performed construction management duties during the project's construction phase including bid evaluation, factory inspection during equipment testing, start-up and performance testing, construction schedule and budget monitoring, shop drawing review and change order evaluation.

Water Reclamation Treatment Facilities, West Basin Municipal Water District—Staff Mechanical Engineer. As part of the design team, Mr. Yang was involved in designing a 5-mgd RO membrane system consisting of multi-pass RO trains, membrane feed pumps, control facility, cartridge prefilter, chemical feed system and cleaning solution system. Additional responsibilities included design of 3,450 Hp Title 22 reclaimed water and 350 Hp barrier water pumping stations, and chemical storage and feed systems and associated building HVAC and plumbing system.

Sunnymead Wastewater Treatment Plant, Eastern Municipal Water District—Staff Mechanical Engineer. As part of the design team, Mr. Yang was responsible for designing the rag and grit removal facilities, RAS and WAS pumping station, effluent pumping station, aeration air blower system, multimedia filtration system, chemical storage and feed system, and building ventilation and plumbing system.

Project Partners

David Yang

Senior Project Manager

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Michelson Wastewater Treatment Plant Upgrade, Irvine Ranch Water District—Staff Mechanical Engineer. As part of the design/build project team, Mr. Yang was responsible for the preliminary and detailed design of four 500 HP single stage centrifugal blowers, rehabilitation of existing scum and sludge pumping system, motor operated scum troughs and modification of existing chain and flight primary sludge collection system.

Backriver Wastewater Treatment Plant and Patapsco Wastewater Treatment, City of Baltimore—Staff Mechanical Engineer. This project involved design of one-ton chlorine cylinders, weight scales, chlorinators, automatic switchcover system, exhaust fans, alarm system, centrifugal pumps, ejector, and associated appurtenances.

City of Baltimore, Main Street Lift Station—Staff Mechanical Engineer. As part of the design team, Mr. Yang was responsible for preliminary and detailed design of a 5 mgd sewage lift station. The project included mechanically cleaned bar screens, vertical non-clog sewage pumps with extended shafts, screening grinders, bridge crane and associated building HVAC and plumbing system.

Washington Suburban Sanitation District, F Street Lift Station—Lead Mechanical Engineer. Mr. Yang was responsible for preliminary and detailed design of a 2 mgd lift station. The project included vertical non-clog pumps with extended shafts, diesel fuel standby generator, bridge crane and associated building HVAC and plumbing system.

City of Huntington Beach, Peck Reservoir Pumping Station Upgrade—Lead Mechanical Engineer. The project involved designing a 2,600 gpm natural gas engine driven vertical turbine pump combination gear drive suitable for electric motor operation during off-peak hours, LPG storage and feed backup facilities, and miscellaneous piping and plumbing modifications.

City of Burbank, Reclaimed Water System, Preliminary Study—Staff Mechanical Engineer. Mr. Yang was responsible for preliminary design of two reclaimed water booster pumping stations. Each station consisted of three 2,500 gpm vertical turbine can pump, and two pumping units are driven by a natural gas fuel engine through a right angle gear drive. The standby LPG storage tank and feed system, surge protection device, building ventilation and plumbing consideration were also included in the study.

Water Projects

Electric Street Well Head Treatment, City of Riverside—Lead Mechanical Engineer. Mr. Yang was responsible for designing a GAC pressure filtration system, and upgrading the existing chlorine gas dosing system. The filtration system consisted of 10 pressure filters, underdrains, inlet distributors/backwash collectors, automatic control valves, backwash waste storage tank and associated pumping units, effluent and backwash rate of flow controllers, and associated instrumentation and controls.

City of Huntington Beach, Peck Reservoir Pumping Station Upgrade—Lead Mechanical Engineer. The project involved designing a 2,600 gpm natural gas engine driven vertical turbine pump combination gear drive suitable for electric motor operation

Project Partners

David Yang

Senior Project Manager

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during off-peak hours, LPG storage and feed backup facilities, and miscellaneous piping and plumbing modifications.

Wetland Demonstration Project, Eastern Municipal Water District—Lead Mechanical Engineer. Mr. Yang was responsible for detailed design of an effluent pumping station consisting of four 1,000 gpm vertical turbine pumps using VFD controls to modulate effluent discharge to the storm drain.

Well Head No. 2 and No. 4 Treatment, Foothill Municipal Water District—Lead Mechanical Engineer. This project involved designing two 1,200 gpm deep well pumps, a packaged air stripping packed tower designed to remove PCE and TCE contaminants; and associated valves, meters and piping system.

Chuckawalla Water Treatment Plant Improvement, California State Prison —Lead Mechanical Engineer. This project included rehabilitation of three existing RO trains (3.0-mgd capacity) by replacing membrane feed pumps, modifying the brine and RO permeate manifold, replacing the chemical cleaning system and replacing flow control valves. The membrane microfiltration (MF) system consisted of two 1.5-mgd membrane units, air supply system, backwash tank, membrane chemical cleaning and dosing system, associated booster pumps, and associated plumbing system. He also provided the design of a Jel Cleer pressure filter system as an alternate to the MF system. The pressure filter system consisted of 8 pressure filters, underdrains, inlet distributor/backwash collectors, surface wash agitators, automatic control valves, effluent and backwash rate of flow controllers and associated instrumentation and controls.

Lester Water Treatment Plant, City of Corona—Staff Mechanical Engineer. Prepared a preliminary design for expansion of an existing one-ton cylinder chlorine gas storage and feed system.

Linda Vista/Olive Hill Pumping Station and Pipelines, City of Anaheim—Construction Manager. Performed construction management services for bid evaluation, field inspection, plant start-up and pipeline performance testing. Monitored construction schedules and budgets, shop drawing review and change order evaluation.

Simpson Pumping Station, Eastern Municipal Water District—Lead Mechanical Engineer. Mr. Yang prepared preliminary and detailed design of a potable water booster pumping station. This job consisted of four 6,700 gpm and one 2,500 gpm vertical turbine can pumps, sodium hypochlorite storage and feed system and ventilation system.

Zone B Pumping Station, Irvine Ranch Water District—Lead Mechanical Engineer. This project involved a reclaimed water pumping station design consisting of four 2,000 gpm vertical turbine can pumps using VFD controls and associated building HVAC and plumbing system.

La Palma Station, City of Anaheim—Lead Mechanical Engineer. Mr. Yang was responsible for preliminary and detailed design of a potable water pumping station consisting of eight 1,500 gpm pumps for 335 Zone service, eight 2,000 gpm pumps for 220

Project Partners

David Yang
Senior Project Manager
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Zone service, LPG storage and feed facilities, and sodium hypochlorite storage and feed system.

Kraemer Basin, Miller Basin and Anaheim Lake Pumping Stations, Orange County Water District—Lead Mechanical Engineer. Mr. Yang was responsible for design and construction management of three pumping stations. They consisted of four 22,400 gpm pumps, three 9,000 gpm pumps, and two 35,100 gpm pumps, respectively.

Rapid Infiltration and Extraction Facilities, SAWPA—Lead Mechanical Engineer. Mr. Yang prepared preliminary and final design of 32 well pumps using VFD drives, chemical storage and feed facilities and operation building fire protection, HVAC and plumbing system.

Fairview ASR Well Facility, Calleguas Water District—Lead Mechanical Engineer. This project involved designing a 2,500 gpm deep well vertical turbine pump using aquifer storage and recovery technology to generate electricity and provide a means of energy recovery back to the end user.

Woodcreek ASR Well Facility, Camarosa Water District—Lead Mechanical Engineer. This project involved designing a 2,000-gpm engine-driven deep well vertical turbine pump using aquifer storage and recovery technology, prefabricated building and chlorine generation system.

Industrial

Energy Management Study, Saint Francis Hospital Santa Barbara—Project Engineer. Performed energy auditing and evaluation of existing HVAC system consisting of centrifugal coolers, air handling units, cooling tower, steam boilers, and its associated control system. This study will serve as a necessary guideline for the client quality for SCI energy management program.

Hunt Wesson Industrial Wastewater Treatment Plant—Project Engineer/Lead Mechanical Engineer. Mr. Yang was responsible for project management and design of primary treatment facilities, RAS and WAS pumping station, aeration air blowers, secondary clarifier, and solids dewatering equipment.

Project Partners

David Yang
Senior Project Manager
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Employment History

Project Partners, CA 2011- Present
SENIOR PROJECT MANAGER

Metcalf & Eddie, CA 2005 to 2010
SENIOR PROJECT MANAGER

PBSJ, Irvine, CA 2003-2005
PROJECT MANAGER / PROJECT ENGINEER/ LEAD MECHANICAL DESIGN ENGINEER

CGVL Engineers, Irvine, CA (August 1996 – 2003)
PROJECT MANAGER / PROJECT ENGINEER/ LEAD MECHANICAL DESIGN ENGINEER

CH2M Hill, Santa Ana, CA, (January 1992 – July 1996)
PROJECT ENGINEER/ LEAD MECHANICAL DESIGN ENGINEER

Montgomery Watson Company, Pasadena, CA, (April 1989 – January 1992)
PROJECT ENGINEER/LEAD MECHANICAL DESIGN ENGINEER

Whitman, Requardt and Associate, Baltimore, MD (January 1985 – April 1989)
STAFF MECHANICAL DESIGN ENGINEER

Education

Candidate for Master of Science, George Washington University
Mechanical Engineering

BS University of Maryland College Park
 Emphasis in Mechanical Engineering

Professional Membership

American Society of Mechanical Engineers (ASME)
National Fire Protection Associations (NFPA)
American Society of Heating, Refrigeration and Air conditioning Engineers (ASHRAE)



Michael Fileccia, P.E.

Project Level

Senior Project Manager

Qualifications

- *Principal Water Engineer With Over 40 Years Of Experience*
- *Extensive Experience In Management, Design, Construction, Operation And Maintenance Of Water And Wastewater Facilities*
- *28 Years of Public Agency Experience*
- *Over 17 Years With City of Anaheim*
- *Strong Written And Oral Communication Skills*

Relevant Experience

Dexter Wilson Engineering, Inc. (1998-2004)
Managing Engineer

Manager for planning, design and construction management services for wastewater, water and stormwater pump stations, pipelines and reservoirs.

Wastewater Projects: Designed nine new and upgraded three existing wastewater pump stations ranging in size from 9 MGD to 120 gpm. Two of the sewage pump stations are over \$4 million in construction cost each. One of these stations is the Buena-Shadowridge Sewage Pump Station for the Buena Sanitation District, with five 150 horsepower pumps replacing two existing pumping stations. This project was challenging because the new station had to fit within the existing 80' by 80' site containing two existing pump stations. The existing electrical services and discharge force mains for the two existing pump stations had to be relocated, while operating, to make room for the new station. Designed the City of San Diego Wastewater Pump Station no. 90 with three 250 horsepower pumps with flywheel type surge protection and a 400,000 gallon below ground emergency storage tank. Prepared construction contract documents for rehabilitation of several thousand feet of a 27" VCP sewer using the cured in place liner process including bypass pumping. Provided master planning services for sanitary sewer interceptors for a large developer in the Santa Clarita Area. Completed the design and construction of the North County Jail sewer improvements for the County of San Diego. Project included adding a grinder vault to the existing sewer system.

Water Projects: Designed three potable water storage reservoirs, including two above ground steel reservoirs, and one below ground concrete reservoir located in the fairway of a golf course. Designed three water booster pump stations, numerous water pipelines and water system network analysis for developments serving over 2000 homes. Designed three water booster pump stations, the 2500 gpm Scripps Poway Parkway Water Booster Pump

Project Partners

Michael Fileccia, P.E.

Senior Project Manager

Page 2

Station for the City of San Diego, the 1100 gpm East Grove Reservoir for the City of Escondido and the 600 gpm Retreat water booster station for the Lee Lake Water District. Assisted with the relocation of a 42" water transmission main through the East Grove development in City of Escondido. Design of several thousand feet of 36 inch and 30 inch water transmission mains within the East Grove development, including shop drawing review.

Reclaimed Water Projects: Designed expansions for two Water Reclamation Facilities serving Indian Gaming Resorts. One involves a membrane filtration process and the other convention activated sludge. Past projects include preparation of procurement documents for a design build contract for the City of Corona's Wastewater Treatment Plant no. 3 which treated water to full Title 22 requirements for producing reclaimed water. The plant was planned for an ultimate capacity of 3 MGD with the initial increment of 1 MGD.

Stormwater Projects: Designed a \$1.5 million emergency project to renovate and upgrade of the City of San Diego's Stormwater Pump Station N serving the Pacific Beach area. This stations internal piping was replaced with polyethylene to prevent corrosion from seawater. This project included improvements to the dry weather diversion pumping system.

Encina Wastewater Authority (1994-1998)

Director of Technical Services

Department head position reporting to the General Manager. Directed the activities of the Technical Services Department, including the engineering, construction, laboratory, ocean, beach and sewer monitoring programs, source control, safety, flow metering, permitting and biosolids disposal/reuse program. The department included 11 personnel with an annual budget of \$3 million. Responsible for capital improvements to the Encina plant and outfall including all planning, design and construction activities. Responsible for selection and contract administration of professional service contractors for engineering, construction oversight, biosolids reuse/disposal, marine monitoring and flow metering. Media representative during a major sewer spill event into a coastal lagoon.

As the Director of Technical Services at the Encina Wastewater Authority I was responsible for administering the Joint Powers Establishment agreement and the Basic Agreement that establishes the governs the operation and maintenance of the joint system. Responsible for determining the present value of capacity rights when one member agency desired to sell their assets in the joint system and use the funds to expand an upstream reclamation plant.

One of only three managers authorized to sign checks for the agency. For a four month period, also performed the duties of the Director of Administration including completing negotiations with the operations and maintenance unit represented by the Teamsters Union. Prepared monthly reports and presentations to the Board of Directors and the member agency managers. Responsible for presentations to the Board of Directors on all planning, design and construction activities. Responsible for the preparation and presentation of the capital improvement budget. Responsible for permitting programs including NPDES, air quality, building, and environmental compliance.

City of San Diego (1993-1994)

Wastewater Treatment Superintendent

Project Partners

Michael Fileccia, P.E.

Senior Project Manager

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Superintendent of the 180 MGD Point Loma Wastewater Treatment Plant and the Fiesta Island Sludge Dewatering Facility. The position managed a staff of 160 with an annual budget of over \$40 million. Responsible for the operation and maintenance of the facilities and contracting for biosolids disposal and reuse. The Superintendent was a third level management position with duties that include; developing policies and procedures; preparing operation and maintenance budgets; preparing technical and non-technical reports providing information to regulatory agencies, the news media, community groups, and the general public; making presentations to the City Managers Office, the City Council and community groups; serving as the City representative on various boards and committees; training, supervising and evaluating the work performance of subordinates.

Engineering-Science, Inc., San Diego, CA (1990-1993)

Project Manager

Responsible for marketing, technical, and financial performance of consulting engineering services. Project Manager for the sludge composting facility for the City of Escondido. The initial phase of this project was completed including, site selection, an in-vessel composting technology review, a filter press pilot study, a pilot composting study, a facility planning report, and a compost marketing plan.

Project Manager for the multi-year Master Plan of Rehabilitation and Major Improvement Projects for the Encina Wastewater Authority. Task Manager for the preliminary design of anaerobic digestion and digester gas utilization facilities for the City of Stockton, California. This project includes two large waffle bottom digesters, digester gas pressurization systems, and a digester gas/natural gas fuel system for engine driven generators.

Project Engineer for the \$16 million emergency repair of the Point Loma Outfall. Responsible for procurement of repair pipe and production of repair plans. Assisted with the design and construction of the Point Loma Outfall Extension. Project Engineer for the design of short-term disinfection facilities for the City of San Diego's Ocean Plan Compliance project.

County Sanitation Districts of Orange County (1984-1990)

Supervisor/Engineer, Operations Division

Supervisory position functioning as an assistant to the Operations Division Manager. The operations division had a staffing level of 118 and an annual budget of \$16 million. Prepared budgets for personnel, equipment, chemicals, and capital improvement projects. Responsibilities included substituting for Division Manager as needed, supervising the treatment plant evaluation group and serving as a process control engineer for a 260 MGD wastewater treatment agency.

The evaluation group assignment included project management for multiple projects and a staff of 7. Typical projects included evaluating unit processes for retrofits and additions needed to improve efficiency or maintain compliance with regulatory agency requirements. Personally responsible for overseeing the operations for compliance with air quality permits for 30 scrubbers, flares and engine driven equipment.

Additional assignments included; management of consultant activities for training and optimization work; start-up engineer for a \$20 million odor control project; start-up engineer for the 480 MGD ocean outfall booster pump station; development of process monitoring

Project Partners

Michael Fileccia, P.E.

Senior Project Manager

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and computer monitoring systems; and operation of facilities to meet NPDES and AQMD requirements for large technically complex wastewater treatment facilities.

John Carollo Engineers, Fountain Valley, CA (1978-1984)

Project Engineer

Project Engineer for construction services for the County Sanitation Districts of Orange County for the 75 MGD pure oxygen activated sludge facilities and the solids handling improvements consisting of 10 belt presses and four 110-foot diameter digesters. Multiple contracts totaling over \$100 million. Coordinated shop drawing review, plan clarifications, and plan change documentation for joint venture firms including four offices. Project administrator for training services and production of the O & M manual for these facilities.

Project Engineer for the city of Bend Oregon wastewater treatment system including the ultimate effluent disposal system. Resident Engineer for improvements to the City of San Bernardino municipal wastewater treatment plant including the addition of a belt press, boiler, solids handling pumps, and process piping. Assisted with completing the plans and specifications for a four mile long 48-inch water transmission main for the Irvine Ranch Water District. Assisted with the final design of the reclaimed water treatment facility for the South Coast County Water District.

1970's Certified Engineering Technician for Two Consulting Engineering Firms

Responsible for field work including flow measurement of infiltration and inflow from the collection system for the City of Rantoul, Illinois. Prepared plans and specifications for an aerated lagoon system for the village of Gifford, Illinois. Conducted an industrial waste sampling and monitoring program for a Brach Candies factory.

Prepared plans, specifications, and reports under the direction of a professional engineer. Assisted engineers by performing calculations, surveying, preparing cost estimates, supervising drafting work, coordinating work of electrical and instrumentation departments and layout of facilities. Projects included municipal water treatment and distribution systems, wastewater treatment and collection systems, and industrial wastewater treatment facilities.

City of Anaheim (2004-2023)

Principal Water Engineer, Water Utility Department

Management Position in the Water Service Department. For the past 5 years has been the Field Engineer report directly to the O & M manager providing technical support to the O & M staff and substituting for the manager position during his absence. Responsible for supervision of the water inspection staff and Cross Connection Control group. During this period managed two emergency repair projects including storm water damage to slopes at the Lenain Treatment Plant and Nohl Canyon reservoir sites. The repairs cost over \$450,000 and due to good recordkeeping was able to secure funding from FEMA and the City insurance policy to pay the cost of the repairs. Also designated the "Dam Coordinator" for the 920 MG Walnut Canyon Reservoir with responsibility with coordination with the DSOD for inspections and annual reports. Project Administrator for the Operation and Maintenance of the 50,000-gallon Water Recycle Demonstration project providing recycled water to parks and City Hall landscaping. During the 10-year assignment in the CIP group

Project Partners

Michael Fileccia, P.E.

Senior Project Manager

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projects include rehabilitation and replacement of reservoirs, dams, a water treatment plant, wells, water booster stations and pipelines. Responsible for review and approval of plans for water facilities designed by consultants and in-house staff. Manages consultant selection process, including preparation of RFPs, and approval of invoices. Prepares staff reports, related agenda materials and capital budgets. Responsible for public outreach activities to citizens, HOA's, other agencies affected by constructed activities. Administers and negotiates reimbursement agreements and permits for relocation of water infrastructure required to accommodate transportation projects involving CALTRANS, OCTA, OCWD, OCFCD and other municipal governments. Project Manager for relocation of the water distribution facilities to accommodate 3 railroad bridge projects with over \$2.5 million of reimbursed costs. Project Manager for the relocation of 36" water transmission mains to accommodate a Caltrans freeway widening project including \$2.5 million in reimbursed costs. This project was designed within a six-week window so it could be included in a Public Works contract for street widening. This project won a silver award from CALTRANS for Excellence in Partnering. Project manager for the La Palma Complex facility planning study and brought the design to the 50% level before transferring to the Field and Operations Division. Completed the facility planning study for the Lenain Water Treatment Plant Expansion and Rehabilitation Program. Major contributor on standard specifications team and seismic upgrade projects including investigation of the latest advancements in earthquake resistant pipe systems.

Past projects include the \$12 million Walnut Canyon Reservoir rehabilitation project. Presided over several public outreach meetings, published a monthly newsletter and communicated regularly with about 150 local residents. Project involved over 2,000 truck trips and 9,500 cubic yards of concrete poured within feet of some local residences backyards. Administered development projects, including preparation of agreements, fee assessments, enforcement and updates to water system rules and regulations. During the 2 year assignment in the Water Resources and Planning group, supervised the front counter staff including approval of water meter installations and fee collection. Supervised two engineers responsible for updating and maintenance of the water system network distribution model and review and approval of development projects. Provided water system analyses to review, assess, and respond to California Environmental Quality Act (CEQA) documents prepared by others. Providing occasional assistance and support on water resource activities, including coordination with the OCWD and MWD.

Education

MS Loyola Marymount University, Los Angeles, California
Civil Engineering, Water and Wastewater Curriculum 1989

Certificate Program - Management Practice for Engineers and Technical Professionals,
1985, University of California, Irvine

Professional Certification

- Registered Professional Engineer (California 1983, No. C36429)
- Grade V Wastewater Treatment Plant Operator Certificate (CA 1988, No. V7101)
- D3 Water Distribution Operator Certificate (CA 31126)



Robert McVicker, P.E.

Project Level

Senior Project Manager

Qualifications

- *Registered Senior Civil Engineer With Over 35 Years Of Experience*
- *Extensive Water CIP Project Management Experience*
- *Former District Engineer At Mesa Water District And Water Replenishment District Of Southern California*
- *Former Principal Engineer at Irvine Ranch Water District*
- *Strong Written And Oral Communication Skills*
- *Team Player*

Relevant Experience

John Powell & Associates, Encinitas, CA (1999-2000)

Senior Project Manager

- Strategic planning and market development
- Project manager for various water and wastewater consulting projects including water master plans and complex distribution system models

Project Partners, Assigned to City of Fullerton, Golden State Water Company, West Basin MWD, and Central Basin MWD (2018-Present)

Senior Water Engineer

- City of Fullerton: Water Rate Study; North Basin Plume
- Golden State Water Company: Operations Engineer
- West Basin Municipal Water District: CIP Masterplan RFP ; Ocean Desalination Demonstration Project Prop 50 Loan Close Out; Emergency Response Plan RFP; Ocean Desalination Cost-Benefit Analysis
- Central Basin MWD: Managed Engineering Department during incumbent's medical leave

Project Partners

Robert McVicker, P.E.

Summary of Qualifications

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Golden State Water Company, Anaheim, CA (2012-2018)

Engineering Planning Manager/Interim CIP Design Manager

- Manage planning department, preparing capital improvement program for general rate case, updating master plans, pipeline management program, and hydraulic models for 38 systems owned by Golden State
- Manage preparing project concepts, preliminary cost estimates and testimony for general rate case, preparing capital budgets and project design for \$100 million per year capital improvement program
- Managed design department and assisted CIP construction management
- Manage preparation of water supply plans to identify alternative supplies for reducing water supply costs and increasing capital rate base
- Manage development and utilization of geographical information system for 38 systems, including water distribution system modeling, asset management and improving business processes

Mesa Water District, Costa Mesa, CA (2001-2012)

District Engineer/Water Resources Manager

- Significant participant in update of Mesa's strategic plan and leader of a task force managing tasks supporting the goals and objectives of the plan
- Manager of water supply planning, developing capital projects and annual water supply plans to maximize use of local supplies and minimize water supply costs
- Represent Mesa at the groundwater management agency and imported water supply agency interacting with agency staff and elected officials and have lead participation in numerous programs that have protected Mesa's interests and resulted in cost savings
- Developed agreements to allow Mesa to increase its groundwater supply using the groundwater management agency programs to fund the capital and increased operating costs of treatment of groundwater with high organics and color
- Managed investigative and corrective work, installation of bromate control equipment for and development of a project to replace technology and expand the colored water treatment facility with the expected result of water supply cost savings greater than \$2,000,000 per year
- Managed development of an information technology master plan, managed development of an asset management plan and managed the implementation of a geographical information system and upgrade of the supervisory control and data acquisition (SCADA) system

Psomas, Costa Mesa, CA (2000-2001)

Senior Project Manager

- Project manager for various water resources consulting projects including water master plan updates, water supply plans for developments, Urban Water Management Plans and water marketing and water banking investigations

Project Partners

Robert McVicker, P.E.

Summary of Qualifications

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Water Replenishment Dist. of So. Cal., Cerritos, CA (1997-1999)

District Engineer

- Managed 11-person technical group including engineers, hydrogeologists, technicians and GIS specialist
- Developed and implemented groundwater management plan and strategic plan
- Directed numerous planning, design and construction projects

Irvine Ranch Water District, Irvine, CA (1990-1997)

Principal Engineer

- Managed planning division of Engineering and Planning Department
- Responsible for update of water and sewer master plans and preparation of sub-area master plans for developing areas
- Responsible for groundwater development and management
- Responsible for preparation of the District's capital budget

Boyle Engineering Corp., Newport Beach, CA (1989-1990)

Senior Engineer

- Project manager and project engineer on a variety of water resource projects.

Orange County Water Dist., Fountain Valley, CA (1987-1989)

Associate Engineer

- Performed studies, prepared reports, performed data analysis, plotting and mapping. Monitored Chino Basin Water Master Activities.

Camp Dresser and McKee Inc., Irvine, CA (1984-1987)

Engineer – Project Manager

- Responsible for management and/or technical implementation of a variety of water resources engineering projects and manager of the office's computer resources. Participated in update of Santa Ana River Basin Plan including water resources model of the upper basin.

Education

- | | |
|-----|--|
| PHD | University of California, Los Angeles
Civil Engineering, 1986 (Major in Water Resources & Minors in Operations
Research and Decision Theory) |
| MS | Utah State University, Logan, UT
Civil Engineering, 1983 (Water Resources and Hydrology) |
| BS | Humboldt State University, Arcata, CA
Environmental Resources Engineering, 1980 |

Project Partners

Robert McVicker, P.E.

Summary of Qualifications

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Professional Certification

Registered Professional Engineer – C40939

Professional Affiliation

American Society of Civil Engineers – Diplomate, Water Resources Engineer

American Water Works Association



Steve Gao, P.E.

Project Level

Senior Project Manager

Qualifications

- *Senior Project Manager with over 35 Years of Professional Experience*
- *Extensive Experience with Wastewater, Water, Reclaimed Water, and Other Capital Improvement Projects*
- *Demonstrated Expertise in Entire Project Cycle: Planning, Design, Construction, and Operations*
- *Over 8 Years of Public and Municipal Sector Experience*
- *Administered and Controlled CIP Budgets and Schedules*
- *Experienced in Working With Regional Water Quality Control Board, California Department of Public Health, CPUC, EPA, Local, State and Federal Agencies, Consultants, Developers, and General Public*
- *Extensive Computer Experience with Word, Excel, Power Point, MS Project, and Other Engineering Programs*

Relevant Projects

- Project Manager responsible for the planning, design, and construction of Regional Plant No. 4 for IEUA. The capacity of the first phase of this new wastewater treatment plant is 7 MGD and the ultimate capacity is 28 MGD. The plant consists of an influent pumping station, oxidation ditches, secondary clarifiers, tertiary filters, UV disinfections, and solids handling facilities.
- Project Manager of IEUA Regional Plant No. 1 Anaerobic Digester System Improvements - Preparation of pre-design report, plans, specifications, cost estimates, contact administration, and construction management for a 44 MGD wastewater treatment plant's anaerobic digester system improvements. The improvements include the evaluation and design of anaerobic digester mixing and heating systems, structural modifications, sludge, and digester gas piping systems.
- Senior Project Engineer responsible for the planning and design of a 10 MGD expansion to a 40 MGD wastewater reclamation plant for Eastern Municipal Water District. The design included preparing plans and specifications, and coordination with the Water District and other regulatory agencies. The treatment processes include rapid mixing, flocculation, tertiary clarification, gravity dual media filtration, chlorination, and dechlorination. The design also included preparing plans and specifications for an effluent pump station for the reclamation plant.

Project Partners

Steve Gao, P.E.

Senior Project Manager

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- Principal Engineer responsible for the planning and engineering design of a 2-million-gallon reservoir for a mutual water company. The project included geotechnical investigations and preparing plans and specifications. The project also included connection piping and site improvement plans.
- Engineering and Planning Manager responsible for design-build of water and wastewater infrastructures, including reservoir, booster station, transmission mains, lift stations, and sewer lines at Ft. Bliss in eight months (Normally the project may take 15 months to complete) to accommodate an additional 3800 troops.
- Senior Project Manager responsible for the planning and designing of Western Municipal Water District (WMWD) Hillside Reservoirs, T1 and T2, rehabilitation project. The project scope includes field inspections, diving inspections, preparing plans and specifications, and preparing reservoir shut-off plans.
- Senior Project Manager responsible for the WMWD's \$4.35 million Odor Mitigation project. The project consists of scrubbers, 7-foot diameter duct banks, covering the existing weir box, etc.
- Project Manager of Regional Plant No. 1 Cogeneration Improvements for Inland Empire Utilities Agency (IEUA) - Preparation of pre-design report and final design for a 12 kV, 2,800 kW digester gas-fueled cogeneration system. The project also consists of 12 kV switchgear, a hot water system, and building modifications.
- Project Manager of Regional Plant No.1/Regional Plant No.4 Recycled Water Distribution System for IEUA. The water distribution system consists of 44,800 L.F. of 36" to 54" diameter pipelines, a reservoir, two pump stations, control valves, lateral connections, and appurtenances. The project included RFP preparation, consultant selection, EIR, freeway crossing, and multi-agency permitting.
- Engineering and Planning Manager responsible for engineering design and construction of over 14,000 L.F. of water transmission main and distribution lines, sizes 16", 12" 8", 6", and appurtenances at Andrews AFB.
- Chief Engineer responsible for the preparation of San Gabriel Valley Water Company, Fontana division Comprehensive Water Master Plan. The master plan includes an evaluation of the existing water system, improvement needs assessment, future water demand projections, water resources, future rules and regulations changes, alternative strategies, cost estimates, cost-benefit analyses, implementation plans and schedules, and the development of H2ONET computer models for the entire water system.
- Chief Engineer responsible for the engineering design and construction management of Plant No. 8 Air Stripping Tower. The project included a 5,000-gpm air-stripping tower and an activated carbon unit to remove VOC.
- Chief Engineer responsible for the engineering design and construction management of a new water production well, Well F49. The well consists of an 18" casing and is 1,200 feet deep. The project also included the proposed well area influence studies, CDHS permitting, yield test, etc. The final production rate of the well is approximately 1,500 gpm.
- Chief Engineer responsible for the planning, pre-design, and final design of a new surface water treatment plant. The capacity of the first phase of the plant is 20 million gallons per day (MGD), and the ultimate facility capacity is 30 MGD. The plant includes MWD connection, flocculation and sedimentation basins, sand filters, disinfection, and solids handling facilities.

Project Partners

Steve Gao, P.E.

Senior Project Manager

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- Chief Engineer responsible for the design-build of a new water treatment plant to treat perchlorate-contaminated groundwater. The capacity of the plant is 10 million gallons per day (MGD).

Relevant Experience

Project Partners, Inc. (May 2022-Jul 2024)

Senior Water and Wastewater Project Manager (Mar 2024-Jul 2024)

Assigned to Inland Empire Utilities Agency

Responsible for preparing project scope of work, RFPs, specifications, and construction plans. Supervise and manage engineering consultants in preparing plans, specs, and cost estimates. Serve as a liaison between the District and regulatory agencies regarding permit issues.

Senior Water and Wastewater Project Manager (May 2022-Mar 2024)

Assigned to Western Municipal Water District

Responsible for preparing project scope of work, RFPs, specifications, and construction plans. Supervise and manage engineering consultants in preparing plans, specs, and cost estimates. Monitor construction projects to ensure compliance with plans, specs, contract documents, and all regulations. Review and resolve RFIs, and change order requests. Serve as a liaison between the District and regulatory agencies regarding permit issues. Prepare Committee and Board letters. Implement the planning, design, construction, and closeout phases of water and wastewater engineering projects, and ensure the project is on schedule and under budget.

CSW Engineering (2012-2020) (Semi-Retired in Mar 2020)

Principal

Provided contract engineering, construction management, and construction inspection services for water, wastewater, and reclaimed water projects. Provided value engineering and constructability reviews for engineering and construction projects.

American States Utility Services, Inc. (Golden State Water Company) (2005-2012)

Manager of Engineering and Planning

Fully responsible for engineering and planning activities related to the water and wastewater systems of 10 military bases throughout the U.S. Managed the planning, engineering, construction, inspection, budget and schedule of capital improvement programs including water pipelines, pump stations, reservoirs, wells, water treatment facilities, wastewater collection system, lift stations, wastewater treatment and reclamation facilities. Ensured the legal, contractual, regulatory and company requirements and commitments are met. Prepared 5-year capital improvement plans, created and implemented company-wide GIS program, etc.

MacDonald - Stephens Engineers, Inc., Mission Viejo, CA (1989)

Senior Engineer

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Steve Gao, P.E.

Senior Project Manager

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Project management and engineering for public works projects. Responsibilities included preparation of plans, specifications, cost estimates, contract administration, and construction management. Projects included water distribution systems, pump stations, reservoirs, water treatment facilities, wastewater collection systems and treatment facilities, master plan preparation, computer modeling, client and agency contract.

Kennedy/Jenks/Chilton, Inc., Irvine, CA (1987-1989)

Project Manager/Engineer

Responsible for the management, planning and engineering of public works projects including water distribution systems, water treatment facilities, pump stations, wastewater collection systems, water reclamation facilities, water and wastewater master plans, and computer models. Supervised engineering staff, monitored and controlled schedule, quality, and budget of the projects. Prepared proposals and coordinated with clients and regulatory agencies. Presented technical reports to the agencies and the public groups.

Psomas and Associates, Costa Mesa, CA (1989-1991)

Project Manager

Responsible for the management and engineering of major capital improvement projects and new or redevelopment projects, including water distribution systems, pump stations, wastewater collection systems, street, and drainage improvements. Prepared master plans, computer models, studies and engineering reports. Performed site investigations and prepared reports. Prepared proposals, negotiated contracts, coordinated with clients and agencies. Supervised design team and controlled budget and schedule of the projects. Represented the company at various functions and activities.

San Gabriel Valley Water Company (2000-2005)

Chief Engineer

Fully responsible for the water system master planning, engineering, and construction of all capital improvement and O/M projects for a water company currently services a population of approximately 300,000 in 19 cities and unincorporated areas in Los Angeles and San Bernardino Counties. The water system consists of 43 reservoirs, 60 water wells, 1 surface water treatment plant and 1,100 miles of pipeline. The CIP projects consisted of water pipelines, pump stations, reservoirs, wells, water treatment facilities, and reclaimed water systems.

Inland Empire Utilities Agency (1992-2000)

Civil Engineer, P.E.

To serve as Engineering Supervisor and Senior Project Manager, responsible for the Agency's capital improvement projects including scope of work development, consultant selection and supervision, preparation of plans, specifications, and cost estimates, contract administration, and construction management. Prepared master plans, technical report, economic analyses and make presentations. Coordinated project activities with Water Quality Control Board, Department of Health Services, EPA, local, state and

Project Partners

Steve Gao, P.E.

Senior Project Manager

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federal agencies. Prepared agenda items and Board recommendations. Supervise engineers, engineering technicians, and supporting staff.

Steven Andrews Engineering, Orange, CA (1991-1992)

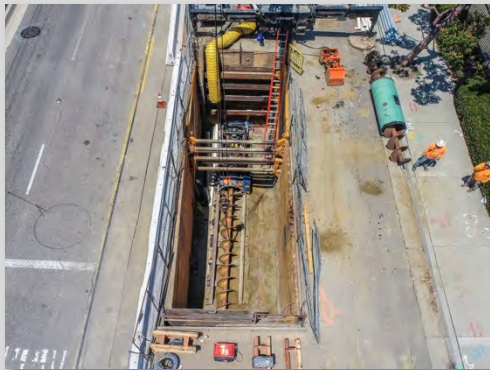
Principal Engineer

Responsible for the full project engineering and management for a variety of public works engineering projects including water treatment facilities, water distribution systems, reservoirs, water wells, pump stations, and water reclamation facilities. Prepared master plans, studies and engineering reports. Performed water distribution system analyses by using computer models. Coordinated with local, state and federal agencies.

Publications

- Gao, S. "Effects of Hydraulic Detention Time and Sludge Age on the Performance of Activated Sludge Process"
- Gao, S. "Solution of Digester Foaming Problems at China Basin Municipal Water District"

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY (SOCWA)



REQUEST FOR PROPOSALS FOR ON-CALL PROJECT MANAGEMENT SERVICES

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1. IDENTIFICATION OF RESPONDER

1. IDENTIFICATION OF RESPONDER

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

August 22, 2024

Subject: Request for Proposals to Provide On-Call Project Management Services

Dear Ms. Cotinola,

Z&K Consultants Inc. (Z&K) is pleased to submit our proposal in response to the South Orange County Wastewater Authority's (SOCWA) Request for Proposals for On-Call Construction Project Management Services. Our firm brings a wealth of experience and a deep commitment to excellence in every project we undertake. We understand the critical importance of ensuring that construction projects within your jurisdiction are managed efficiently, safely, and to the highest standards of quality.

Z&K specializes in a comprehensive suite of services including Project Management, Construction Inspection, Construction Management, Construction Administration, Pre-Construction Inspection, Staff Augmentation, and a range of other Professional Engineering Consulting Services. Our expertise in these areas allows us to provide tailored solutions that meet the unique needs of each project while ensuring compliance with all relevant regulations and standards. Our team has successfully completed numerous similar contracts for local agencies, demonstrating our ability to deliver results on time and within budget. These experiences have equipped us with the skills and knowledge to navigate the complexities of construction projects, ensuring that each phase is executed with precision and attention to detail.

Z&K Firm Information	
Legal Name	Z&K Consultants, Inc.
Address & Principal Place of Business	17130 Van Buren Blvd. Suite 122 Riverside, CA 92504
Type of Firm	California C Corporation
Parent Companies	None
Office Locations	Irvine, Orange, Riverside, & San Bernardino
Contact Person	Zack Faqih, Vice President (949) 637-5040 zfaqih@zandkconsultants.com

Expertise, Competence and Experience in the Type of Service Required and in Line With the Complexity of the Work | Our team comprises highly skilled professionals with specialized expertise in projects, reflecting our deep understanding of the complexities inherent in SOCWA's initiatives. Our key personnel have successfully delivered similar projects and possess the technical insight necessary to manage the unique challenges that these endeavors present. The Z&K team includes licensed engineers, licensed landscape architects, licensed surveyors, certified construction managers, certified inspectors, certified planners, qualified SWPPP developers/practitioners, and seasoned project managers, all dedicated to ensuring the successful execution of SOCWA's projects. Acting as a seamless extension of SOCWA's staff, we are fully prepared to provide the requested services with the highest level of competence and efficiency. Our proven track record in similar contracts demonstrates our ability to save significant time and costs by identifying critical project elements and offering practical alternative solutions. The unparalleled experience of our team in delivering similar services for comparable projects positions Z&K as uniquely qualified to meet the demands of SOCWA's initiatives.

Z&K has successfully held **over 70 similar Contracts in the past 5 years and currently holds 55 On-Call Contracts** providing similar services in the last 5 years.

Record of Performing like Work for SOCWA, its Member Agencies or other Similar Agencies | Z&K has a proven track record of delivering high-quality services on projects similar to those anticipated by SOCWA. Over the past five years, we have successfully completed more than 70 contracts of a similar nature and currently hold 55 On-Call/As-Needed Contracts, serving Municipal, County, and State Agencies in a capacity closely aligned with the requirements of SOCWA's upcoming projects. Our deep familiarity with projects involving infrastructure upgrades, equipment replacement, structural repairs, system enhancements, facility improvements, and maintenance and reconstruction positions us as a reliable partner for SOCWA.

Our experience encompasses a wide range of project types, such as aeration system upgrades, energy building improvements, and process water re-piping under infrastructure upgrades. We have also managed equipment replacement projects including generator replacements, pump station upgrades, and scum line replacements, along with structural repairs for critical components like chlorine contact basin gates, digester gas piping, and heat exchanger pipes. System enhancements—such as upgrades to grit systems, odor control systems, and polymer systems—are another area where our team has delivered exceptional results. In addition, we have handled facility improvements, including access road repaving, building repairs, and air valve replacements, as well as maintenance and reconstruction tasks like dewatering room upgrades, drainage pump rehabilitation, and trail bridge improvements.

Our proposed A-Team is exceptionally well-equipped, having successfully delivered numerous projects directly aligned with SOCWA's upcoming initiatives. This extensive experience ensures that we can provide the specialized expertise needed to meet SOCWA's specific needs, delivering projects efficiently and successfully tailored to your requirements.

Cost Competitive Services | We offer cost-competitive services, with proposed rates that are both fair and reasonable. Our fee schedule is based on a time-and-materials approach, ensuring that our clients receive value for the services we provide. The personnel we have proposed are highly capable of performing the required services at competitive rates. We have meticulously based our cost proposal on the scope of work outlined in the Request for Proposals, ensuring alignment with SOCWA's expectations and needs.

Ability to Deliver on Time and Quality Work | Z&K's ability to consistently deliver on time and with high quality is rooted in our proactive approach, deep understanding of SOCWA's requirements, and the availability of our highly qualified staff. Our success in managing project management contracts, especially in on-call, multi-task, and multi-year settings, is a testament to our effectiveness in these areas. We are fully committed to dedicating the necessary resources to handle varying workloads, even when faced with the demands of multiple task orders progressing concurrently. Our team is equipped to respond swiftly and efficiently, ensuring that each project is completed within the agreed-upon timelines without compromising on quality. We recognize that technical expertise and resources only achieve their full potential when they are meticulously managed.

Realistic Level of Effort to be Expended | Z&K is fully committed to delivering our best in project management and related services to ensure timely project completion. We will allocate the necessary resources to meet each assignment's deadlines and budget constraints. Our key personnel will be dedicated to the project for its entire duration, and no changes in staffing will occur without SOCWA's prior approval. We maintain a strong focus on our clients by closely monitoring contract budgets and schedules, ensuring that all objectives are met efficiently.

Responsibility of the Respondent | Z&K acknowledges the critical responsibility we bear in delivering the highest quality services to SOCWA. As the selected respondent, we understand that our role extends beyond mere project execution; it encompasses maintaining the integrity, safety, and efficiency of all tasks assigned to us. We are committed to adhering to the highest standards of professionalism, accountability, and transparency throughout the project lifecycle.

Responsiveness to this RFP | Our proposal is detailed, thorough, and carefully crafted to address every requirement set forth in the RFP. Z&K has meticulously covered all aspects, from the project scope to the qualifications of key personnel, ensuring that SOCWA has a clear and comprehensive understanding of our approach and capabilities.

Ability to Meet all of SOCWA's Relevant Policies and Contractual Requirements including Insurance, Indemnification and Equal Opportunity Practices | Z&K is fully committed to adhering to all of SOCWA's relevant policies and contractual requirements, including those related to insurance, indemnification, and equal opportunity practices. We understand the importance of these elements in ensuring the integrity, safety, and fairness of the projects we undertake.

Product Performance | Z&K Consultants Inc. is dedicated to delivering exceptional product performance in every project we undertake. Our commitment to excellence is reflected in the quality of the services we provide, ensuring that the outcomes not only meet but exceed the expectations set forth by SOCWA. We invite SOCWA to reach out to our numerous references, who can attest to our professionalism, expertise, and ability to deliver results that exceed expectations.

Z&K Consultants, Inc. 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 RFP. Z&K Consultants, Inc. certifies that it is willing and able to obtain all insurance required by the form contract included as Attachment C. Z&K Consultants, Inc. certifies that 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 that is the subject of this RFP and certifies that the proposed pricing includes funds sufficient to allow respondent to comply with all applicable local, state, and federal laws or regulations governing the labor or services to be provided. Z&K Consultants, Inc. acknowledges and agrees with all terms and conditions stated in the RFP. Z&K Consultants, Inc. certifies that all information provided in connection with its proposal is true, complete and correct.

We believe that our proven track record, combined with our specialized knowledge and commitment to client satisfaction, makes Z&K the ideal partner for SOCWA in managing your upcoming construction projects. We are eager to bring our expertise to your team and contribute to the continued success of your projects.

I will serve as the management contact for the full duration of the contract, and I am authorized to bind the firm to the terms of the proposal and execute legal documents on behalf of the firm. This Proposal shall be valid for a period not less than 180 days. Thank you for considering our proposal. We look forward to the opportunity to work with SOCWA and are confident that our team can exceed your expectations.

Sincerely,



Zack Faqih, PE

Principal-in-Charge, Management Contact

Z&K Consultants, Inc.

17130 Van Buren Blvd. Suite 122, Riverside, CA 92504

949.637.5040 | zfaqih@zandkconsultants.com



2. WORK PLAN OR CONTRACT ADMINISTRATION

2. WORK PLAN OR CONTRACT ADMINISTRATION

PROJECT UNDERSTANDING

Our team thoroughly reviewed the project documents, RFP, budget, agendas, and minutes. This preparation has given us a deeper understanding of the potential challenges SOCWA's projects may face and has made us familiar with the site and surrounding stakeholders. This knowledge and groundwork will allow us to start the project efficiently, helping the contractor gain a clearer understanding and proactively addressing potential issues.

AGENCIES & FACILITIES | The South Orange County Wastewater Authority (SOCWA) is a Joint Powers Authority responsible for managing wastewater treatment, effluent and biosolids disposal, and water recycling at regional facilities in southern Orange County. SOCWA was created through the collaboration of seven member agencies: the City of Laguna Beach, the City of San Clemente, El Toro Water District, Emerald Bay Service District, Moulton Niguel Water District, Santa Margarita Water District, and South Coast Water District. SOCWA operates three main wastewater treatment plants: the J.B. Latham Treatment Plant (JBL), the Coastal Treatment Plant (CTP), and the Regional Treatment Plant (RTP). Additionally, SOCWA owns two ocean outfalls, the Aliso Creek Ocean Outfall and the San Juan Creek Ocean Outfall, as well as four effluent transmission mains, referred to as Reaches B, C, D, and E. Key Facilities include:

J.B. Latham Treatment Plant (JBL): This facility has a capacity of 13 million gallons per day (MGD) for secondary treatment, utilizing conventional activated sludge treatment with aeration and sedimentation. The plant is divided into two operational units: a 9 MGD unit (Plant 1) and a 4 MGD unit (Plant 2). It also features facilities for sodium hypochlorite disinfection and biological control, ensuring effective treatment and management of wastewater.

Coastal Treatment Plant (CTP): This facility has a capacity of 6.7 million gallons per day (MGD) for secondary treatment and was constructed in phases beginning in 1967, with an expansion in 1982. The treatment process is similar to that of the J.B. Latham Treatment Plant, featuring advanced wastewater treatment (AWT) facilities that were initially built in 1982 and further expanded in 1988 to enhance its capabilities.

Regional Treatment PLANT (RTP): This facility has a capacity of 12 million gallons per day (MGD) for secondary treatment, which includes primary sedimentation tanks, scum collection systems, and the reclamation of secondary effluent for irrigation purposes.

The remaining effluent is discharged into the Pacific Ocean through the Aliso Creek Ocean Outfall. Additionally, the plant processes solids from both the CTP and the El Toro Water District for disposal.

Ocean Outfalls: The Aliso Creek Ocean Outfall is a 1.5-mile-long pipeline that discharges treated effluent into the Pacific Ocean. Similarly, the San Juan Creek Ocean Outfall, spanning 2.2 miles, also serves as an ocean discharge facility, providing an additional route for effluent disposal into the ocean.

SOCWA owns buried utilities within the Aliso Creek watershed and has identified four critical sites—Reaches B, C, D, and E—along Aliso Creek and the lower portion of Sulphur Creek. These sites are considered critical infrastructure that require protection against potential channel scour and erosion. SOCWA supports its member agencies through multiple programs aimed at ensuring compliance with the Clean Water Act and National Pollutant Discharge Elimination System (NPDES) permits, ensuring environmental protection and effective wastewater management across the region.

FISCAL YEAR 2024-25 BUDGET | The Capital Improvements budget projects a total spending of \$10,736,572, with \$8,373,572 allocated to Large Capital projects, including planning, design, and construction at three plants and ongoing Effluent Transmission Main projects. The remaining budget covers non-capital and small capital projects, and the budget includes an additional year of detail for FY 2025-26 for future planning.

SOCWA'S INITIATIVES | Our Team will help support SOCWA's Key Initiatives for FY 2024-25 that focus on several areas:

Water Service And Governance: Maintain high-quality clean water service for Member Agency communities. Update the JPA Agreement to better align with current and future needs.

Major Projects: Undertake significant infrastructure projects, including replacements and upgrades at JBL, CTP, and RTP facilities, and improvements to the Effluent Transmission Main (ETM) systems.

Capital Program Management: Continue quarterly invoicing for capital projects to ensure funding aligns with expenditures. Engage in implementing a Salt & Nutrient Management Plan.

Operations And Maintenance (O&M) Enhancements: Focus on regulatory compliance, efficiency improvements, emergency readiness, and staff development. Monitor changes affecting operational costs and biosolids disposal options.

Administrative Improvements: Enhance meeting accuracy, compliance with policies, and streamline processes. Improve Accounts Payable efficiency through automation and continue leveraging AI tools for meeting documentation.

These initiatives are designed to ensure operational efficiency, infrastructure improvement, and effective management practices.

CIP PROJECTS | Services include project management for wastewater conveyance and treatment projects, ranging from small pipeline replacements to complex facility rehabilitations. This may include projects for the decommissioning, replacement, or rehabilitation of pump stations, wastewater treatment facilities, pipelines, and associated infrastructure.

Wastewater Treatment Plant Upgrades: Improvements to systems at the J.B. Latham, Coastal, and Regional Treatment Plants, including upgrades to aeration systems, odor control, and effluent pump stations.

Effluent Transmission Main (ETM) Projects: Replacement of air valves and improvements to trail bridge crossings to protect against erosion.

Odor Control: Upgrading and replacing odor control scrubbers across various facilities to improve air quality.

Infrastructure Rehabilitation: Repaving access roads and enhancing drainage systems to prevent flooding.

Energy Efficiency And Power Supply: Upgrading energy systems, including standby power and motor control centers, to improve facility efficiency and reliability.

Infrastructure And Equipment Upgrades: Aeration system upgrades, energy building improvements, generator replacements, and pump station upgrades.

Structural Repairs: Repairs to chlorine contact basin gates, digester gas piping, and heat exchanger pipes.

System Enhancements: Upgrades to grit, odor control, and polymer systems.

Facility Improvements: Access road repaving, building repairs, and air valve replacements.

Maintenance And Reconstruction: Dewatering room upgrades, drainage pump rehabilitation, and trail bridge improvements.

These projects are part of a larger effort to maintain and improve critical infrastructure within the wastewater management system, ensuring environmental compliance and operational efficiency.

WELL-CONCEIVED SERVICE PLAN

The service plan is crafted to showcase a thorough understanding of SOCWA's project management requirements, specifically for on-call services. It is structured to guarantee the successful delivery of each task while adhering to SOCWA's timeline and budget expectations. SOCWA seeks a project management team that can efficiently handle multiple task orders, focusing on meeting budget and schedule targets, optimizing resource management, and ensuring clear communication and reporting throughout the project lifecycle. Our approach is designed to align with these objectives through the following tasks and subtasks:

PROJECT INITIATION AND PLANNING | Establish a strong foundation for project execution by setting clear expectations, timelines, and communication protocols.

Kickoff Meeting: Meet with SOCWA representatives and key stakeholders to review the scope, schedule, budget, and project goals. Establish roles, responsibilities, communication lines, and points of contact.

Workplan Development: Develop a detailed workplan for each task order, outlining deliverables, timelines, resources, and milestones. Prepare a project schedule using appropriate scheduling software, ensuring it aligns with SOCWA's expectations.

Budget Review and Monitoring: Collaborate with SOCWA to review initial project budgets. Establish budget monitoring procedures to ensure adherence to approved budgets.

DETAILED PROJECT PLANNING | Provide a comprehensive planning phase that sets a clear roadmap for execution, budget adherence, and risk management.

Schedule Development: Create detailed project schedules for each task order, incorporating key milestones, dependencies, and critical paths. Ensure schedules align with SOCWA's requirements and allow for contingencies.

Budget Development and Cost Control: Prepare detailed budget estimates for each task order, covering labor, materials, equipment, and third-party services. Implement cost control measures and financial tracking tools to monitor expenditures.

Risk Management Plan: Identify potential risks, including delays, cost overruns, and regulatory changes. Develop mitigation strategies and a risk response plan.

PROJECT EXECUTION AND MONITORING | Implement the project plan efficiently while ensuring quality, schedule adherence, and budget control.

Task Order Management and Oversight: Assign project managers to oversee the execution of each task order, ensuring completion according to the schedule and budget. Monitor progress through regular updates and reports to SOCWA.

Communication and Coordination: Conduct regular status meetings with SOCWA and project teams to review progress, address issues, and realign objectives. Maintain open communication lines with SOCWA for updates and feedback.

Quality Assurance and Control: Implement a quality assurance plan to ensure work meets SOCWA's standards and complies with regulations. Perform regular quality checks and audits at key project stages.

FINANCIAL MONITORING AND REPORTING | Ensure the project remains on budget with accurate and timely financial reporting.

Cost Tracking and Reporting: Monitor and track project costs in real time, ensuring budget compliance for each task order. Provide SOCWA with regular financial reports detailing expenditures, variance analysis, and forecasts.

Change Order Management: Manage changes to the project scope, schedule, or budget through a formal change order process. Communicate change requests to SOCWA for review and approval before implementation.

PROJECT CLOSEOUT AND EVALUATION | Conclude the project in an organized manner while ensuring all deliverables meet SOCWA's standards.

Final Deliverables and Documentation: Assemble and submit final deliverables, including as-built drawings, inspection reports, and required documentation. Verify that all contractual and regulatory obligations are met.

Project Evaluation and Lessons Learned: Conduct a post-project evaluation with SOCWA to review outcomes, performance, and lessons learned. Document best practices and areas for improvement for future task orders.

This comprehensive service plan is designed to meet SOCWA's project management needs through detailed planning, efficient execution, and diligent monitoring of both schedule and budget. Our approach ensures each task order is completed successfully within the allocated timeframe and budget, with a strong emphasis on clear communication and proactive management. We are confident in our ability to meet SOCWA's objectives and deliver high-quality services.

APPROACH TO MEETING SOCWA'S SCHEDULE AND MONITORING BUDGETS

Our firm is dedicated to fulfilling SOCWA's scheduling requirements by utilizing advanced project management tools and methodologies. We plan to implement the following strategies:

PROACTIVE SCHEDULING | Each task order will have a detailed schedule with built-in contingencies to address potential delays. These schedules will be updated in real-time and regularly communicated to SOCWA.

BUDGET CONTROL | Our team will employ cost management tools to monitor expenditures, ensuring that every task remains within its designated budget. We will conduct regular budget reviews with SOCWA to proactively address any potential cost overruns.

TASK ORDER PROCEDURE

Our firm's extensive experience in on-call project management enables us to effectively handle multiple concurrent task orders without compromising quality or timelines. Each task will be led by a dedicated project manager, ensuring alignment with SOCWA's objectives through continuous communication and robust management processes. We prioritize responsiveness, clear communication, and proactive budgeting to meet project goals efficiently.

Z&K's proven approach, supported by adequate staffing and a streamlined task order process, ensures successful management of multi-task, multi-year contracts, tailored to the City's needs. Below is an outline of our proposed approach for completing task orders:

INITIAL MEETING WITH CITY PROJECT MANAGER AND TASK MANAGERS | A critical initial meeting will be arranged between the City's project manager and the assigned Z&K manager. During this meeting, our project manager will thoroughly review the request, focusing on understanding the City's goals, expectations, and any key project issues. This discussion will also cover the identification of the most suitable team members, ensuring that the right expertise is allocated to the project. Additionally, we will detail the necessary services, establish a realistic project schedule, outline the budget parameters, and clarify assumptions and constraints that may impact the work order. This meeting is essential for aligning both teams' expectations, fostering collaboration, and laying the groundwork for a successful project.

DEVELOP SCOPE OF WORK AND TEAM | Following the initial meeting, our project manager will collaborate with key team members, which may involve assembling a multi-discipline team, depending on the project's requirements. The project manager will lead the effort to develop a comprehensive scope of work, ensuring that each team member's specific contributions are accurately defined. This collective input will then be integrated into a cohesive proposal, which will include detailed descriptions of deliverables, timelines, required resources, and any potential challenges. The proposal will also highlight how the proposed approach aligns with the City's objectives and addresses any identified project risks. This methodical approach has been successfully implemented in our previous on-call contracts, ensuring clear communication and a shared understanding of project goals.

NOTICE TO PROCEED | Once the task order has been thoroughly reviewed, negotiated, and finalized, Z&K will receive a formal notice to proceed from the City. This notice signifies the official start of the project, enabling our team to mobilize resources and commence work according to the agreed-upon scope, schedule, and budget. We will ensure that all necessary preparations, including staff assignments, resource allocation, and preliminary planning, are in place before the work begins. This step is crucial for transitioning from the planning phase to active execution, ensuring that all parties are aligned and ready to move forward.

MONTHLY COORDINATION/PROGRESS MEETINGS | To maintain transparency and keep the project on track, regular monthly coordination and progress meetings will be held. These meetings will provide an opportunity to review the status of ongoing tasks, discuss any challenges or changes, and realign efforts as necessary. We will develop and maintain detailed schedules to identify allowable work windows for each project task, ensuring that all activities are completed within the designated timeframes. Additionally, these meetings will allow for the early identification of any potential delays or issues, enabling proactive solutions to be implemented. The City's project manager will be kept fully informed of the progress through comprehensive updates, ensuring that the project remains on course to meet its objectives.

PROJECT MANAGEMENT APPROACH

Z&K's project management approach is built on years of experience and a proven track record of success, focusing on key strategies: coordination, communication, documentation, QA/QC, and Schedule Management.

COORDINATION | Effective coordination is essential for all task orders, requiring collaboration with various City departments, local agencies, and stakeholders. Z&K has extensive experience managing major on-call contracts for other Southern California agencies, where similar coordination efforts are crucial. We have established and maintained strong relationships with outside agencies, coordinated design efforts with their staff, and secured necessary approvals to advance projects. This expertise will be invaluable in ensuring smooth coordination on each of your projects.

COMMUNICATION | Z&K employs a formal, proactive communication plan to disseminate critical project information promptly, ensuring that there are no surprises. We consistently report progress, identify and prioritize issues, receive feedback, and document progress. From project inception to closeout, our communication efforts are prioritized to ensure that all required actions are documented and addressed in a timely manner. This approach guarantees that the City and all team members are fully informed of the project status at all times. Coupled with regular project progress meetings, this level of communication helps prevent issues and delays while closely monitoring the project schedule and budget.

DOCUMENTATION | Proper documentation is vital for the success of any project. Z&K has a thorough understanding of the document control procedures required for projects funded by various sources. Our document control management policies are designed to comply with the City's specific requirements. Our typical monthly project progress reports include updates on deliverables, utility and outside-agency efforts, cost and schedule snapshots, issue discussions, and recommended resolution actions. These reports are tailored to the City's needs for each project. Z&K's comprehensive approach to coordination, communication, and documentation ensures a transparent process throughout the contract's duration.

QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) | QA/QC is an ongoing task throughout the life of the project. Z&K's QA/QC process for project and construction management begins with the standardization of successful procedures. All projects utilize Z&K's standardized electronic filing system, which is mirrored by a binder-based hard copy system. The electronic filing system is cloud-based and accessible in real-time to all Z&K project team members and, if requested, to the client. Daily, weekly, and periodic correspondence, logs, and reports are regularly reviewed for accuracy, maintenance, aging, issue escalation, appropriateness, potential changes or claims, and contract compliance.

SCHEDULE MANAGEMENT | Our project manager will create and maintain a detailed Microsoft Project schedule. This schedule, along with task lists, deliverables, agency review timelines, and progress reports, will be used to track each task in the project, holding team members accountable for their deliverables. Regular summary reports will be provided, highlighting completed tasks, any changes, and schedule updates as necessary.

By integrating these strategies, Z&K ensures that each project is managed with the highest level of efficiency and transparency, ultimately leading to successful project outcomes for the City.

SCOPE OF WORK

INITIAL PROJECT ASSESSMENT AND SCOPING

Conduct Field Assessments: Perform comprehensive field assessments to identify existing issues that may impact the project.

Project Scoping: Develop a detailed project scope document that outlines objectives, required resources, timelines, and deliverables based on the findings from the field assessments.

PREPARATION AND REVIEW OF SCOPES OF WORK

Create Detailed SOWs: Prepare comprehensive Scopes of Work (SOWs) for various professional services necessary for the project.

Review and Refine SOWs: Critically review SOWs to ensure they meet project objectives, technical requirements, and regulatory standards, making adjustments as necessary.

CONSULTANT AND CONTRACTOR MANAGEMENT

Manage Consultants: Oversee the selection and management of consultants involved in preparing project specifications and engineering plans.

Supervise Engineering Plan Preparation: Ensure consultants develop engineering plans that meet the project's technical standards and align with overall project goals.

PROJECT DOCUMENT MANAGEMENT

Establish Document Management System: Implement a robust system for organizing and maintaining all project-related documents.

Document Tracking: Track and update project documents consistently to ensure all versions are current and accurate throughout the project lifecycle.

DESIGN AND SPECIFICATIONS DEVELOPMENT

Prepare Design Documents: Develop detailed design documents, including plans and specifications, ensuring they meet project and regulatory requirements.

Incorporate Stakeholder Feedback: Gather and integrate feedback from stakeholders and regulatory bodies into the design process to ensure alignment and compliance.

VALUE ENGINEERING AND COST ESTIMATION

Conduct Value Engineering: Perform value engineering to optimize project designs for cost efficiency while maintaining quality and functionality.

Prepare Detailed Cost Estimates: Develop comprehensive cost estimates to support financial planning and ensure the project remains within budget.

ENGINEERING SERVICES DURING CONSTRUCTION

Support During Bidding: Provide engineering support during the bidding process to ensure contractor bids are in line with project specifications.

Construction Oversight: Offer continuous engineering services during the construction phase, addressing technical challenges and ensuring adherence to design specifications.

PROJECT MONITORING AND CONTROL

Monitor Progress: Regularly monitor the project's progress against established schedules and budgets, ensuring milestones are met on time and within budget.

Implement Corrective Actions: Identify deviations from the project plan and implement corrective actions to realign the project with its objectives.

TECHNICAL DOCUMENT COMPILATION AND REVIEW

Compile Technical Documents: Gather and compile all necessary technical documents, including as-built drawings, equipment lists, manuals, and training materials.

Ensure Accuracy: Review all compiled documents for accuracy and completeness, ensuring they reflect the final project specifications.

STAKEHOLDER COORDINATION

Facilitate Effective Communication: Maintain open and consistent communication with SOCWA staff and other key stakeholders to ensure project objectives and deliverables are clearly understood.

Incorporate Feedback: Regularly incorporate stakeholder feedback into the project to ensure alignment and satisfaction with project outcomes.

This detailed summary includes all tasks listed in the scope of work, with added language for clarity, ensuring all aspects of the project are thoroughly addressed and managed.

QUARTERLY/BI-MONTHLY PROGRESS MEETINGS

Conduct Regular Meetings: Organize and conduct Quarterly/Bi-Monthly Progress Meetings with SOCWA Contract Manager and the Proposers Contract Manager.

Discuss Budgetary and Project Management Issues: Focus these meetings on reviewing the contract in its entirety, addressing budgetary issues, task reconciliation, and overall project management.

TASK-SPECIFIC PROGRESS MEETINGS

Conduct Monthly Progress Meetings: Schedule and conduct monthly progress meetings for each project task, which may be held at a designated location or virtually.

Kickoff and Ongoing Meetings: Start with a kickoff meeting initiated by SOCWA, followed by ongoing progress meetings led by the Consultant's Project Manager.

Meeting Agendas:

Recap Objectives: Provide a quick recap of objectives and outcomes from prior meetings.

Progress Updates: Discuss accomplishments, completed milestones, project deliverables, and any changes.

Identify Challenges: Identify and brainstorm solutions for any problems or challenges encountered.

Assign Actions: Assign actions to team members to resolve identified issues.

Risk Management: Identify and analyze new risks, review risk management strategies, and update contingency plans.

Schedule Review: Review the project timeline, identify any deviations, and discuss whether to adjust timelines or accelerate activities.

Billings Review: Provide an overview of the project budget and expenditures, discussing any discrepancies and actions to address them.

Deliverables Status: Report on the status of project deliverables and updates on stakeholder communication.

Stakeholder Communication: Summarize feedback from stakeholders, discuss any concerns, and their implications for the project.

Action Items: Review and assign action items for completion before the next meeting, and set the next meeting date with an agenda review.

Any Other Business (AOB): Address any other business, recap decisions made, and acknowledge team efforts before adjourning the meeting.

FINAL DELIVERABLES AND PROJECT CLOSEOUT

Prepare Final Deliverables: Ensure all project deliverables are completed, reviewed, and compiled for submission to SOCWA.

Conduct Project Closeout: Perform a thorough project closeout process, including a review of all decisions, actions taken, and acknowledgments of contributions before finalizing and closing the project.



3. EXPERIENCE AND TECHNICAL COMPETENCE

3. EXPERIENCE AND TECHNICAL COMPETENCE

TECHNICAL COMPETENCE

Z&K Consultants Inc. is a well-established, small-sized firm with a strong reputation for delivering high-quality engineering and project management services. With over 15 years of industry experience, we have grown to become a trusted partner for public and private sector clients across the region. Our firm is composed of a multidisciplinary team of professionals, including licensed engineers, certified project managers, construction inspectors, and other specialized experts who collectively bring a wealth of knowledge and experience to every project.

KEY HIGHLIGHTS AND DISTINGUISHING FEATURES | Z&K stands out for our proven expertise, tailored approach, and commitment to excellence in project management. Our firm's extensive experience, combined with a highly skilled team and cost-effective solutions, uniquely positions us to meet SOCWA's needs. Below are the key highlights and distinguishing features that set us apart.

Proven Track Record: Z&K has successfully managed over 70 similar contracts and currently holds 55 On-Call/As-Needed contracts with various municipal, county, and state agencies. This extensive experience demonstrates our ability to consistently deliver results that meet or exceed client expectations, particularly in environments similar to SOCWA's.

Tailored Approach to Project Management: Our approach is specifically designed to address the unique challenges of on-call, multi-task, multi-year contracts. We excel in managing complex projects with multiple simultaneous tasks, ensuring that all projects progress smoothly and efficiently. Our management strategy is rooted in comprehensive planning, precise execution, and continuous communication, ensuring that every project is delivered on time, within budget, and to the highest quality standards.

Exceptional Personnel: The strength of our proposal lies in our team. Our key personnel are highly qualified, with specific and extensive experience in the types of projects SOCWA is undertaking. We commit that these individuals will be assigned to the project for its entire duration, ensuring continuity and consistency. Our team's qualifications include licensed engineers, certified construction managers, and specialized experts who are fully prepared to meet SOCWA's needs.

Cost-Effective Solutions: Z&K offers competitive rates based on a time-and-materials approach, ensuring that SOCWA receives high-quality services at a fair and reasonable cost. Our cost proposals are meticulously aligned with the scope of work outlined in the RFP, ensuring transparency and value for SOCWA. Our Team has extensive in-house resources including, computer/iPad capabilities, software applications, modem protocol, modeling programs, training, VPOO Software systems, Scheduling Programs such as Primavera P6, Microsoft Project, Dropbox, CM Procedures Manual, Oracle, Design software, Electronic Document Control Systems (EDCS), Procore, and many other resources to support our Team.

Commitment to Quality and Timeliness: Z&K's commitment to delivering timely and quality work is demonstrated through our systematic approach to project management. From initial scope and budget development to project execution and final delivery, we maintain a strong focus on meeting deadlines and ensuring that the work meets SOCWA's stringent quality standards.

LOCAL ORGANIZATIONAL STRUCTURE | Z&K operates with a well-defined local organizational structure designed to provide efficient and responsive service to SOCWA. Our project teams are led by experienced project managers who are supported by a dedicated team of engineers, inspectors, and administrative staff. This structure ensures that we can quickly mobilize resources and respond to project needs as they arise. Our local presence allows us to maintain close communication with SOCWA, ensuring that all project objectives are met promptly and effectively.

FINANCIAL STABILITY, CAPACITY, AND RESOURCES | Z&K is financially stable and has the capacity to undertake projects of significant size and complexity. Our firm's solid financial foundation is supported by prudent management practices and a diverse portfolio of contracts, ensuring that we have the resources necessary to fulfill all contractual obligations. We maintain sufficient liquidity to manage multiple projects simultaneously, and our financial health enables us to invest in the best talent, technology, and tools required to deliver exceptional service. In addition to our in-house resources, Z&K has established strong relationships with subcontractors and suppliers, further enhancing our ability to meet project demands. We are fully equipped to handle SOCWA's projects, regardless of scale or complexity, and are committed to allocating the necessary resources to ensure their success.

CONTACTS FOR PROPOSAL COMMUNICATION | Please refer below for a list of individuals and their contact information related to this proposal. This sheet provides details on how to communicate with key personnel involved in the project, ensuring that SOCWA has direct access to the resources necessary for effective collaboration.

NAME	POSITION	EMAIL ADDRESS	PHONE NUMBER
Zack Faqih	Principal-In-Charge	zfaqih@zandkconsultants.com	(949) 637-5040
Crystal Fraire	Senior Project Manager	cfraire@zandkconsultants.com	(951) 310-7470
Brittany Duhn	Senior Project Manager	bduhn@zandkconsultants.com	(714) 788-9965
Amer Jakher	Senior Project Manager	ajakher@zandkconsultants.com	(951) 415-2403

Additional Staff contact information will be provided upon contract award.

Z&K Consultants is not just another service provider; we are the A-Team that SOCWA can trust to deliver excellence. With our deep bench of experienced project managers, comprehensive support staff, technical support staff in all specialties, and strong teaming partners in Ardurra and Converse, we are fully prepared to exceed your expectations and contribute to the successful delivery of your critical projects.

PROJECT EXPERIENCE

Our Projects include the following similarities to SOCWA's upcoming projects:

- | | | |
|----------------------------------|--------------------------------|--|
| ✓ Infrastructure Upgrades | ✓ Scum Line Replacements | ✓ Project Management |
| ✓ Equipment Replacement | ✓ Chlorine Contact Basin Gates | ✓ Construction Management |
| ✓ Structural Repairs | ✓ Digester Gas Piping | ✓ Design Review |
| ✓ System Enhancements | ✓ Heat Exchanger Pipes | ✓ Bidding Assistance |
| ✓ Maintenance and Reconstruction | ✓ Grit System Upgrades | ✓ SWPPP Review |
| ✓ Aeration System Upgrades | ✓ Odor Control Systems | ✓ Traffic Control |
| ✓ Energy Building Improvements | ✓ Polymer Systems | ✓ Geotechnical and Material Testing Coordination |
| ✓ Process Water Re-Piping | ✓ Access Road Repaving | ✓ Public Relations Management |
| ✓ Generator Replacements | ✓ Building Repairs | ✓ Labor Compliance Oversight |
| ✓ Pump Station Upgrades | ✓ Air Valve Replacements | ✓ QA/QC |
| | ✓ Dewatering Room Grades | |
| | ✓ Drainage Pump Rehabilitation | |

The Z&K Team has successfully performed Project Management services for projects for numerous public agencies. **The following projects have been completed on time and within budget.**

CITY OF CHINO (ON-CALL CONTRACT)

WELL 11 RAW WATER TRANSMISSION MAIN PROJECT | The work involved furnishing all labor, materials, and equipment to install approximately 1.5 miles of new 16-inch water main using PVC and CML&C steel, including associated fittings, valves, blow-off assemblies, and combination air valves. Construction was carried out in existing city streets. Additionally, the project required modifications to the existing control panel, programming, SCADA host system, and the provision of a new HMI and programming. **Construction Cost: \$2.6M**

WELLS 4 & 6 WATER TREATMENT FACILITY | This involved groundwater Wells 4 and 6, which had been inactive due to updated regulations requiring higher drinking water standards set by the SWRWQCB. The City aimed to reduce reliance on imported water and expand access to local groundwater supplies, as outlined in the City of Chino Water Master Plan Update from January 2020. Wells 4 and 6 were identified as priority projects in this plan. To achieve these goals, the City embarked on a new centralized groundwater treatment plant to bring the wells back into service, reducing the purchased water supply by up to a quarter. The treatment plant, designed to handle 1,700 gallons per minute (gpm), would contribute to approximately 34% of the average day demand within the pressure zone, which supplies 52% of the overall service area. The project included constructing a new 2 million gallon per day (MGD) groundwater treatment facility and connecting the two wells, which were inactive due to water quality contamination from historical agricultural and manufacturing activities in the Chino Basin. **Construction Cost: \$10M**

WELL 17 EQUIPPING PROJECT | The Project includes equipping and operating existing Well 17. The improvements were confined to the well location, except for pipe and electrical conduit trenches that crossed the Eastside Water Treatment Facility (EWTF) site to connect to existing facilities. The project included grading and compaction for the well building, building access, and pump-to-waste swale. The well building was designed to enclose the wellhead pump and piping and is constructed of masonry block shear walls supported by a continuous footing foundation. The pump-to-waste swale extended the existing defined earthen channel connected to the EWTF percolation pond. **Construction Cost: \$4M**

CENTRAL AVENUE AND DUPONT AVENUE WATERLINE REPLACEMENT PROJECT | The Central Avenue project involved replacing a 16-inch steel water main with an 18-inch PVC pipe along Central Avenue from Chino Avenue to C Street, and replacing an 8-inch steel line on D Street from Central Avenue to the alley west of 6th Street. The project included connections to Chino Avenue, D Street, Alley 16, and two other alleys, with line stops for tie-ins due to insufficient valving. The Dupont Avenue project included replacing an 8-inch DIP waterline with a 12-inch C-900 PVC pipe along Dupont Avenue from Alton Street to Gates Street, and also involved replacing multiple water service connections and fire service laterals. **Construction Cost: \$5.8M**

RUSSELL AVENUE WATER LINE REPLACEMENT PROJECT | The project involved removing and replacing the water main along Russell Ave from Walnut Ave to Terry Ave. It included installing 700 linear feet of new 8-inch PVC C900 DR 14 water main, performing trench backfill and roadway repairs, and installing fire hydrant assemblies, gate valves, and tees with thrust blocks. The work also encompassed installing new 1-inch domestic water service laterals and connecting them to existing water meters, making lateral connections within 3 feet of the water main centerline, saw cutting, and replacing existing cross gutters. Additionally, the project required cutting, plugging, and abandoning the existing water main and removing old fire hydrants. **Construction Cost: 2.3M**

YORBA AVENUE AND EUCALYPTUS AVENUE SEWER MAIN REPLACEMENT PROJECT | The work included replacing existing 10-inch and 15-inch vitrified clay pipe (VCP) sewer mains with larger diameter VCP or high-density polyethylene (HDPE) pipe using a combination of trenchless and open trench methods. It involved installing steel casing across railroad property, setting up temporary bypasses, and replacing or rehabilitating existing sewer manholes. The project also required removing existing sewer manholes, reconnecting sewer laterals, and performing pipe backfill and bedding with asphalt concrete overlay for trench repairs. Additional tasks included adjusting existing utility lines, making full-depth asphalt concrete pavement repairs, applying slurry seal, crack sealant, and weed abatement, restoring traffic detector loops, performing striping and traffic control, conducting night work, and carrying out post-construction closed-circuit television (CCTV) inspections. **Construction Cost: \$3.5M**

CITY OF CORONA (ON-CALL CONTRACT)

LIBERTY AVENUE WATERLINE REPLACEMENT PROJECT | This project involves replacing a 10-inch steel water main with a 12-inch ductile iron pipe over 3,527 linear feet along La Gloria St. and Liberty Ave. The scope includes installing a 12-inch ductile iron pipe with restrained joints, various water control components (such as air/vacuum release valves, fire hydrant blow-off assemblies, and resilient wedge gate valves), and a new water service connection. It also includes removing and replacing existing infrastructure (like vaults and bollards), trench repairs, roadway repairs, asphalt dike replacement, and concrete encasement. The project will also involve abandoning the old water main, implementing traffic control and BMPs, and managing water consumption, disinfection, and flushing. Additional tasks include mobilization, demobilization, and setting up an informational project sign. **Construction Cost: \$1.6M**

WATER RECLAMATION FACILITY 2 (WRF #2) ELECTRICAL UPGRADES | The current MCCs for WRF No. 2 Aeration, along with the Sunkist Lift Station, reached their useful life and required necessary electrical upgrades to ensure reliable performance and proper functioning of water treatment and Sunkist lift station facilities. The project involved the removal of existing Motor Control Centers (MCCs) and the installation of new, City-furnished MCC units into prefabricated powerhouses. Site work included civil, yard piping, and mechanical tasks. A detailed survey of locations for the new MCC housing structures was conducted, and a base map of the project area was prepared. Site demolition and the installation of reinforced concrete pads and foundations for the new MCC structures were completed. Pre-built electrical control powerhouses and awnings were installed, one near the Main Control Room and one near the Sunkist Pump Station. New MCC-I and MCC-L units were installed into the new powerhouses, and the existing units were removed and legally disposed of. All civil, yard piping, mechanical, and electrical work as outlined in the contract documents was performed, along with testing, startup, and commissioning as specified in the commissioning section. **Construction Cost: \$2.7M**

CITY OF FULLERTON (ON-CALL CONTRACT)

LONGVIEW DRIVE WATER/SEWER MAIN REPLACEMENT & STREET IMPROVEMENTS | The water, sewer, and street rehabilitation project for the City of Fullerton involved several key tasks. It included the replacement of 2,500 linear feet of 8-inch ductile iron water main and 2,500 linear feet of 8-inch vitrified clay pipe (VCP) sewer main, along with the installation of new manholes and the removal and replacement of existing sewer pipes. The project also involved video inspection and abandonment of old water mains and valves.

Additionally, the project featured street and drainage improvements, including asphalt paving, cold planning, concrete paving, aggregate base, curb and gutter, access ramps, cross gutters, driveway approaches, and sidewalk replacement. **Construction Cost: \$3.2M**

VALENCIA AVENUE WATER MAIN REPLACEMENT | This water rehabilitation project for the City of Fullerton involved replacing 2,500 linear feet of 8-inch C-900 water main pipeline and appurtenances, as well as abandoning and removing existing pipelines and valves. The project included trench excavation, shoring, backfill, and pipe welding. It also featured street and drainage improvements, such as cold planning, asphalt and concrete paving upgrades, aggregate base installation, access ramps, cross gutters, sidewalk replacement, and traffic control. Additionally, the work encompassed the installation and inspection of traffic signals and loops, along with the application of roadway striping, signage, and reflective markings. **Construction Cost: \$1.5M**

CITY OF LONG BEACH, UTILITIES DEPARTMENT (ON-CALL CONTRACT)

HAYNES GENERATING STATION SEWER FORCE MAIN PROJECT | The project involved constructing a new 12-inch diameter sewer force main extending from the Los Angeles Department of Water Power's (LADWP) Haynes Generating Station (HGS) to an existing 42-inch sewer main at the Los Angeles County Services District (LACSD) Long Beach Water Reclamation Facility. The project facilitated the reuse of up to 2.841 million gallons per day (MGD) of industrial wastewater discharge and stormwater runoff from the HGS to the Long Beach Water Reclamation Facility. A total of 17,000 feet of pipeline was installed using trenching and trenchless methods. Additionally, a flow control/pressure reducing station, not exceeding 300 square feet, was constructed near the Long Beach facility. **Construction Cost: \$20M**

LADWP GWTP-1 AND GWTP-2 NEW WELLS | The project involves drilling, developing and constructing two municipal water wells: GWTP-1 and GWTP-2 on the City of Long Beach's Groundwater Treatment Plant property. The project will also include the destruction of an existing monitoring water well known as Citizen 6 Well. **Construction Cost: \$12M**

LADWP HAYNES GENERATING STATION RECYCLED WATER PIPELINE PROJECT | The project involves installing a 24-inch diameter pipeline over approximately 7,940 linear feet from the Haynes Generating Station to connect with the LBWD 21-inch recycled water pipeline at Atherton Street and Studebaker Road. Key components include installing 5,600 LF of 24-inch DR17 HDPE pipeline, 1,800 LF of 16-inch DR17 HDPE pipeline, and 360 LF of 16-inch welded steel pipe, along with a 250 LF trenchless crossing under Caltrans SR-22. The scope also covers a 12-inch service connection at Haynes Generating Station, a 370-LF 12-inch HDPE sewer force main, and service connections for City of Long Beach Public Works. **Construction Cost: \$24M**

GOLDEN AVENUE WATER MAIN REPLACEMENT PROJECT | The work consisted of replacing an existing 6-inch ductile iron water main with new non-metallic piping along Golden Avenue between Spring St. and 32nd St. Additionally, 48 copper water services were replaced with new non-metallic piping. The project also included replacing existing water valves to improve system functionality and reliability and installing three new fire hydrants to enhance fire protection capabilities in the area. All work was carried out to ensure compliance with local standards and improve the overall water infrastructure on Golden Avenue. **Construction Cost: \$5M**

WELLS COMMISSION 23A AND EL DORADO | The project included drilling and equipping four new wells and the destruction of two existing wells. The project involved site assessments, construction of pressurized conveyance pipelines, well enclosures, site improvements, electrical work, and supervisory controls (SCADA) work. Additionally, the project included the new conveyance lines connecting the new wells to Long Beach Water Department's main collection lines. The proposed well sites were located at Camp Fire 1 (CF 1), Commission 23A (COM 23A), El Dorado 1 (DOR 1), and Citizens 8A (CIT 8A). **Construction Cost: \$25M**

WELLS ALAMITOS 9A AND ALAMITOS 14 | The project involves the abandonment of four existing groundwater wells Annex 201 (2956 Ladoga Avenue), Commission 13 & Annex 203 (3412 N Studebaker Rd), and Alamos 9 (Stearns Champion Park) in the system and the installation of two new replacement groundwater wells Alamos 9A and Alamos 14 with estimated yield of 2,500 gallons per minute per well at Stearns Champion Park. Project also includes piping to connect Well Alamos 9A and Alamos 14 to an existing collection main pipeline on East 23rds Street, and other appurtenances. The existing Groundwater Treatment Plant will be used to chlorinate the water from both wells. **Construction Cost: \$12M**

ALAMITOS TANKS 19 & 20 CONVERSION PROJECT | The project involved rehabilitating and converting Alamos Tanks 19 and 20 from potable water to recycled water tanks. This included interior and exterior coating rehabilitation, lead containment and abatement, halo support retrofit, rafter replacement and reinforcement, seismic rod replacement, and side vent installation in the tank shell. The project also included replacing the cathodic protection system, welding connections, hardware, and installing steel handrails. Various piping modifications were made, including inlet/outlet, overflow, and drain piping, as well as sump and yard piping modifications. Additionally, valves and appurtenances were replaced or installed, including a liquid level indicator, safety tie-offs, a magnetic flowmeter, and roof vent screens. Electrical upgrades, site restoration, floor plate cathodic protection anodes, and a packed booster pumping station with its related appurtenances were also installed. **Construction Cost: \$6M**

EQUIPPING OF WATER WELLS NORTH LONG BEACH 13 AND NORTH LONG BEACH 14 | The project involved equipping Water Wells North Long Beach 13 and North Long Beach 14. It included installing well pumps, constructing pipelines, performing utility and underground work, and setting up water system plants and electrical systems. The scope also covered maintenance and repair services for well equipment and pumps. Key items included general construction, water system construction, well services, equipment maintenance, and electrical work related to pump installations and system upgrades. **Construction Cost: \$5M**

S-25 SEWER LIFT STATION REHABILITATION | The project involved replacing the mechanical and electrical systems inside the lift station, including pumps, ventilation, piping, electrical conduits, instrumentation, and the diesel-powered standby generator. It also included installing a new maintenance hole (MH) and 12-inch VCP, paving an AC access path, and relocating the bypass pumping connection to outside the lift station. The new MH was interconnected with an existing manhole and accessed via a new AC paved driveway, with a short concrete masonry wall constructed to retain the MH. A bypass pumping system was required for construction. **Construction Cost: \$4M**

LARGE POTABLE WATER VALVE REPLACEMENT WILLOW STREET PROJECT | The project involved replacing existing 20-inch gate valves with new 20-inch butterfly valves in the Long Beach Water System. The work required protecting and supporting existing utilities, excavating to expose large valves and piping, and constructing linestop assemblies and restraint systems. The gate valves were replaced at three locations: Willow Street and Delta Avenue, Willow Street and Santa Fe Avenue, and Spring Street and Delta Avenue. Additional tasks included leakage testing, disinfection of improvements, backfilling excavations, and restoring pavement. **Construction Cost: \$1M**

CITY OF OCEANSIDE (ON-CALL CONTRACT)

PURE WATER OCEANSIDE – ADVANCED WATER PURIFICATION FACILITY (AWPF) | The project involves constructing a new Advanced Water Purification Facility (AWPF) with an initial capacity to produce 4.5 million gallons per day (MGD) of advanced treated recycled water, expandable to a minimum of 6.0 MGD in the future. Key components include nitrification-denitrification facilities, and an AWPF process building featuring a feed tank, pump station, ultra-filtration, reverse osmosis, ultraviolet light advanced oxidation, and product water pump station. Elements include a waste equalization wet-well and pump station, a pipeline to the plant headworks, a new reverse osmosis concentrate pipeline to the secondary effluent pump station at the SLRWRF, and chemical storage and feed facilities. **Construction Cost: \$55M**

SAN LUIS REV (SLR) WASTEWATER TREATMENT PLANT AERATION BASIN EFFLUENT PIPING REPLACEMENT | The work involved providing all necessary tools, equipment, materials, supplies, and labor for the removal and replacement of six 24-inch aeration basin effluent pipes. This included installing new plug valves, fittings, and pipes, as well as wall penetrations, gate valves, and flow meters. The contractor supplied transportation, fuel, power, water, and bypass pumping, ensuring all operations comply with the Contract Documents. **Construction Cost: \$1.2M**

PILGRIM CREEK SEWER LIFT STATION IMPROVEMENT PROJECT | The Pilgrim Creek Sewer Lift Station in Oceanside, originally constructed in 1976, underwent a comprehensive rehabilitation project. This project included extensive civil, mechanical, structural, electrical, and controls upgrades. Key improvements involved modifying the existing panel, installing new variable frequency drives, service conduits, and conductors, and adding a Supervisory Control Data Acquisition (SCADA) system for suction pressure transducer feedback. The rehabilitation replaced the old submersible pumps with three new chopper pumps on slide rail systems, combined the wet well and dry well into a single large wet well, and replaced the concrete containment area with a new valve vault. These upgrades enhanced storage capacity, improved safety, and provided better access and working conditions for maintenance staff. **Construction Cost: \$1.6M**

ADDITIONAL PROJECTS

CITY OF BEAUMONT, WWTP SALT MITIGATION UPGRADE PROJECT & BRINE DISPOSAL PIPELINE PROJECT |

The City operates the Treatment Plant, which treats domestic and commercial wastewater from Beaumont and the Highland Springs area. Originally designed to handle up to 4 million gallons per day, the facility now has a capacity of 6 MGD. The project involved extensive upgrades including partial site demolition, construction of new facilities, and modification of existing systems. Key improvements included the installation of new headworks screens, grit chambers, fine screening structures, aeration basins, and a membrane bioreactor (MBR) building. Work included odor control systems, and new pump stations, as well as updating electrical systems and civil infrastructure. The City's salt mitigation measure included reverse osmosis (RO) as well as a 23-mile long Brine Line commencing at the Facility and terminating at the City of San Bernardino's connection point to the Inland Empire Brine Line for exporting excess salt. **Construction Cost: \$80M**

CITY OF BURBANK, VALLEY PUMPING PLANT (VPP) BOOSTER STATION REHABILITATION PROJECT | The project involved the demolition and replacement of various components in an existing pump station. This includes pumps, pump pads, connecting pipes, valves, and instruments, as well as electrical motor control cabinets, Variable Frequency Drives (VFDs), transformers, and associated wiring. Additionally, the project required updating the programmable logic controller (PLC) and remote I/O units, including new programming and conduit installation for communication, which involves trenching. **Construction Cost: \$3.2M**

CITY OF HEMET, SEWER MAIN REPLACEMENT PROJECT | The project involved bypass pumping, removal or abandonment of existing sewer facilities, and the installation of new 8-inch PVC sewer mains and sewer manholes. It also included connecting existing laterals to the new mains and conducting trench repairs. The work was performed along Kirby Street (from Devonshire Ave. to Florida Ave.), Gibbel Park (from G.P. Restrooms to Kirby St.), Florida Ave (from Kirby St. to Gilmore St.), and Thompson Street (from Acacia to Central Ave., with the sewer main located on the opposite side of the street), following the approved plans and specifications. **Construction Cost: \$1.3M**

CITY OF PICO RIVERA, WATER MAIN REPLACEMENT PROJECT | The Water Main Replacement Project addressed outdated pipelines at various locations, including Eglise Ave., Cord Ave., Hasty Ave., Sideview Dr., Songfest Dr., Bennington Ave., Farmland Ave., Woodford St., Sandoval Ave., and Washington Blvd. These pipelines, which had been in service for 70 years, were causing inefficiencies and water loss, indicating they were at the end of their service life. The project involved replacing approximately 4,240 linear feet of 8-inch, 3,000 linear feet of 10-inch, and 2,750 linear feet of 18-inch water lines, as well as associated valves, domestic services, and fire hydrant assemblies. **Construction Cost: \$6.5M**

CITY OF RIVERSIDE, LINCOLN AVENUE TECHITE PIPE REPLACEMENT PROJECT, PHASE I | The project involved constructing approximately 3,400 linear feet of 54-inch cement mortar-lined steel pipe and related appurtenances along Lincoln Avenue in the City of Riverside. This included trenching in the public right-of-way, welding steel pipe, and installing various infrastructure elements. The excavation varied from 4 to 18 feet deep and affected local residential and arterial streets. The scope covered traffic control, including signalized intersections and striping, as well as asphalt paving and concrete work. **Construction Cost: \$7M**

CITY OF SANTA MONICA, OLYMPIC WELL FIELD RESTORATION AND ARCADIA WTP EXPANSION | The project involved constructing a new Olympic Advanced Water Treatment Facility (AWTF) at the Arcadia WTP to address contaminants such as 1,4-Dioxane and TCE using advanced oxidation processes and granular activated carbon. It also included upgrading the Arcadia WTP to increase its water recovery to over 90% with Flow Reversal RO technology, expanding capacity from 10 to 13 mgd. The upgrades at the Arcadia WTP featured new filtration systems, chemical storage, RO feed pumps, UV reactors, and expanded facilities. Additionally, the project included installing a new AOP system and hydrogen peroxide storage at the Olympic AWTF, isolating existing filters for pretreatment, and upgrading electrical systems and transformers to support the enhancements. **Construction Cost: \$70M**

CITY OF TORRANCE, VAN NESS WATER WELLS TRANSMISSION MAIN | This city-funded project involved installing potable water mains to transport well water from three wells near Artesia Boulevard and Van Ness Avenue to a storage, treatment, and pumping facility near Border Avenue and Plaza Del Amo. The work included constructing 30-inch, 24-inch, and 18-inch water transmission mains using steel and ductile iron, as well as installing storm drains, catch basins, and relocating sewer pipes and manholes. **Construction Cost: \$10M**

CITY OF VERNON | 50th STREET WATER MAIN REPLACEMENT PROJECT | The project involved replacing a 12-inch water pipeline and updating existing water services. It included mobilization, excavation, potholing, and site cleanup, as well as installing new ductile iron pipe, joint bonding, and cathodic protection. The work required developing and implementing approved traffic control and shoring plans, maintaining a Stormwater Pollution Prevention Plan (SWPPP), and coordinating the installation of various service laterals and fire hydrants. The contractor also depressurized and abandoned an existing 10-inch cast iron main, ensuring proper testing, disinfection, and site restoration. **Construction Cost: \$1.6M**

WESTERN MUNICIPAL WATER DISTRICT (WMWD) | VICTORIA AVENUE RECHARGE WATER FACILITY | The Victoria Avenue Recharge Water Facility was developed to address the increasing need for a local water resource to enhance groundwater production and management. In response, the Western Municipal Water District implemented the installation of new groundwater extraction wells at the 10-acre site on Victoria Avenue and Jackson Street, which aimed to recharge the Arlington basin by more than 3,000 acre-feet annually. The project included grading recharge and detention basins, constructing access roads, concrete masonry unit walls, fencing, and site restoration. Key elements included the installation of non-potable and potable water pipelines, stormwater inlet structures, and conveyance channels. It also involved the construction of a SCADA and storage building, along with comprehensive onsite electrical, instrumentation, and monitoring wells to ensure a fully operational system. **Construction Cost: \$8M**

CURRENT ON-CALL LIST

Z&K has successfully delivered over 70 similar Contracts and currently holds 55 On-Call/As-Needed Contracts serving in a similar capacity over the past 5 years for Municipal, County, and State Agencies. Z&K understands the nature of as-needed contracts and has the depth of resources and expertise required to properly service those contracts.

CURRENT ON-CALL CONTRACTS			
#	AGENCY	SERVICES PROVIDED	TERM
1	City of Alhambra	On-Call Construction Management and Inspection Services	2023 - 2025
2	City of Beaumont*	On-Call Public Works Inspection	2017 – 2025
3	City of Beaumont*	On-Call Project Management Services	2017 – 2025
4	City of Beaumont*	On-Call Construction Management Services	2017 – 2025
5	City of Bell	On-Call Project Management Services	2022 - 2025
6	City of Bell	On-Call Construction Management, and Inspection Services	2022 - 2025
7	City of Carson	On-Call Construction Management and Inspection Services	2023 - 2026
8	City of Carson	On-Call Project Management Services	2023 - 2026
9	City of Chino*	On-Call Project Management Services	2020 – 2025
10	City of Chino*	On-Call Construction Management Services	2022 – 2025
11	City of Chino*	On-Call Inspection Services	2020 – 2025
12	City of Corona*	On-Call Public Works Inspection Services	2020 – 2026
13	City of Corona*	On-Call ADA Inspection Services	2020 – 2026
14	City of Costa Mesa	On-Call Public Works/Engineering Staff Support Services	2023 - 2026
15	City of Eastvale	On-Call Construction Management Services	2022 – 2025
16	City of Eastvale	On-Call Public Works Inspection Services	2022 – 2025
17	City of Eastvale	On-Call Project Management Services	2022 – 2025
18	City of El Segundo	On-Call Construction Management & Inspection Services	2022 - 2025
19	City of Hemet	On-Call Project Management Services	2022 - 2025
20	City of Hemet	On-Call Construction Management & Inspection Services	2022 - 2025
21	City of Irwindale*	On-Call Construction Management Services	2022 – 2025
22	City of La Mirada	On-Call Construction Management Services	2023 - 2026
23	City of Laguna Beach	On-Call Construction Management and Inspection Services	2023 - 2025
24	City of Lake Forest	On-Call Construction Management and Inspection Services	2019 - 2025
25	City of Lancaster	On-Call Construction Management and Inspection Services	2021 – 2025
26	City of Manhattan Beach*	On-Call Construction Management Services	2023 – 2026
27	City of Manhattan Beach*	On-Call Project Management Services	2022 – 2025
28	City of Moreno Valley	On-Call Construction Management and Inspection Services	2019 – 2025
29	City of Newport Beach	On-Call Project Management Services	2023 – 2026
30	City of Norco	On-Call Professional Inspection Services for the Bldg. Dept.	2021 – 2025
31	City of Norco*	On-Call Construction Management and Inspection Services	2021 – 2025
32	City of Oceanside*	On-Call Construction Management Services	2019 – 2025
33	City of Oceanside*	On-Call Project Management Services	2019 – 2025
34	City of Palm Desert	On-Call Construction Management and Inspection Services	2023 - 2025
35	City of Pomona	On-Call Construction Management and Inspection Services	2021 – 2025
36	City of Rancho Pales Verdes	On-Call Construction Management Services	2022 – 2025
37	City of Riverside	On-Call Construction Management and Inspection Services	2023 - 2026
38	City of Rosemead	On-Call Construction Management and Inspection Services	2021 - 2025
39	City of San Bernardino*	On-Call Public Works Inspection Services	2019 – 2026
40	City of San Bernardino*	On-Call Project Management and Construction Management	2019 – 2026
41	City of San Marino	On-Call Construction Management and Inspection Services	2019 - 2025
42	City of Santa Monica	On-Call Construction Inspection Services	2020 - 2026
43	City of South Gate	On-Call Construction Management and Inspection Services	2019 - 2025
44	City of Temecula	On-Call Construction Management Services	2019 – 2025
45	City of Torrance	On-Call Construction Inspection Services	2021 - 2025
46	County of Los Angeles	On-Call Construction Management and Inspection Services	2019 – 2025
47	RCTD*	On-Call Construction Management and Inspection Services	2022 – 2025
48	San Bernardino County	On-Call Construction Management and Inspection Services	2022 – 2025
49	Long Beach Utilities*	On-Call Program, Project, and Construction Management	2021 – 2026
50	Los Angeles County PW	On-Call Engineering and Project Management Support	2022 – 2025
51	City of Ontario	On-Call Project Management Services	2024 – 2027
52	City of Irvine	On-Call Construction Management Services	2024 – 2027
53	City of Irvine	On-Call Inspection Services	2024 – 2027
54	City of Pico Rivera	On-Call Construction management and Inspection Services	2024 – 2027
55	City of Placentia	On-Call Construction management and Inspection Services	2024 – 2027

**Multiple Contract Extensions*



4. PROPOSED INNOVATIONS

4. PROPOSED INNOVATIONS

Z&K Consultants Inc. is dedicated to not only meeting SOCWA's project management needs but also enhancing service delivery through innovative approaches and technical advancements. Drawing on our extensive experience, we have identified several strategies and innovations that have proven successful in other engagements and could offer significant benefits to SOCWA.

INTEGRATED PROJECT MANAGEMENT SOFTWARE | To streamline project oversight, Z&K proposes the implementation of a robust, cloud-based project management software. This platform would allow for real-time tracking of project progress, documentation, and communication between all stakeholders. Features such as automated reporting, schedule tracking, and budget monitoring provide a comprehensive view of the project's status, ensuring transparency and enabling swift decision-making. By adopting this technology, SOCWA can expect improved efficiency and enhanced collaboration across all project phases.

VALUE ENGINEERING WORKSHOP | We suggest conducting value engineering workshops at critical stages of the project. These workshops bring together key stakeholders to evaluate project components and identify opportunities for cost savings, enhanced performance, and risk mitigation. This proactive approach ensures that the project remains aligned with SOCWA's goals while maximizing value and minimizing unnecessary expenditures.

SUSTAINABLE CONSTRUCTION PRACTICES | In line with SOCWA's commitment to environmental stewardship, Z&K recommends integrating sustainable construction practices into project planning and execution. This includes the use of environmentally friendly materials, energy-efficient technologies, and waste reduction strategies. By incorporating these practices, SOCWA can achieve long-term operational savings and contribute positively to environmental sustainability.

ENHANCED PUBLIC OUTREACH AND COMMUNICATION | Recognizing the importance of community engagement, we propose an enhanced public outreach strategy that includes digital platforms, interactive community meetings, and regular updates through social media and dedicated project websites. This approach ensures that the public is well-informed and supportive of the project, reducing potential conflicts and fostering a positive relationship between SOCWA and the community.

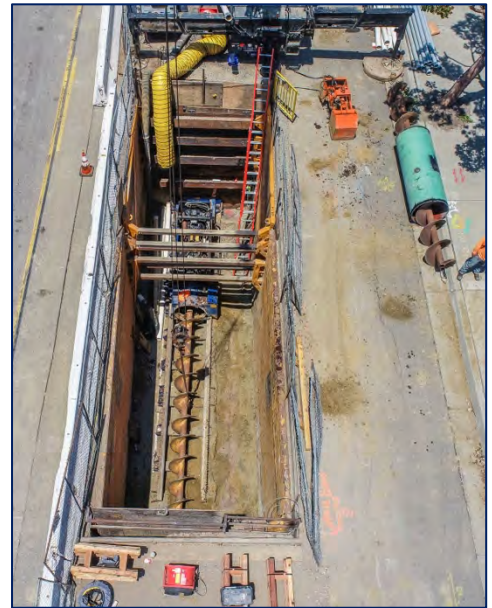
ADVANCED DATA ANALYTICS FOR PROJECT OPTIMIZATION | Z&K also proposes the use of advanced data analytics to optimize project performance. By analyzing historical data, current project metrics, and predictive modeling, we can identify potential issues before they arise, optimize resource allocation, and ensure that projects are delivered on time and within budget. This data-driven approach enhances decision-making and provides SOCWA with a clear, evidence-based pathway to success.

COLLABORATIVE PROJECT DELIVERY MODELS | We suggest exploring collaborative project delivery models such as Integrated Project Delivery (IPD) or Design-Build, which have been successful in fostering greater teamwork, reducing project timelines, and minimizing costs. These models encourage early involvement of all stakeholders, leading to more cohesive planning and execution, ultimately benefiting SOCWA with more efficient and cost-effective project delivery.

ENHANCED DATA MANAGEMENT AND BIM INTEGRATION | Z&K recommends the integration of Building Information Modeling (BIM) into the project management process. BIM allows for the creation of detailed 3D models that include data on the physical and functional characteristics of the infrastructure. By integrating BIM with our project management software, we can enhance coordination between design, construction, and operations, reducing errors and rework. This approach also facilitates better asset management and maintenance planning, providing SOCWA with a comprehensive digital twin of its infrastructure.

MODULAR CONSTRUCTION AND OFF-SITE FABRICATION | To further reduce project timelines and improve quality, Z&K suggests the use of modular construction techniques and off-site fabrication. By assembling components in a controlled environment, we can ensure higher precision and quality, while also reducing on-site construction time and minimizing disruption to existing facilities. This approach is particularly beneficial for projects with tight schedules or those located in areas with limited access.

By incorporating these innovative strategies and technologies, Z&K aims to deliver a project management approach that not only meets SOCWA's immediate needs but also positions your projects for long-term success. These innovations reflect our commitment to providing SOCWA with cutting-edge solutions that drive efficiency, reduce costs, and enhance the overall quality of service delivery.





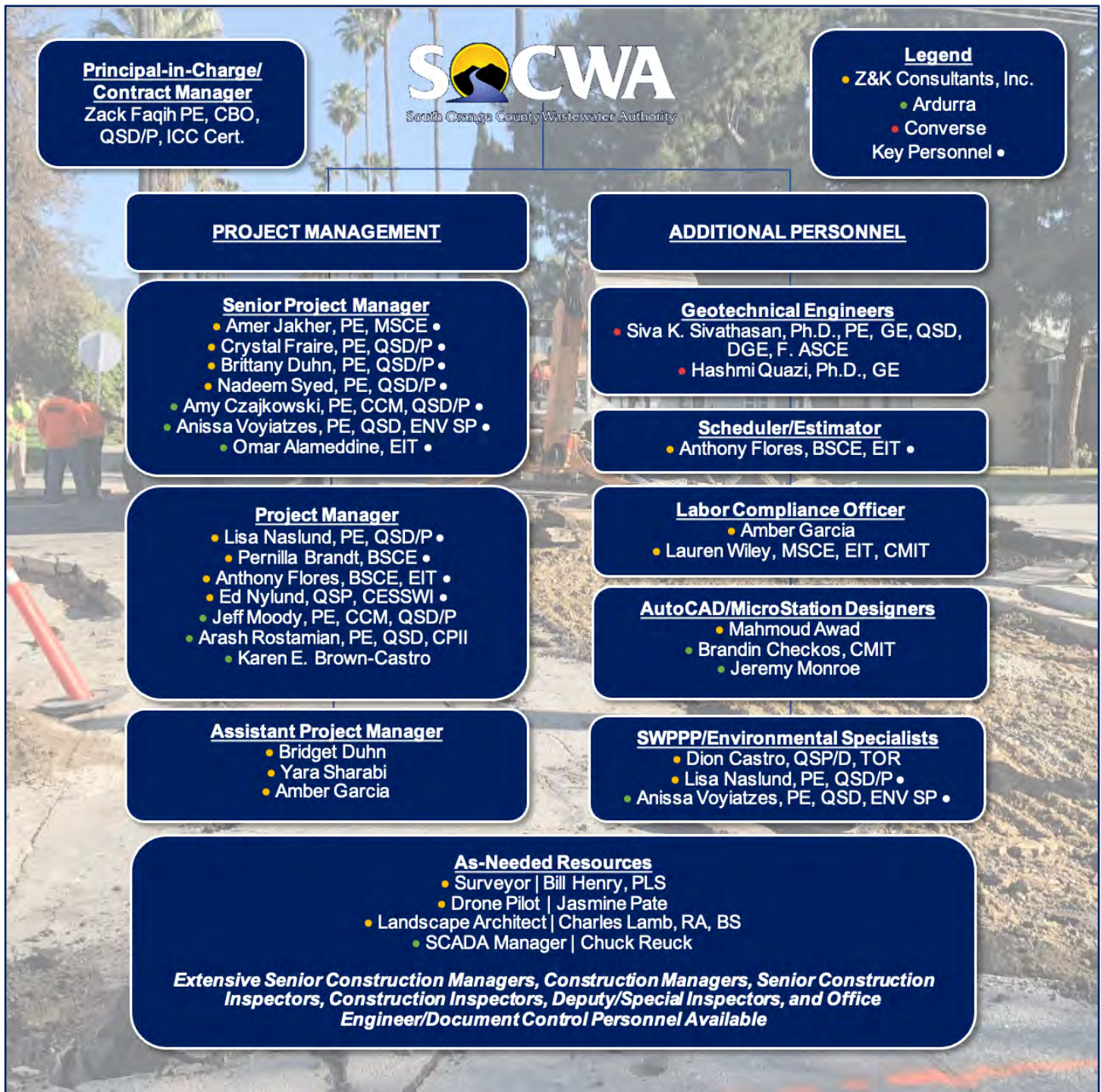
5. KEY PERSONNEL AND SUB-CONSULTANTS

5. KEY PERSONNEL AND SUB-CONSULTANTS

Our organizational structure is designed to provide clear lines of communication and accountability, ensuring that every team member understands their role and responsibilities. At the top of our project team structure are the three primary Project Managers, Ms. Fraire, Ms. Duhn, and Mr. Jakher, who will oversee the overall execution of the project. They will be supported by a team of highly skilled engineers, inspectors, and administrative staff, each of whom is selected based on their specific expertise relevant to the project's needs. **Resumes for the key personnel can be found in Attachment A.**

Z&K's ability to deliver on this project is further strengthened by our depth of expertise across various disciplines. Our personnel have been involved in numerous similar projects, giving them the experience needed to anticipate challenges and implement effective solutions swiftly. This depth of experience, combined with our extensive resources, allows us to provide a flexible and scalable service offering that can be adjusted as project needs evolve.

ORGANIZATION CHART



SUBCONSULTANTS

Z&K Consultants Inc. understands the importance of assembling a well-rounded team that can meet the diverse needs of SOCWA's projects. To complement our in-house expertise, we have strategically partnered with a select group of subconsultants who bring specialized knowledge and skills that enhance our service offerings. Each subconsultant has been carefully chosen based on their proven track record, technical expertise, and ability to deliver high-quality results within their specific domain.



ARDURRA GROUP | We are proud to Team up with Ardurra to provide additional Project Management Services. Ardurra focuses on several key service areas, including public works/civil planning, design and construction management, water/wastewater planning design and construction management, environmental, land development, emergency management, electrical engineering, structural engineering, and survey, as well as public outreach, code compliance enforcement, and grant administration. With an emphasis on practical, proven, and cost-effective solutions, Ardurra's capabilities are focused on the planning and design of roadway and utility improvements, as well as managing multi-project capital improvement programs for public agencies. Ardurra's reputation for providing quality services has been confirmed by its ongoing relationships and extended contracts with agencies throughout the region with projects such as street reconstruction/rehabilitation, landscape/median enhancements, traffic and transportation engineering, hydrologic and hydraulic (H&H) analyses and reports, sewer and storm drain improvements, water/sewer/recycled water pipelines, pump stations, and storage facilities.



CONVERSE CONSULTANTS | We are proud to Team up with Converse to provide Geotechnical Engineering Services. In 1946, Professor Frederick J. Converse established Converse Consultants in Pasadena, California to provide the construction industry with geotechnical engineering and geological services. Converse is an employee-owned corporation, with 9 offices and more than 150 employees throughout the United States. Their professional and technical staff includes in-house geotechnical engineers, engineering geologists, environmental scientists, deputy inspectors, laboratory and field technicians, drafting/CAD specialists, and other specialized support personnel.

STAFFING CHART

By aligning our resources and personnel, Z&K is fully prepared to meet SOCWA's needs with the highest level of professionalism and efficiency. We are confident that our team's experience, combined with our organized approach, will lead to the successful completion of this project.

Key Personnel Staffing Chart																			
	Project Management	Water Conveyance Projects	Treatment Plant Projects	Rehabilitation Projects	Replacement Projects	Decommissioning Projects	Aeration System Upgrades	Energy Building Improvements	Process Water Re-piping	Infrastructure Upgrades	Equipment Replacement	Pump Station Upgrades	System Enhancements	Facility Improvements	Access Road Paving	Building Repairs	Maintenance & Reconstruction	Document Management	Schedule & Budget
Legend ● Z&K Consultants, Inc. ● Ardurra ● Converse																			
SENIOR PROJECT MANAGERS (PRINCIPALLY RESPONSIBLE FOR WORKING WITH THE CITY)																			
Amer Jakher, PE, MSCE ●	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Crystal Fraire, PE, QSD/P ●	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Brittany Duhn, PE, QSD/P ●	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Nadeem Syed, PE, QSD/P ●	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Amy Czajkowski, PE, CCM, QSD/P ●	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Anissa Voyiatzes, PE, QSD, ENV SP ●	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Omar Alameddine, EIT ●	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PROJECT MANAGERS																			
Lisa Naslund, PE, QSD/P ●	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Pernilla Brandt, BSCE ●	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Anthony Flores, BSCE, EIT ●	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Ed Nylund, QSP, CESSWI ●	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
GEOTECHNICAL ENGINEERS																			
Siva K. Sivathanasan, Ph.D., PE, GE, ●	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Hashmi Quazi, Ph.D., GE ●	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

KEY PERSONNEL BIOS

The success of any project hinges on having a highly qualified and well-managed team. At Z&K Consultants, Inc., we offer SOCWA a cohesive and talented team of licensed and certified professionals who are recognized leaders in the industry. Our team will seamlessly integrate with SOCWA's staff, acting as an extension to ensure smooth project execution. Our project management professionals are guided by key objectives: delivering quality services and project outcomes, maintaining time and budget efficiency, adhering to strict quality assurance standards, ensuring constant communication, and applying both technical and practical expertise.

Z&K has carefully assembled this "A-Team," selecting our most qualified staff who are committed to the project for the entire duration of the contract. The project team is 100% dedicated to this contract, with all proposed personnel available to perform the required services as needed by SOCWA. Our staff will adjust their efforts in line with the project schedule and construction activities, reallocating hours when possible to achieve cost savings for SOCWA. By utilizing highly qualified, multi-disciplined inspectors, we are able to deliver services at a cost well below industry standards.

Amer Jakher, PE, MBA | Senior Project Manager



Mr. Jakher brings over 36 years of public service experience, with 15 years as a department head for agencies throughout Southern California and over 20 years as a Senior Project Manager and Construction Manager. He has a wealth of experience across all phases of the project life cycle, including planning, design, jurisdictional approvals, construction, and project close-out, with a particular focus on water and wastewater projects. Mr. Jakher has successfully managed over \$900 million in capital improvement projects (CIP) throughout his career, demonstrating his expertise in delivering complex water and wastewater infrastructure projects. His proficiency extends to the California Environmental

Quality Act (CEQA) process, where he has overseen numerous projects through stringent regulatory requirements.

He has held leadership roles as a department head in cities such as Chino, Beaumont, Colton, and Victorville, and served as a Senior Project Manager/Principal Engineer for cities including Banning, Baldwin Park, and Lynwood. Notably, Mr. Jakher managed a \$180 million capital improvement program in Chino, which included significant water and wastewater infrastructure developments. In addition to his technical and managerial skills, Mr. Jakher excels in navigating grant funding, extraterritorial agreements, and compliance with key regulations such as the California Building Code, Caltrans standards, Greenbook, and Board of State and Community Corrections standards. His experience spans a diverse range of water and wastewater project types, including water treatment plants, pipelines, wells, lift stations, and related infrastructure, making him exceptionally qualified to lead complex public works projects.

Crystal Fraire, PE, QSD/P | Senior Project Manager



Ms. Fraire has a distinguished track record in Program and Project Management, having successfully managed water and wastewater projects totaling over \$600 million. With over 300 capital improvement projects under her belt, Ms. Fraire's expertise is deeply rooted in the water and wastewater sector, where she has overseen the development and execution of critical infrastructure. Her extensive experience includes managing projects related to water mains, pressure regulating and pumping stations, wells, tanks, valves, reservoirs, channels, storm drains, and associated access roads and culverts. Ms. Fraire's in-depth understanding of flood risk management and water conservation facilities further underscore

her capability in handling complex water and wastewater projects. Ms. Fraire is well-versed in the latest construction practices and industry standards, ensuring that every project she leads is executed with precision and quality. She is a strong communicator and is proficient in the use of project management software and technical writing, which allows her to maintain clear and consistent communication with all stakeholders.

Brittany Duhn, PE, QSD/P | Senior Project Manager



Ms. Brittany Duhn specializes in project management for water and wastewater infrastructure projects, bringing extensive experience in overseeing every stage of these critical initiatives. She has successfully managed over \$500 million in water and wastewater projects, ensuring the delivery of high-quality outcomes during both the design and construction phases. Her expertise includes managing complex water and wastewater projects such as pipelines, treatment plants, drainage systems, and related infrastructure. Ms. Duhn's background in construction management and inspection, construction contracting, and project coordination equips her with the skills necessary to handle the intricate details

of these projects. She excels in understanding construction contracts, maintaining control over project costs and schedules, and effectively coordinating and negotiating change orders.

Nadeem Syed, PE, QSD/P | Senior Project Manager



Mr. Nadeem Syed brings over 29 years of specialized experience in project management and construction management, with a strong focus on water and wastewater infrastructure projects. Throughout his career, Mr. Syed has been instrumental in the successful delivery of numerous capital improvement projects (CIPs) related to sewer and water systems, lift stations, and other critical municipal infrastructure. His work has significantly contributed to the development and enhancement of water and wastewater systems across various municipalities, including the cities of San Bernardino, El Monte, Rialto, Fontana, Corona, Diamond Bar, San Marcos, and Baldwin Park. With over two decades of experience in engineering and implementing various water and wastewater CIP projects, Mr. Syed has developed a deep understanding of the complexities involved in these essential services. His expertise extends to the design and construction of sewer main lines, lift stations, and water systems, ensuring that these projects are completed efficiently, on time, and within budget. He is also experienced in developing master plans for citywide water and wastewater projects, ensuring long-term sustainability and compliance with regulatory standards.

Amy Czajkowski, PE, CCM, QSD/P | Senior Project Manager (Ardurra)



Amy has nearly 30 years of experience in system planning, design engineering, and construction/project management of public utilities infrastructure projects. She has expertise in contract administration and change order management and knowledge of the roles and responsibilities of complex construction. She shares this knowledge and experience by teaching a Certified Construction Manager (CCM) course in Contract Administration, which specializes in fulfilling contract compliance. Amy is recognized for her project management, thorough design review and plan checking, and ability to work with a variety of contractors and permit applicants. An additional specialty of hers is stormwater management, which includes design services, assisting with permitting compliance, and performing inspection for effectiveness of BMP systems during construction. She has conducted master plans for water and sewer services, assessed impact fees, and developed capital improvement programs to ensure adequate service. She has managed onsite capital improvement projects and served as extension of staff acting on behalf of the client. Amy's engineering design experience includes pump and lift stations, conveyance systems, reservoir storage, and treatment facilities.

Anissa Voyiatzes, PE, QSD, ENV SP | Senior Project Manager (Ardurra)



Anissa Voyiatzes has 29 years of experience in civil engineering planning, design, program and project management for transportation and public works facilities. These projects have included bikeway, roadway widening, rehabilitation, ADA compliance evaluation and improvements, complete streets and streetscape projects, utility engineering, site grading, traffic engineering, flood control facilities, drainage systems, sewer and water systems, parking lots and retaining walls. Anissa specializes in public works engineering projects that incorporate sustainable design practices.

Omar Alameddine, EIT | Senior Project Manager (Ardurra)



Omar Alameddine brings an extensive background in construction management and inspection on public works and Caltrans projects. Omar has delivered projects to renew city streets and freeways, applying his firm grasp of Caltrans and Greenbook standards. He has also managed and inspected construction of recreational facilities such as soccer fields, public parks and a dog park, public facilities, domestic water, sewer, and drainage improvements. Clients appreciate Omar's penchant for precision and thorough documentation.

Lisa Naslund, PE, QSD/P | Project Manager



Ms. Naslund has over 28 years of project management experience for various major capital improvement projects. Projects Ms. Naslund have successfully delivered are bridges, interchanges, transportation, street improvements, roadway widenings, bridges, water and wastewater projects, involving flood risk management, water conservation facilities, water mains, pressure regulating and pumping stations, wells, valves, fittings, and other appurtenances, reservoirs, channels, and storm drains, as well as access roads, and culverts. Ms. Naslund has extensive experience performing design reviews, constructability reviews, scheduling, managing consultants, interfacing with permitting agencies, reviewing billings and contracts for scope of work, preparing staff reports, preparing RFPs, preparing and administering bids, creating LID reports, performing hydrology calculations, preparing SWPPP, plan check, and designing and preparing tract and parcel maps. Ms. Naslund has extensive experience delivering projects within schedule and budget and collaboratively assisting agencies as an extension of staff.

Pernilla Brandt, BSCE | Project Manager



Ms. Brandt is a seasoned engineer with over 20 years of experience in engineering design and management specializing in municipal, commercial and residential projects. Extensive experience in all aspects of engineering project leadership including strategic planning, engineering and architectural specifications and drawings, scheduling, resource allocations, reporting, and cross-functional team collaboration. Continually exceeds expectations by building valuable relationships and works well with people at all levels of an organization including management, team members, contractors, and clients.

Ms. Brandt has extensive experience performing design reviews, constructability reviews, scheduling, managing consultants, interfacing with permitting agencies, reviewing billings and contracts for scope of work, preparing staff reports, preparing RFPs, preparing and administering bids, creating LID reports, performing hydrology calculations, preparing SWPPP, plan check, and designing and preparing tract and parcel maps.

Anthony Flores, BSCE, EIT | Project Manager



Mr. Flores has experience in project management, construction management, contracting, field investigation, project management, and quality control for numerous capital improvement projects and federally funded projects, involving street improvement, bridge construction, storm drains, traffic signals, traffic signs, streetlights, pavement markings, construction projects, and maintenance projects. Mr. Flores has a thorough understanding of Cal-OSHA practices and procedures, ADA and Caltrans ADA requirements, as well as extensive knowledge of Caltrans construction practices, physical characteristics and properties of highway construction materials, and approved methods and equipment used in making

physical tests of construction materials. Additionally, Mr. Flores is familiar with Caltrans field and construction office procedures, with experience assisting in inspection to assure compliance with plans and specifications, assisting in preparation of contract change orders, contract estimates, and progress payments, coordinating field testing of materials for compliance with project specifications and the Caltrans Quality Assurance Program, maintaining accurate project records, performing analytical calculations, and monitoring Contractor progress by preparing progress reports as required.

Ed Nylund, QSP, CESSWI | Project Manager



Mr. Nylund has over 34 years of experience providing quality control and quality assurance with extensive experience on of numerous major capital improvement projects including transmission mains, new wells, tanks, reservoirs, water and wastewater treatment plants, pipelines, lift stations, booster pump stations, bridges, street improvements, retaining walls, dewatering, parks and facilities, landscaping and irrigation improvements, utility installation, roadway widenings, grade separations, masonry walls, storm drain projects, roadway projects, street rehabilitations, and large-scale water and wastewater projects. He has extensive experience in public agency construction inspection and encroachment permits inspection.

Siva K. Sivathasan, Ph.D., PE, GE, QSD, DGE, F. ASCE | Geotechnical Engineer



Dr. Sivathasan is a registered civil and geotechnical engineer in California, with 26 years of geotechnical and construction experience. He is skilled at analyzing complex geotechnical problems and has prepared comprehensive reports with detailed recommendations. He also has extensive knowledge of construction projects from managing geotechnical observation and testing, special inspection and material testing, and Caltrans source inspection services. He has been providing source inspection for major transportation projects in Southern California. He is a subject matter expert for the California Board of Professional Engineers, Land Surveyors, and Geologists for geotechnical engineering exam development.

Hashmi Quazi, Ph.D., GE | Geotechnical Engineer



Dr. Quazi has over 37 years of experience in geotechnical engineering, where he has built a strong reputation for delivering high-quality work with integrity and efficiency. His approach is both honest and ethical, consistently meeting project deadlines and staying within budget. Throughout his career, Dr. Quazi has played a pivotal role in numerous projects, providing essential services such as quality control, budget oversight, and technical guidance. His expertise extends across a diverse range of projects, including essential buildings, police stations, fire stations, libraries, and other critical infrastructure.

Z&K Consultants commits that all assigned personnel will remain on the project for its duration, and no changes will be made without SOCWA's prior written approval. Our key personnel will be available as proposed throughout the contract and until the completion of the scope of services. The team we have proposed is fully committed, exceptionally qualified, and capable of handling all aspects of the project. Each member is multi-disciplined, able to multi-task, and has a comprehensive understanding of the project's requirements.



ATTACHMENT A RESUMES

Senior Project Manager



Mr. Jakher brings over 36 years of public service experience, with 15 years as a department head for agencies throughout Southern California and over 20 years as a Senior Project Manager and Construction Manager. He has a wealth of experience across all phases of the project life cycle, including planning, design, jurisdictional approvals, construction, and project close-out, with a particular focus on water and wastewater projects. Mr. Jakher has successfully managed over \$900 million in capital improvement projects (CIP) throughout his career, demonstrating his expertise in delivering complex water and wastewater infrastructure projects. His proficiency extends to the California Environmental Quality Act (CEQA) process, where he has overseen numerous projects through stringent regulatory requirements.

EDUCATION

- » Bachelor of Science, Civil Engineering, San Diego State University, 1988
- » Master's in Public Administration, Cal State San Bernardino, 2007

LICENSES & REGISTRATION

- » Professional Civil Engineer, 50932, CA
- » Cal-OSHA 30 Hour
- » Contractor License No. 829929, CA
- » Fluent in Spanish

He has held leadership roles as a department head in cities such as Chino, Beaumont, Colton, and Victorville, and served as a Senior Project Manager/Principal Engineer for cities including Banning, Baldwin Park, and Lynwood. Notably, Mr. Jakher managed a \$180 million capital improvement program in Chino, which included significant water and wastewater infrastructure developments. In addition to his technical and managerial skills, Mr. Jakher excels in navigating grant funding, extraterritorial agreements, and compliance with key regulations such as the California Building Code, Caltrans standards, Greenbook, and Board of State and Community Corrections standards. His experience spans a diverse range of water and wastewater project types, including water treatment plants, pipelines, wells, lift stations, and related infrastructure, making him exceptionally qualified to lead complex public works projects.

RELEVANT PROJECT EXPERIENCE

CITY OF CHINO

WELL 11 RAW WATER TRANSMISSION MAIN PROJECT | The work involved furnishing all labor, materials, and equipment to install approximately 1.5 miles of new 16-inch water main using PVC and CML&C steel, including associated fittings, valves, blow-off assemblies, and combination air valves. Construction was carried out in existing city streets. Additionally, the project required modifications to the existing control panel, programming, SCADA host system, and the provision of a new HMI and programming.
Construction Cost: \$2.6M

WELLS 4 & 6 WATER TREATMENT FACILITY | This involved groundwater Wells 4 and 6, which had been inactive due to updated regulations requiring higher drinking water standards set by the SWRWQCB. The City aimed to reduce reliance on imported water and expand access to local groundwater supplies, as outlined in the City of Chino Water Master Plan Update from January 2020. Wells 4 and 6 were identified as priority projects in this plan. To achieve these goals, the City embarked on a new centralized groundwater treatment plant to bring the wells back into service, reducing the purchased water supply by up to a quarter. The treatment plant, designed to handle 1,700 gallons per minute (gpm), would contribute to approximately 34% of the average day demand within the pressure zone, which supplies 52% of the overall service area. The project included constructing a new 2 million gallon per day (MGD) groundwater treatment facility and connecting the two wells, which were inactive due to water quality contamination from historical agricultural and manufacturing activities in the Chino Basin. **Construction Cost: \$10M**

WELL 17 EQUIPPING PROJECT | The Project includes equipping and operating existing Well 17. The improvements were confined to the well location, except for pipe and electrical conduit trenches that crossed the Eastside Water Treatment Facility (EWTF) site to connect to existing facilities. The project included grading and compaction for the well building, building access, and pump-to-waste swale. The well building was designed to enclose the wellhead pump and piping and is constructed of masonry block shear walls supported by a continuous footing foundation. The pump-to-waste swale extended the existing defined earthen channel connected to the EWTF percolation pond. **Construction Cost: \$4M**

YORBA AVENUE AND EUCALYPTUS AVENUE SEWER MAIN REPLACEMENT PROJECT | The work included replacing existing 10-inch and 15-inch vitrified clay pipe (VCP) sewer mains with larger diameter VCP or high-density polyethylene (HDPE) pipe using a combination of trenchless and open trench methods. It involved installing steel casing across railroad property, setting up temporary bypasses, and replacing or rehabilitating existing sewer manholes. The project also required removing existing sewer manholes, reconnecting sewer laterals, and performing pipe backfill and bedding with asphalt concrete overlay for trench repairs. Additional tasks included adjusting existing utility lines, making full-depth asphalt concrete pavement repairs, applying slurry seal, crack sealant, and weed abatement, restoring traffic detector loops, performing striping and traffic control, conducting night work, and carrying out post-construction closed-circuit television (CCTV) inspections. **Construction Cost: \$3.5M**

CENTRAL AVENUE AND DUPONT AVENUE WATERLINE REPLACEMENT PROJECT | The Central Avenue project involved replacing a 16-inch steel water main with an 18-inch PVC pipe along Central Avenue from Chino Avenue to C Street, and replacing an 8-inch steel line on D Street from Central Avenue to the alley west of 6th Street. The project included connections to Chino Avenue, D Street, Alley 16, and two other alleys, with line stops for tie-ins due to insufficient valving. The Dupont Avenue project included replacing an 8-inch DIP waterline with a 12-inch C-900 PVC pipe along Dupont Avenue from Alton Street to Gates Street, and also involved replacing multiple water service connections and fire service laterals. **Construction Cost: \$5.8M**

RUSSELL AVENUE WATER LINE REPLACEMENT PROJECT | The project involved removing and replacing the water main along Russell Ave from Walnut Ave to Terry Ave. It included installing 700 linear feet of new 8-inch PVC C900 DR 14 water main, performing trench backfill and roadway repairs, and installing fire hydrant assemblies, gate valves, and tees with thrust blocks. The work also encompassed installing new 1-inch domestic water service laterals and connecting them to existing water meters, making lateral connections within 3 feet of the water main centerline, saw cutting, and replacing existing cross gutters. Additionally, the project required cutting, plugging, and abandoning the existing water main and removing old fire hydrants. **Construction Cost: 2.3M**

BENSON AVE STORM DRAIN PROJECT | The project, located on Riverside Dr. from Benson Ave to Ross Ave, involved the installation of over 1,800 linear feet of reinforced concrete pipe (RCP) ranging from 24" to 54". It also included the construction of 14 reinforced storm drain structures and seven crossing/support structures for existing utilities. Additionally, 75 linear feet of existing traffic signal conduit and cable were relocated. After completing trench repairs, 80,000 square feet of Type II asphalt road slurry was placed, and traffic signal loops were replaced. **Construction Cost: \$2M**

KIMBALL AVENUE STORM DRAIN IMPROVEMENTS AT CHINO AIRPORT | This project involved the removal and disposal of existing landscaping, PCC and AC pavement, and the construction of AC pavement over a compacted base, PCC sidewalks, and curbs and gutters. A box culvert storm drain structure with wingwalls, a catch basin, stormwater infiltration system, and steel-encased water lines were installed, along with various other water lines and facilities. The project also included coordinating utility installations, relocating traffic signal boxes, paving AC dikes, water services, clearing and grubbing, and installing rip rap and grouted rip rap. Additionally, reinforced concrete box culvert wingwalls, precast box culverts, 30" and 24" steel pipes, ductile iron pipes, and water mains were installed and tested. Curb, gutter, ADA ramps, and fencing were also completed. **Construction Cost: \$3M**

PHILADELPHIA STREET AND MONTE VISTA AVENUE STORM DRAIN IMPROVEMENT PROJECT | The Project involved relocating water service lines and sewer laterals, constructing asphalt concrete and aggregate base for trench backfill and roadway repair, and removing and disposing of existing curbs, gutters, and sidewalks. Storm drain pipes ranging from 18" to 66" were installed, along with manholes, transition structures, catch basins, and connector pipe screens. The project included constructing local depressions, new PCC cross gutters, replacing loop detectors, and completing pavement markings, striping, and curb markers. **Construction Cost: \$2M**

MOUNTAIN AVENUE AT CHINO AVENUE STORM DRAIN REHABILITATION PROJECT | The project included concrete work, installation of inductive loop detectors, pavement markings, and a full-depth pavement overlay at the Mountain Avenue intersection. Construction tasks such as curb ramp and sidewalk removal, installation of storm drains, manholes, and catch basins, and the protection and adjustment of existing utilities were included. This project included the mobilization and demobilization process, as well as various tasks essential for project completion according to the General Provisions. The bid included construction surveying, water pollution control, and traffic control plans that required approval by the City. Additional items involved trench safety measures, street repairs, and utility verification. **Construction Cost: \$1.2M**

CITY OF CORONA PROJECTS

LIBERTY AVENUE WATERLINE REPLACEMENT PROJECT | This project involves replacing a 10-inch steel water main with a 12-inch ductile iron pipe over 3,527 linear feet along La Gloria St. and Liberty Ave. The scope includes installing a 12-inch ductile iron pipe with restrained joints, various water control components (such as air/vacuum release valves, fire hydrant blow-off assemblies, and resilient wedge gate valves), and a new water service connection. It also includes removing and replacing existing infrastructure (like vaults and bollards), trench repairs, roadway repairs, asphalt dike replacement, and concrete encasement. The project will also involve abandoning the old water main, implementing traffic control and BMPs, and managing water consumption, disinfection, and flushing. Additional tasks include mobilization, demobilization, and setting up an informational project sign. **Construction Cost: \$1.6M**

WATER RECLAMATION FACILITY 2 (WRF #2) ELECTRICAL UPGRADES | The current MCCs for WRF No. 2 Aeration, along with the Sunkist Lift Station, reached their useful life and required necessary electrical upgrades to ensure reliable performance and proper functioning of water treatment and Sunkist lift station facilities. The project involved the removal of existing Motor Control Centers (MCCs) and the installation of new, City-furnished MCC units into prefabricated powerhouses. Site work included civil, yard piping, and mechanical tasks. A detailed survey of locations for the new MCC housing structures was conducted, and a base map of the project area was prepared. Site demolition and the installation of reinforced concrete pads and foundations for the new MCC structures were completed. **Construction Cost: \$2.7M**

Crystal Fraire, PE, QSD/QSP

Senior Project Manager



EDUCATION

- » BSCE - Civil Engineering,
California State Polytechnic
University, Pomona

LICENSES & REGISTRATION

- » Professional Engineer, P.E.
State of California, #91674
- » SWPPP (QSD) & (QSP)
Certificate #27614
- » 30-Hr. Cal OSHA
- » Defensive Driving Training

Ms. Fraire has a distinguished track record in Program and Project Management, having successfully managed water and wastewater projects totaling over \$600 million. With over 300 capital improvement projects under her belt, Ms. Fraire's expertise is deeply rooted in the water and wastewater sector, where she has overseen the development and execution of critical infrastructure. Her extensive experience includes managing projects related to water mains, pressure regulating and pumping stations, wells, tanks, valves, reservoirs, channels, storm drains, and associated access roads and culverts. Ms. Fraire's in-depth understanding of flood risk management and water conservation facilities further underscore her capability in handling complex water and wastewater projects. Ms. Fraire is well-versed in the latest construction practices and industry standards, ensuring that every project she leads is executed with precision and quality. She is a strong communicator and is proficient in the use of project management software and technical writing, which allows her to maintain clear and consistent communication with all stakeholders.

Her background in construction management and inspection, construction contracting, and quality control/assurance has equipped her with the skills needed to effectively oversee every aspect of a project. Ms. Fraire excels in understanding and managing construction contracts, controlling project costs and schedules, coordinating and negotiating change orders, and providing regular updates to clients. She is diligent in tracking and reviewing critical path method (CPM) schedules, ensuring that any changes or delays are promptly addressed. Additionally, Ms. Fraire is adept at maintaining accurate project as-builts, managing multiple subconsultants, and supervising inspection staff, all of which contribute to the successful completion of water and wastewater projects under her leadership.

RELEVANT PROJECT EXPERIENCE

HAYNES GENERATING STATION SEWER FORCE MAIN PROJECT | The project involved constructing a new 12-inch diameter sewer force main extending from the Los Angeles Department of Water Power's (LADWP) Haynes Generating Station (HGS) to an existing 42-inch sewer main at the Los Angeles County Services District (LACSD) Long Beach Water Reclamation Facility. The project facilitated the reuse of up to 2.841 million gallons per day (MGD) of industrial wastewater discharge and stormwater runoff from the HGS to the Long Beach Water Reclamation Facility. A total of 17,000 feet of pipeline was installed using trenching and trenchless methods. Additionally, a flow control/pressure reducing station, not exceeding 300 square feet, was constructed near the Long Beach facility. **Construction Cost: \$20M**

LADWP GWTP-1 AND GWTP-2 NEW WELLS | The project involves drilling, developing and constructing two municipal water wells: GWTP-1 and GWTP-2 on the City of Long Beach's Groundwater Treatment Plant property. The project will also include the destruction of an existing monitoring water well known as Citizen 6 Well. **Construction Cost: \$12M**

LADWP HAYNES GENERATING STATION RECYCLED WATER PIPELINE PROJECT | The project involves installing a 24-inch diameter pipeline over approximately 7,940 linear feet from the Haynes Generating Station to connect with the LBWD 21-inch recycled water pipeline at Atherton Street and Studebaker Road. Key components include installing 5,600 LF of 24-inch DR17 HDPE pipeline, 1,800 LF of 16-inch DR17 HDPE pipeline, and 360 LF of 16-inch welded steel pipe, along with a 250 LF trenchless crossing under Caltrans SR-22. The scope also covers a 12-inch service connection at Haynes Generating Station, a 370-LF 12-inch HDPE sewer force main, and service connections for City of Long Beach Public Works. **Construction Cost: \$24M**

GOLDEN AVENUE WATER MAIN REPLACEMENT PROJECT | The work consisted of replacing an existing 6-inch ductile iron water main with new non-metallic piping along Golden Avenue between Spring St. and 32nd St. Additionally, 48 copper water services were replaced with new non-metallic piping. The project also included replacing existing water valves to improve system functionality and reliability and installing three new fire hydrants to enhance fire protection capabilities in the area. All work was carried out to ensure compliance with local standards and improve the overall water infrastructure on Golden Avenue. **Construction Cost: \$5M**

WELL COMMISSION 22A PROJECT | The project involves the replacement of the well, Commission 22 in El Dorado East Regional Park with well, Commission 22A in the vicinity of the mentioned existing well. The project involves installation of one estimated 2,500 gallon per minute potable well (Commission 22A), approximately thirty nine linear feet of 12-inch diameter below ground piping to connect Commission 22A to an existing pipeline (24" collection main) that runs along the San Gabriel River, and other appurtenances. The existing Groundwater Treatment Plant will be used to chlorinate the water from Commission 22A. **Construction Cost: \$3M**

WELLS COMMISSION 23A AND EL DORADO | The project included drilling and equipping four new wells and the destruction of two existing wells. The project involved site assessments, construction of pressurized conveyance pipelines, well enclosures, site improvements, electrical work, and supervisory controls (SCADA) work. Additionally, the project included the new conveyance lines connecting the new wells to Long Beach Water Department's main collection lines. The proposed well sites were located at Camp Fire 1 (CF 1), Commission 23A (COM 23A), El Dorado 1 (DOR 1), and Citizens 8A (CIT 8A). **Construction Cost: \$25M**

WELLS ALAMITOS 9A AND ALAMITOS 14 | The project involves the abandonment of four existing groundwater wells Annex 201 (2956 Ladoga Avenue), Commission 13 & Annex 203 (3412 N Studebaker Rd), and Alamitos 9 (Stearns Champion Park) in the system and the installation of two new replacement groundwater wells Alamitos 9A and Alamitos 14 with estimated yield of 2,500 gallons per minute per well at Stearns Champion Park. Project also includes piping to connect Well Alamitos 9A and Alamitos 14 to an existing collection main pipeline on East 23rds Street, and other appurtenances. The existing Groundwater Treatment Plant will be used to chlorinate the water from both wells. **Construction Cost: \$12M**

ALAMITOS TANKS 19 & 20 CONVERSION PROJECT | The project involved rehabilitating and converting Alamitos Tanks 19 and 20 from potable water to recycled water tanks. This included interior and exterior coating rehabilitation, lead containment and abatement, halo support retrofit, rafter replacement and reinforcement, seismic rod replacement, and side vent installation in the tank shell. The project also included replacing the cathodic protection system, welding connections, hardware, and installing steel handrails. Various piping modifications were made, including inlet/outlet, overflow, and drain piping, as well as sump and yard piping modifications. Additionally, valves and appurtenances were replaced or installed, including a liquid level indicator, safety tie-offs, a magnetic flowmeter, and roof vent screens. Electrical upgrades, site restoration, floor plate cathodic protection anodes, and a packed booster pumping station with its related appurtenances were also installed. **Construction Cost: \$6M**

SPINNAKER BAY DRIVE WATER MAIN REPLACEMENT | The project involved the installation of new 6-inch, 8-inch, and 12-inch polyvinyl chloride pipe, along with wax tape on ductile iron flanges, tape wrap, and polyethylene-wrapped ductile iron fittings, couplings, thrust blocks, and valve anchors. The work included the installation of 6-inch, 8-inch, and 12-inch gate valves, 1-inch and 2-inch water services, fire services, air relief valve assemblies, fire hydrant assemblies, and 2-inch blow-off assemblies. Connections to existing water mains were made, existing sewer laterals were relocated, and existing water mains, services, valves, and fire hydrant laterals were abandoned. Additionally, existing fire hydrant heads and buries were removed and disposed of. **Construction Cost: \$4M**

EQUIPPING OF WATER WELLS NORTH LONG BEACH 13 AND NORTH LONG BEACH 14 | The project involved equipping Water Wells North Long Beach 13 and North Long Beach 14. It included installing well pumps, constructing pipelines, performing utility and underground work, and setting up water system plants and electrical systems. The scope also covered maintenance and repair services for well equipment and pumps. Key items included general construction, water system construction, well services, equipment maintenance, and electrical work related to pump installations and system upgrades. **Construction Cost: \$5M**

S-25 SEWER LIFT STATION REHABILITATION | The project involved replacing the mechanical and electrical systems inside the lift station, including pumps, ventilation, piping, electrical conduits, instrumentation, and the diesel-powered standby generator. It also included installing a new maintenance hole (MH) and 12-inch VCP, paving an AC access path, and relocating the bypass pumping connection to outside the lift station. The new MH was interconnected with an existing manhole and accessed via a new AC paved driveway, with a short concrete masonry wall constructed to retain the MH. A bypass pumping system was required for construction. **Construction Cost: \$4M**

LARGE POTABLE WATER VALVE REPLACEMENT WILLOW STREET PROJECT | The project involved replacing existing 20-inch gate valves with new 20-inch butterfly valves in the Long Beach Water System. The work required protecting and supporting existing utilities, excavating to expose large valves and piping, and constructing linestop assemblies and restraint systems. The gate valves were replaced at three locations: Willow Street and Delta Avenue, Willow Street and Santa Fe Avenue, and Spring Street and Delta Avenue. Additional tasks included leakage testing, disinfection of improvements, backfilling excavations, and restoring pavement. **Construction Cost: \$1M**

GROUNDWATER TREATMENT PLANT HVAC REPLACEMENT PROJECT | The project involved removing existing roofs and replacing chillers, boilers, and HVAC equipment. It included installing new Tremco roofing, new chiller units, and new air handlers. Additionally, the project encompassed upgrading the electrical, mechanical, and plumbing systems. The work also required the replacement of duct systems and any associated components to ensure comprehensive system improvements and compliance with current standards. **Construction Cost: \$8M**

Brittany Duhn, PE, QSD/P

Senior Project Manager



EDUCATION

- » BSCE - Civil Engineering,
California State Polytechnic
University, Pomona

LICENSES & REGISTRATION

- » Professional Engineer, P.E.
State of California, #91078
- » SWPPP (QSD) & (QSP)
Certificate #27609
- » 30-Hr. Cal OSHA

Ms. Brittany Duhn specializes in project management for water and wastewater infrastructure projects, bringing extensive experience in overseeing every stage of these critical initiatives. She has successfully managed over \$500 million in water and wastewater projects, ensuring the delivery of high-quality outcomes during both the design and construction phases. Her expertise includes managing complex water and wastewater projects such as pipelines, treatment plants, drainage systems, and related infrastructure. Ms. Duhn's background in construction management and inspection, construction contracting, and project coordination equips her with the skills necessary to handle the intricate details of these projects. She excels in understanding construction contracts, maintaining control over project costs and schedules, and effectively coordinating and negotiating change orders.

Ms. Duhn is adept at providing clear and timely project updates to clients, ensuring the critical path method (CPM) schedules are reviewed and any changes or delays are addressed promptly. Her meticulous approach to maintaining project as-builts, managing subconsultants, and supervising inspection staff ensures that all aspects of water and wastewater projects are executed with precision and efficiency.

With a focus on water and wastewater infrastructure, Ms. Duhn's comprehensive experience makes her a highly qualified leader, capable of delivering successful projects that meet the highest industry standards.

RELEVANT PROJECT EXPERIENCE

CITY OF BEAUMONT, WWTP SALT MITIGATION UPGRADE PROJECT & BRINE DISPOSAL PIPELINE PROJECT |

The City operates the Treatment Plant, which treats domestic and commercial wastewater from Beaumont and the Highland Springs area. Originally designed to handle up to 4 million gallons per day, the facility now has a capacity of 6 MGD. The project involved extensive upgrades including partial site demolition, construction of new facilities, and modification of existing systems. Key improvements included the installation of new headworks screens, grit chambers, fine screening structures, aeration basins, and a membrane bioreactor (MBR) building. Work included odor control systems, and new pump stations, as well as updating electrical systems and civil infrastructure. The City's salt mitigation measure included reverse osmosis (RO) as well as a 23-mile long Brine Line commencing at the Facility and terminating at the City of San Bernardino's connection point to the Inland Empire Brine Line for exporting excess salt. **Construction Cost: \$80M**

CITY OF BURBANK, VALLEY PUMPING PLANT (VPP) BOOSTER STATION REHABILITATION PROJECT |

The project involved the demolition and replacement of various components in an existing pump station. This includes pumps, pump pads, connecting pipes, valves, and instruments, as well as electrical motor control cabinets, Variable Frequency Drives (VFDs), transformers, and associated wiring. Additionally, the project required updating the programmable logic controller (PLC) and remote I/O units, including new programming and conduit installation for communication, which involves trenching. **Construction Cost: \$3.2M**

CITY OF HEMET, SEWER MAIN REPLACEMENT PROJECT |

The project involved bypass pumping, removal or abandonment of existing sewer facilities, and the installation of new 8-inch PVC sewer mains and sewer manholes. It also included connecting existing laterals to the new mains and conducting trench repairs. The work was performed along Kirby Street (from Devonshire Ave. to Florida Ave.), Gibbel Park (from G.P. Restrooms to Kirby St.), Florida Ave (from Kirby St. to Gilmore St.), and Thompson Street (from Acacia to Central Ave., with the sewer main located on the opposite side of the street), following the approved plans and specifications. **Construction Cost: \$1.3M**

CITY OF FULLERTON

LONGVIEW DRIVE WATER/SEWER MAIN REPLACEMENT & STREET IMPROVEMENTS |

The water, sewer, and street rehabilitation project for the City of Fullerton involved several key tasks. It included the replacement of 2,500 linear feet of 8-inch ductile iron water main and 2,500 linear feet of 8-inch vitrified clay pipe (VCP) sewer main, along with the installation of new manholes and the removal and replacement of existing sewer pipes. The project also involved video inspection and abandonment of old water mains and valves. Additionally, the project featured street and drainage improvements, including asphalt paving, cold planning, concrete paving, aggregate base, curb and gutter, access ramps, cross gutters, driveway approaches, and sidewalk replacement. **Construction Cost: \$3.2M**

VALENCIA AVENUE WATER MAIN REPLACEMENT |

This water rehabilitation project for the City of Fullerton involved replacing 2,500 linear feet of 8-inch C-900 water main pipeline and appurtenances, as well as abandoning and removing existing pipelines and valves. The project included trench excavation, shoring, backfill, and pipe welding. It also featured street and drainage improvements, such as cold planning, asphalt and concrete paving upgrades, aggregate base installation, access ramps, cross gutters, sidewalk replacement, and traffic control. **Construction Cost: \$1.5M**

CITY OF CHINO

WELL 11 RAW WATER TRANSMISSION MAIN PROJECT | The work involved furnishing all labor, materials, and equipment to install approximately 1.5 miles of new 16-inch water main using PVC and CML&C steel, including associated fittings, valves, blow-off assemblies, and combination air valves. Construction was carried out in existing city streets. Additionally, the project required modifications to the existing control panel, programming, SCADA host system, and the provision of a new HMI and programming. **Construction Cost: \$2.6M**

WELLS 4 & 6 WATER TREATMENT FACILITY | This involved groundwater Wells 4 and 6, which had been inactive due to updated regulations requiring higher drinking water standards set by the SWRWQCB. The City aimed to reduce reliance on imported water and expand access to local groundwater supplies, as outlined in the City of Chino Water Master Plan Update from January 2020. Wells 4 and 6 were identified as priority projects in this plan. The treatment plant, designed to handle 1,700 gallons per minute (gpm), would contribute to approximately 34% of the average day demand within the pressure zone, which supplies 52% of the overall service area. The project included constructing a new 2 million gallon per day (MGD) groundwater treatment facility and connecting the two wells, which were inactive due to water quality contamination from historical agricultural and manufacturing activities in the Chino Basin. **Construction Cost: \$10M**

WELL 17 EQUIPPING PROJECT | The Project includes equipping and operating existing Well 17. The improvements were confined to the well location, except for pipe and electrical conduit trenches that crossed the Eastside Water Treatment Facility (EWTF) site to connect to existing facilities. The project included grading and compaction for the well building, building access, and pump-to-waste swale. The well building was designed to enclose the wellhead pump and piping and is constructed of masonry block shear walls supported by a continuous footing foundation. The pump-to-waste swale extended the existing defined earthen channel connected to the EWTF percolation pond. **Construction Cost: \$4M**

YORBA AVENUE AND EUCALYPTUS AVENUE SEWER MAIN REPLACEMENT PROJECT | The work included replacing existing 10-inch and 15-inch vitrified clay pipe (VCP) sewer mains with larger diameter VCP or high-density polyethylene (HDPE) pipe using a combination of trenchless and open trench methods. It involved installing steel casing across railroad property, setting up temporary bypasses, and replacing or rehabilitating existing sewer manholes. The project also required removing existing sewer manholes, reconnecting sewer laterals, and performing pipe backfill and bedding with asphalt concrete overlay for trench repairs. Additional tasks included adjusting existing utility lines, making full-depth asphalt concrete pavement repairs, applying slurry seal, crack sealant, and weed abatement, restoring traffic detector loops, performing striping and traffic control, conducting night work, and carrying out post-construction closed-circuit television (CCTV) inspections. **Construction Cost: \$3.5M**

RUSSELL AVENUE WATER LINE REPLACEMENT PROJECT | The project involved removing and replacing the water main along Russell Ave from Walnut Ave to Terry Ave. It included installing 700 linear feet of new 8-inch PVC C900 DR 14 water main, performing trench backfill and roadway repairs, and installing fire hydrant assemblies, gate valves, and tees with thrust blocks. The work also encompassed installing new 1-inch domestic water service laterals and connecting them to existing water meters, making lateral connections within 3 feet of the water main centerline, saw cutting, and replacing existing cross gutters. Additionally, the project required cutting, plugging, and abandoning the existing water main and removing old fire hydrants. **Construction Cost: 2.3M**

BENSON AVE STORM DRAIN PROJECT | The project, located on Riverside Dr. from Benson Ave to Ross Ave, involved the installation of over 1,800 linear feet of reinforced concrete pipe (RCP) ranging from 24" to 54". It also included the construction of 14 reinforced storm drain structures and seven crossing/support structures for existing utilities. Additionally, 75 linear feet of existing traffic signal conduit and cable were relocated. After completing trench repairs, 80,000 square feet of Type II asphalt road slurry was placed, and traffic signal loops were replaced. **Construction Cost: \$2M**

KIMBALL AVENUE STORM DRAIN IMPROVEMENTS AT CHINO AIRPORT | This project involved the removal and disposal of existing landscaping, PCC and AC pavement, and the construction of AC pavement over a compacted base, PCC sidewalks, and curbs and gutters. A box culvert storm drain structure with wingwalls, a catch basin, stormwater infiltration system, and steel-encased water lines were installed, along with various other water lines and facilities. The project also included coordinating utility installations, relocating traffic signal boxes, paving AC dikes, water services, clearing and grubbing, and installing rip rap and grouted rip rap. Additionally, reinforced concrete box culvert wingwalls, precast box culverts, 30" and 24" steel pipes, ductile iron pipes, and water mains were installed and tested. Curb, gutter, ADA ramps, and fencing were also completed. **Construction Cost: \$3M**

PHILADELPHIA STREET AND MONTE VISTA AVENUE STORM DRAIN IMPROVEMENT PROJECT | The Project involved relocating water service lines and sewer laterals, constructing asphalt concrete and aggregate base for trench backfill and roadway repair, and removing and disposing of existing curbs, gutters, and sidewalks. Storm drain pipes ranging from 18" to 66" were installed, along with manholes, transition structures, catch basins, and connector pipe screens. The project included constructing local depressions, new PCC cross gutters, replacing loop detectors, and completing pavement markings, striping, and curb markers. **Construction Cost: \$2M**

CENTRAL AVENUE AND DUPONT AVENUE WATERLINE REPLACEMENT PROJECT | The Central Avenue project involved replacing a 16-inch steel water main with an 18-inch PVC pipe along Central Avenue from Chino Avenue to C Street, and replacing an 8-inch steel line on D Street from Central Avenue to the alley west of 6th Street. The project included connections to Chino Avenue, D Street, Alley 16, and two other alleys, with line stops for tie-ins due to insufficient valving. The Dupont Avenue project included replacing an 8-inch DIP waterline with a 12-inch C-900 PVC pipe along Dupont Avenue from Alton Street to Gates Street, and also involved replacing multiple water service connections and fire service laterals. **Construction Cost: \$5.8M**

Senior Project Manager



EDUCATION

- » BS, Civil Engineering, California State University Long Beach, 1990
- » BA, Business, Punjab University, Pakistan

LICENSES & REGISTRATION

- » Registered Professional Civil Engineer, CA – No. 64381
- » OSHA 30 Hour
- » Defensive Driver Training
- » QSP/D Certified

Mr. Nadeem Syed brings over 29 years of specialized experience in project management and construction management, with a strong focus on water and wastewater infrastructure projects. Throughout his career, Mr. Syed has been instrumental in the successful delivery of numerous capital improvement projects (CIPs) related to sewer and water systems, lift stations, and other critical municipal infrastructure. His work has significantly contributed to the development and enhancement of water and wastewater systems across various municipalities, including the cities of San Bernardino, El Monte, Rialto, Fontana, Corona, Diamond Bar, San Marcos, and Baldwin Park. With over two decades of experience in engineering and implementing various water and wastewater CIP projects, Mr. Syed has developed a deep understanding of the complexities involved in these essential services. His expertise extends to the design and construction of sewer main lines, lift stations, and water systems, ensuring that these projects are completed efficiently, on time, and within budget. He is also experienced in developing master plans for citywide water and wastewater projects, ensuring long-term sustainability and compliance with regulatory standards.

RELEVANT PROJECT EXPERIENCE

CITY OF LONG BEACH, CATHODIC PROTECTION PHASES 5 & 6 | The project involved installing cathodic protection (CP) systems for existing 20-inch and 30-inch potable water pipelines. This included excavation, pipe exposure, exothermic welding of pipe connection leads, and the installation of anodes and CP test stations. The work will take place on Osgood Street from De Forest Avenue to Linden Avenue, Linden Avenue from Osgood Street to E 60th Street, E 60th Street from Linden Avenue to Orange Avenue, and Orange Avenue from E 60th Street to Market Street. **Construction Cost: \$3M**

CITY OF PICO RIVERA, WATER MAIN REPLACEMENT PROJECT | The Water Main Replacement Project addressed outdated pipelines at various locations, including Eglise Ave., Cord Ave., Hasty Ave., Sideview Dr., Songfest Dr., Bennington Ave., Farmland Ave., Woodford St., Sandoval Ave., and Washington Blvd. These pipelines, which had been in service for 70 years, were causing inefficiencies and water loss, indicating they were at the end of their service life. The project involved replacing approximately 4,240 linear feet of 8-inch, 3,000 linear feet of 10-inch, and 2,750 linear feet of 18-inch water lines, as well as associated valves, domestic services, and fire hydrant assemblies. **Construction Cost: \$6.5M**

CITY OF OCEANSIDE

PURE WATER OCEANSIDE – ADVANCED WATER PURIFICATION FACILITY (AWPF) | The project involves constructing a new Advanced Water Purification Facility (AWPF) with an initial capacity to produce 4.5 million gallons per day (MGD) of advanced treated recycled water, expandable to a minimum of 6.0 MGD in the future. Key components include nitrification-denitrification facilities, and an AWPF process building featuring a feed tank, pump station, ultra-filtration, reverse osmosis, ultraviolet light advanced oxidation, and product water pump station. Elements include a waste equalization wet-well and pump station, a pipeline to the plant headworks, a new reverse osmosis concentrate pipeline to the secondary effluent pump station at the SLRWRF, and chemical storage and feed facilities. **Construction Cost: \$55M**

SAN LUIS REV (SLR) WASTEWATER TREATMENT PLANT AERATION BASIN EFFLUENT PIPING REPLACEMENT | The work involved providing all necessary tools, equipment, materials, supplies, and labor for the removal and replacement of six 24-inch aeration basin effluent pipes. This included installing new plug valves, fittings, and pipes, as well as wall penetrations, gate valves, and flow meters. The contractor supplied transportation, fuel, power, water, and bypass pumping, ensuring all operations comply with the Contract Documents. **Construction Cost: \$1.2M**

PILGRIM CREEK SEWER LIFT STATION IMPROVEMENT PROJECT | The Pilgrim Creek Sewer Lift Station in Oceanside, originally constructed in 1976, underwent a comprehensive rehabilitation project. This project included extensive civil, mechanical, structural, electrical, and controls upgrades. Key improvements involved modifying the existing panel, installing new variable frequency drives, service conduits, and conductors, and adding a Supervisory Control Data Acquisition (SCADA) system for suction pressure transducer feedback. The rehabilitation replaced the old submersible pumps with three new chopper pumps on slide rail systems, combined the wet well and dry well into a single large wet well, and replaced the concrete containment area with a new valve vault. These upgrades enhanced storage capacity, improved safety, and provided better access and working conditions for maintenance staff. **Construction Cost: \$1.6M**

Amy Czajkowski, PE, CCM, QSD/P

Senior Project Manager



Education:

BS/1982/Civil
Engineering/Virginia
Polytechnic Institute and State
University, VA

Registrations:

1999/PE/Civil Engineering/
CA # C59082

Certifications:

CMCI Certified Construction
Manager (A1762)
Qualified SWPPP Developer
(QSD) Certification #24758
Legally Responsible Party
(LRP) - City of Oceanside

Awards and Recognition

West Lift Station Force Main
CWEA
Twin Oaks Reservoir –
ASCE/APWA/CELSOC
Lake San Marcos Lift Station
APWA/CWEA
Loretta Street Waterline
Replacement –APWA/ASCE

Years of Experience

Entered the profession in
1993; Ardurra year of hire
2020

In her 30 years of serving municipalities, water districts, and purveyors, Amy Czajkowski has gained recognition for system planning, design engineering, and construction management of public water and wastewater infrastructure projects. She is an instructor for the CMAA Certified Construction Manager “Contract Administration” class. This teaching requires expertise in contract administration, change order management and, most importantly, the roles and responsibilities of complex construction. Amy has also contributed to the ASCE class for “Construction Claims Avoidance” and keeps up to date on the latest legal judgements from participating in the monthly podcasts offered by “Construction Claims Monthly.”

RELEVANT PROJECT EXPERIENCE

CITY OF OCEANSIDE (WATER UTILITIES DEPARTMENT), AS-NEEDED PROJECT MANAGEMENT

| Program manager provided in-house project management services to assist with the execution of several capital improvement projects. Assisted with the management of all phases of water, sewer, and recycled water projects, from the budgetary and planning phases, into design, and through construction and project closeout. Management duties have included the development of project budgets and schedules; preparation of RFPs; proposal reviews and recommendations for consultant selection; close coordination with stakeholders and vendors; contract administration duties; preparation of reports for City committees, commission, and City Council meetings; oversight of CEQA and other regulatory compliance process; preparation of bid documents and technical specifications; bidding assistance, bid evaluations, and award recommendations; CM and reviews of RFIs, submittals, Proposed Change Order Requests, Progress Payments; and management of emergency projects.

CITY OF OCEANSIDE (WATER UTILITIES DEPARTMENT), AS-NEEDED PROGRAM MANAGEMENT

| CIP manager for this program for the City of Oceanside Water Utilities Department. This contract included the preparation of over 15 in-house designs, RFP preparation, managing consultant contracts, preparation of staff reports and other Council documents, as well as all other functions to complete all projects listed on the City’s Capital Improvement Program.

ELSINORE VALLEY MUNICIPAL WATER DISTRICT (EVMWD), NEAR TERM WATER SUPPLY CIP

| CIP construction manager/program manager for over 40 CIP projects ranging in construction value from \$300K to \$10M. The CIP execution rate was over 90% and all projects were completed on time and with an overall 2% change order rate. The projects, totaling over \$25M, encompass a wide range of work. Services included coordinating and supervising all inspections for in-house inspection staff and outside consultants; processing all RFIs, progress payments, and conducting all progress meetings; managing three emergency construction projects including the repair of a sewer force main in Highway 74; public outreach; overseeing the District’s Labor Compliance Program; acting as the SMARTS system Legally Responsible Party and performing all QSP inspections; performing all claims management; coordinating with jurisdictions to complete permits; and coordinating with SCE to secure new electrical service.

COACHELLA VALLEY WATER DISTRICT, ON-CALL PROJECT MANAGEMENT SUPPORT SERVICES

| Program manager that expedited the completion of CIP projects located throughout CVWD’s service area for domestic water, general district, sanitation, non-potable water, irrigation and drainage, stormwater, and groundwater replenishment infrastructure, in an effort to achieve a minimum 70% execution rate for the FY 2018 capital improvement budget, identified as one of CVWD’s strategic goals. Assisted with the management of all phases of water, sewer, and recycled water projects, from the budgetary and planning phases, into design, and through construction and project closeout. Management duties have included the development of project budgets and schedules; preparation of RFPs; proposal reviews and recommendations for consultant selection; close coordination with stakeholders and vendors; contract administration duties; preparation of reports for City committees, commission, and City Council meetings; oversight of CEQA and other regulatory compliance process; preparation of bid documents and technical specifications; bidding assistance, bid evaluations, and award recommendations; CM and reviews of RFIs, submittals, Proposed Change Order Requests, Progress Payments; and management of emergency projects.

Anissa Voyiatzes, PE, ENV SP, QSD

Senior Project Manager



Education:

BS/1993/Civil Engineering/
California State University,
Chico

Registrations:

1997/PE/Civil Engineering/
CA #57710

Certifications:

Envision Sustainability
Professional/Institute for
Sustainable Infrastructure
Qualified SWPPP
Developer/
California Stormwater
Quality Association

Years of Experience:

Entered the profession in
1994; Ardurra year of hire
2019

Anissa Voyiatzes has 29 years of experience in civil engineering planning, design, program and project management for transportation and public works facilities. These projects have included bikeway, roadway widening, rehabilitation, ADA compliance evaluation and improvements, complete streets and streetscape projects, utility engineering, site grading, traffic engineering, flood control facilities, drainage systems, sewer and water systems, parking lots and retaining walls. Anissa specializes in public works engineering projects that incorporate sustainable design practices.

RELEVANT PROJECT EXPERIENCE

CITY OF SANTA MONICA, OLYMPIC WELL FIELD RESTORATION AND ARCADIA WTP EXPANSION

| The project involved constructing a new Olympic Advanced Water Treatment Facility (AWTF) at the Arcadia WTP to address contaminants such as 1,4-Dioxane and TCE using advanced oxidation processes and granular activated carbon. It also included upgrading the Arcadia WTP to increase its water recovery to over 90% with Flow Reversal RO technology, expanding capacity from 10 to 13 mgd. The upgrades at the Arcadia WTP featured new filtration systems, chemical storage, RO feed pumps, UV reactors, and expanded facilities. Additionally, the project included installing a new AOP system and hydrogen peroxide storage at the Olympic AWTF, isolating existing filters for pretreatment, and upgrading electrical systems and transformers to support the enhancements. **Construction Cost: \$70M**

CITY OF TORRANCE, VAN NESS WATER WELLS TRANSMISSION MAIN

| This city-funded project involved installing potable water mains to transport well water from three wells near Artesia Boulevard and Van Ness Avenue to a storage, treatment, and pumping facility near Border Avenue and Plaza Del Amo. The work included constructing 30-inch, 24-inch, and 18-inch water transmission mains using steel and ductile iron, as well as installing storm drains, catch basins, and relocating sewer pipes and manholes.

CITY OF LONG BEACH, MARKET STREET PEDESTRIAN AND STREETScape ENHANCEMENTS PROJECT (LA RIVER TO CHERRY AVENUE)

| Quality control manager and group leader for the design of the roadway and for a pedestrian and streetscape enhancement project, an approximate 1.9-mile stretch of corridor. The project consists of complete street improvements including Class II/IV bike lanes and other new bike/pedestrian facilities, bulbouts, wayfinding signage, sidewalk widening, crosswalk and transit stop enhancements, construction/reconstruction of curb ramps

for ADA compliance, repairing sidewalks, curbs, and gutters, reconstructing/ resurfacing roadway pavement, pedestrian lighting, traffic signal installation/upgrades, flashing beacons, landscaping and street trees, removing/relocating obstructions and utilities, and miscellaneous sustainable design features for improved mobility and safety.

CITY OF LONG BEACH, LONG BEACH PEDESTRIAN ACCESSIBILITY IMPROVEMENTS DESIGN

| Senior project manager responsible for evaluation and design of curb ramps to support the Citywide Curb Ramp program. Anissa previously managed the development of the City's Self Evaluation/Transition plans and is continuing that work with the citywide implementation for the placement and upgrade of all curb ramps at approximate 22,000 locations. The project includes ramp evaluation for ADA compliance, schematic and final design, and cost estimating.

CITY OF MANHATTAN BEACH, 2019 CYCLE 1 RESIDENTIAL STREET IMPROVEMENTS

| Senior project manager responsible overseeing the design and management for five miles of street improvements at various locations around the city. Design work included pavement rehabilitation, curb and gutter construction, sidewalk construction, and driveway construction. The project also included reconstruction of 61 curb ramps.

CITY OF TORRANCE, PLAZA DEL AMO AT WESTERN MOBILITY ENHANCEMENT, T-177

| Senior project manager for the preparation of construction documents for the roadway widening of Plaza Del Amo from 223rd Street to Western Avenue to improve circulation and safety. Improvements include widening of the roadway on the north side, addressing roadway and stormwater deficiencies, restriping, curb and sidewalk and ADA-compliant ramp upgrades. Processed Caltrans Encroachment Permit for modifications and improvements at Western.

OMAR ALAMEDDINE. EIT

Senior Project Manager



Education:

BS/2009/Civil Engineering/
California State Polytechnic
University, Pomona

Registration:

EIT/CA #151070

Years of Experience:

Entered the profession in
2006; Ardurra year of hire
2016

Omar Alameddine brings an extensive background in construction management and inspection on public works and Caltrans projects. Omar has delivered projects to renew city streets and freeways, applying his firm grasp of Caltrans and Greenbook standards. He has also managed and inspected construction of recreational facilities such as soccer fields, public parks and a dog park, public facilities, domestic water, sewer, and drainage improvements. Clients appreciate Omar's penchant for precision and thorough documentation.

RELEVANT EXPERIENCE

CITY OF RIVERSIDE, LINCOLN AVENUE TECHITE PIPE REPLACEMENT PROJECT, PHASE I | The project involved constructing approximately 3,400 linear feet of 54-inch cement mortar-lined steel pipe and related appurtenances along Lincoln Avenue in the City of Riverside. This included trenching in the public right-of-way, welding steel pipe, and installing various infrastructure elements. The excavation varied from 4 to 18 feet deep and affected local residential and arterial streets. The scope covered traffic control, including signalized intersections and striping, as well as asphalt paving and concrete work.

CITY OF ANAHEIM, ORANGEWOOD AVENUE IMPROVEMENTS (FROM STATE COLLEGE BOULEVARD TO THE SANTA ANA RIVER) | Contract administrator/construction manager for this \$17 million multifaceted road widening project on Oranewood Avenue that spans a largely commercial area within proximity to several freeways along the south entrance to Angel Stadium of Anaheim. Improvements include road widening and paving, sidewalks, slough walls, curbs and gutters, retaining/block/sound walls, driveways, cross gutters and

spandrels, drainage improvements, catch basins, WQMP BMP improvements, Disney Resort-Style hardscape and landscaping, irrigation improvements, and signing and striping, as well as electrical undergrounding with telecommunication lines relocation, installation of new City of Anaheim and City of Orange water mainline, traffic signal improvements, and a new variable message board.

CITY OF ANAHEIM, CAPITAL IMPROVEMENT PROJECTS | Contract administrator/construction manager augmenting the City's Public Works staff to expedite the completion of more than \$57 million in projects that have included Fire Station No. 5 (2018 BEST Award, APWA Southern California chapter), Indiana Street Water Main Replacement, Santa Ana Street Railroad Water Main Crossing with Metrolink/SCRRA, Citywide Sanitary Sewer Improvement Program/Projects – Group 6, and Underground Conversion Plan Projects.

CITY OF RANCHO SANTA MARGARITA, ANTONIO PARKWAY/SANTA MARGARITA PARKWAY REHABILITATION | Construction manager for the \$834,000 federally funded rehabilitation of two busy arterials. The project resurfaced a portion of Antonio Parkway and made improvements to Santa Margarita Parkway's eastbound lanes. Ensured compliance with federal, DBE and labor compliance requirements.

MANHATTAN BEACH, POLLIWOG PARK LOWER PLAYGROUND REPLACEMENT PROJECT | Construction manager for this \$3.7-million project that includes removal and replacement of out-of-service play equipment, play surface, fencing, as well as renovation of parking lots and walkways. The new playground will include a pirate and beach themed design using a community consensus process, complete with new play surfaces and shade structures.

CITY OF MANHATTAN BEACH, PARKING STRUCTURE LOT 4 REPAIRS PROJECT | Inspection services manager to provide inspection services and special inspections for the repairs to the functional life of Parking Structure Lot 4 (Project No. D-936) to confirm contractor compliance with the construction documents. These items include concrete repairs, sealants, and waterproofing coating of the upper deck, striping new pavement, and accessibility related improvements to the parking stalls and path of travel.

CITY OF SOUTH GATE, FIRESTONE BLVD REGIONAL CORRIDOR CAPACITY ENHANCEMENTS | Assistant construction manager/lead inspector for a \$20-million project to improve three segments of Firestone Blvd to increase traffic capacity and improve the road's appearance. Ensured project compliance with plans and specs. Provided fast-track design efforts for newly proposed bus pullouts, median construction, and drainage facilities. Observed utility potholing, traffic control and stormwater practices.

Project Manager



EDUCATION

- » BSCE – California State University – Long Beach

LICENSES & REGISTRATION

- » Professional Engineer, P.E. State of California, #67989
- » SWPPP (QSD) & (QSP) Certificate #23613
- » 30-Hr. Cal OSHA
- » Defensive Driving Training

Ms. Naslund has over 28 years of project management experience for various major capital improvement projects. Projects Ms. Naslund have successfully delivered are bridges, interchanges, transportation, street improvements, roadway widenings, bridges, water and wastewater projects, involving flood risk management, water conservation facilities, water mains, pressure regulating and pumping stations, wells, valves, fittings, and other appurtenances, reservoirs, channels, and storm drains, as well as access roads, and culverts. Ms. Naslund has extensive experience performing design reviews, constructability reviews, scheduling, managing consultants, interfacing with permitting agencies, reviewing billings and contracts for scope of work, preparing staff reports, preparing RFPs, preparing and administering bids, creating LID reports, performing hydrology calculations, preparing SWPPP, plan check, and designing and preparing tract and parcel maps. Ms. Naslund has extensive experience delivering projects within schedule and budget and collaboratively assisting agencies as an extension of staff.

Relevant Project Experience

CITY OF VERNON | 50th STREET WATER MAIN REPLACEMENT PROJECT | The project involved replacing a 12-inch water pipeline and updating existing water services. It included mobilization, excavation, potholing, and site cleanup, as well as installing new ductile iron pipe, joint bonding, and cathodic protection. The work required developing and implementing approved traffic control and shoring plans, maintaining a Stormwater Pollution Prevention Plan (SWPPP), and coordinating the installation of various service laterals and fire hydrants. The contractor also depressurized and abandoned an existing 10-inch cast iron main, ensuring proper testing, disinfection, and site restoration. **Construction Cost: \$1.6M**

WESTERN MUNICIPAL WATER DISTRICT (WMWD) | VICTORIA AVENUE RECHARGE WATER FACILITY | The Victoria Avenue Recharge Water Facility was developed to address the increasing need for a local water resource to enhance groundwater production and management. In response, the Western Municipal Water District implemented the installation of new groundwater extraction wells at the 10-acre site on Victoria Avenue and Jackson Street, which aimed to recharge the Arlington basin by more than 3,000 acre-feet annually. The project included grading recharge and detention basins, constructing access roads, concrete masonry unit walls, fencing, and site restoration. Key elements included the installation of non-potable and potable water pipelines, stormwater inlet structures, and conveyance channels. It also involved the construction of a SCADA and storage building, along with comprehensive onsite electrical, instrumentation, and monitoring wells to ensure a fully operational system. **Construction Cost: \$8M**

CITY OF CHINO

WELL 11 RAW WATER TRANSMISSION MAIN PROJECT | The work involved furnishing all labor, materials, and equipment to install approximately 1.5 miles of new 16-inch water main using PVC and CML&C steel, including associated fittings, valves, blow-off assemblies, and combination air valves. Construction was carried out in existing city streets. Additionally, the project required modifications to the existing control panel, programming, SCADA host system, and the provision of a new HMI and programming. **Construction Cost: \$2.6M**

WELLS 4 & 6 WATER TREATMENT FACILITY | This involved groundwater Wells 4 and 6, which had been inactive due to updated regulations requiring higher drinking water standards set by the SWRWQCB. The City aimed to reduce reliance on imported water and expand access to local groundwater supplies, as outlined in the City of Chino Water Master Plan Update from January 2020. Wells 4 and 6 were identified as priority projects in this plan. The treatment plant, designed to handle 1,700 gallons per minute (gpm), would contribute to approximately 34% of the average day demand within the pressure zone, which supplies 52% of the overall service area. The project included constructing a new 2 million gallon per day (MGD) groundwater treatment facility and connecting the two wells, which were inactive due to water quality contamination from historical agricultural and manufacturing activities in the Chino Basin. **Construction Cost: \$10M**

YORBA AVENUE AND EUCALYPTUS AVENUE SEWER MAIN REPLACEMENT PROJECT | The work included replacing existing 10-inch and 15-inch vitrified clay pipe (VCP) sewer mains with larger diameter VCP or high-density polyethylene (HDPE) pipe using a combination of trenchless and open trench methods. It involved installing steel casing across railroad property, setting up temporary bypasses, and replacing or rehabilitating existing sewer manholes. The project also required removing existing sewer manholes, reconnecting sewer laterals, and performing pipe backfill and bedding with asphalt concrete overlay for trench repairs. Additional tasks included adjusting existing utility lines, making full-depth asphalt concrete pavement repairs, applying slurry seal, crack sealant, and weed abatement, restoring traffic detector loops, performing striping and traffic control, conducting night work, and carrying out post-construction closed-circuit television (CCTV) inspections. **Construction Cost: \$3.5M**

Pernilla Brandt, BSCE

Project Manager



EDUCATION

- » BSCE – California State University – Long Beach

LICENSES & REGISTRATION

- » 30-Hr. Cal OSHA
- » Defensive Driving Training

Ms. Brandt is a seasoned engineer with over 20 years of experience in engineering design and management specializing in municipal, commercial and residential projects. Extensive experience in all aspects of engineering project leadership including strategic planning, engineering and architectural specifications and drawings, scheduling, resource allocations, reporting, and cross-functional team collaboration. Continually exceeds expectations by building valuable relationships and works well with people at all levels of an organization including management, team members, contractors, and clients.

RELEVANT PROJECT EXPERIENCE

CITY OF CHINO

WELL 17 EQUIPPING PROJECT | The Project includes equipping and operating existing Well 17. The improvements were confined to the well location, except for pipe and electrical conduit trenches that crossed the Eastside Water Treatment Facility (EWTF) site to connect to existing facilities. The project included grading and compaction for the well building, building access, and pump-to-waste swale. The well building was designed to enclose the wellhead pump and piping and is constructed of masonry block shear walls supported by a continuous footing foundation. The pump-to-waste swale extended the existing defined earthen channel connected to the EWTF percolation pond. **Construction Cost: \$4M**

RUSSELL AVENUE WATER LINE REPLACEMENT PROJECT | The project involved removing and replacing the water main along Russell Ave from Walnut Ave to Terry Ave.

It included installing 700 linear feet of new 8-inch PVC C900 DR 14 water main, performing trench backfill and roadway repairs, and installing fire hydrant assemblies, gate valves, and tees with thrust blocks. The work also encompassed installing new 1-inch domestic water service laterals and connecting them to existing water meters, making lateral connections within 3 feet of the water main centerline, saw cutting, and replacing existing cross gutters. Additionally, the project required cutting, plugging, and abandoning the existing water main and removing old fire hydrants. **Construction Cost: 2.3M**

BENSON AVE STORM DRAIN PROJECT | The project, located on Riverside Dr. from Benson Ave to Ross Ave, involved the installation of over 1,800 linear feet of reinforced concrete pipe (RCP) ranging from 24" to 54". It also included the construction of 14 reinforced storm drain structures and seven crossing/support structures for existing utilities. Additionally, 75 linear feet of existing traffic signal conduit and cable were relocated. After completing trench repairs, 80,000 square feet of Type II asphalt road slurry was placed, and traffic signal loops were replaced. **Construction Cost: \$2M**

KIMBALL AVENUE STORM DRAIN IMPROVEMENTS AT CHINO AIRPORT | This project involved the removal and disposal of existing landscaping, PCC and AC pavement, and the construction of AC pavement over a compacted base, PCC sidewalks, and curbs and gutters. A box culvert storm drain structure with wingwalls, a catch basin, stormwater infiltration system, and steel-encased water lines were installed, along with various other water lines and facilities. The project also included coordinating utility installations, relocating traffic signal boxes, paving AC dikes, water services, clearing and grubbing, and installing rip rap and grouted rip rap. Additionally, reinforced concrete box culvert wingwalls, precast box culverts, 30" and 24" steel pipes, ductile iron pipes, and water mains were installed and tested. Curb, gutter, ADA ramps, and fencing were also completed. **Construction Cost: \$3M**

PHILADELPHIA STREET AND MONTE VISTA AVENUE STORM DRAIN IMPROVEMENT PROJECT | The Project involved relocating water service lines and sewer laterals, constructing asphalt concrete and aggregate base for trench backfill and roadway repair, and removing and disposing of existing curbs, gutters, and sidewalks. Storm drain pipes ranging from 18" to 66" were installed, along with manholes, transition structures, catch basins, and connector pipe screens. The project included constructing local depressions, new PCC cross gutters, replacing loop detectors, and completing pavement markings, striping, and curb markers. **Construction Cost: \$2M**

CENTRAL AVENUE AND DUPONT AVENUE WATERLINE REPLACEMENT PROJECT | The Central Avenue project involved replacing a 16-inch steel water main with an 18-inch PVC pipe along Central Avenue from Chino Avenue to C Street, and replacing an 8-inch steel line on D Street from Central Avenue to the alley west of 6th Street. The project included connections to Chino Avenue, D Street, Alley 16, and two other alleys, with line stops for tie-ins due to insufficient valving. The Dupont Avenue project included replacing an 8-inch DIP waterline with a 12-inch C-900 PVC pipe along Dupont Avenue from Alton Street to Gates Street, and also involved replacing multiple water service connections and fire service laterals. **Construction Cost: \$5.8M**

Project Manager



EDUCATION

- » Bachelor of Science in Civil Engineering – California State University, Long Beach

TRAINING & REGISTRATION

- » Engineer-In-Training (EIT), State of California, #170698
- » Caltrans Temporary Pedestrian Facilities Training
- » 30-Hr. Cal OSHA
- » Defensive Driving Training
- » Sexual Harassment Prevention Training

Mr. Flores has experience in project management, construction management, contracting, field investigation, project management, and quality control for numerous capital improvement projects and federally funded projects, involving street improvement, bridge construction, storm drains, traffic signals, traffic signs, streetlights, pavement markings, construction projects, and maintenance projects. Mr. Flores has a thorough understanding of Cal-OSHA practices and procedures, ADA and Caltrans ADA requirements, as well as extensive knowledge of Caltrans construction practices, physical characteristics and properties of highway construction materials, and approved methods and equipment used in making physical tests of construction materials. Additionally, Mr. Flores is familiar with Caltrans field and construction office procedures, with experience assisting in inspection to assure compliance with plans and specifications, assisting in preparation of contract change orders, contract estimates, and progress payments, coordinating field testing of materials for compliance with project specifications and the Caltrans Quality Assurance Program, maintaining accurate project records, performing analytical calculations, and monitoring Contractor progress by preparing progress reports as required.

RELEVANT PROJECT EXPERIENCE

CITY OF PICO RIVERA | WATER MAIN REPLACEMENT PROJECT Z&K Consultants provided full-time inspection services. Z&K ensured that qualified personnel were available for continuous inspection to meet all construction requirements, including adherence to construction documents, public works specifications, and regulations such as Underground Service Alert notifications and NPDES best management practices. The inspector from Z&K checked materials and equipment upon delivery, met daily with the Contractor to review work plans, and monitored testing results to enforce compliance. They maintained all necessary permits, an "Inspector Diary," and a ring binder with photographic documentation of construction progress. The Water Main Replacement Project addressed outdated pipelines at various locations, including Eglise Ave., Cord Ave., Hasty Ave., Sideview Dr., Songfest Dr., Bennington Ave., Farmland Ave., Woodford St., Sandoval Ave., and Washington Blvd. **Construction Cost: \$6.5M**

CITY OF RIVERSIDE | LINCOLN AVENUE TECHITE PIPE REPLACEMENT PROJECT, PHASE I | Z&K provided inspection services with a comprehensive understanding of construction practices and methods, proficiency in construction documentation, and effective communication skills. Our expertise included project coordination and resourcefulness, adherence to construction plans and specifications, and excellent customer service. Our team handled trench excavation, shoring, backfill, and pipeline installation. We maintained updated As-Built Plans, ensured compliance with drinking water guidelines and NPDES, and covered asphalt paving, traffic control, concrete work, and other project-specific construction practices. The project involved constructing approximately 3,400 linear feet of 54-inch cement mortar-lined steel pipe and related appurtenances along Lincoln Avenue in the City of Riverside. This included trenching in the public right-of-way, welding steel pipe, and installing various infrastructure elements. The excavation varied from 4 to 18 feet deep and affected local residential and arterial streets. The scope covered traffic control, including signalized intersections and striping, as well as asphalt paving and concrete work. Daily construction reports were produced using the City's construction management software. **Construction Cost: \$7M**

CITY OF HEMET | SEWER MAIN REPLACEMENT PROJECT | The inspection scope of work for this sewer project included monitoring compliance with the approved plans, specifications, and permit requirements. Tasks involved preparing detailed daily reports with photos for immediate electronic distribution and performing measurements and calculations of installed sewer mains and manholes. The work required checking grades and alignments of new 8-inch PVC sewer mains and manholes, reviewing construction traffic control measures along Kirby Street, Gibbel Park, Florida Ave, and Thompson Street, and enforcing environmental compliance related to dust control, storm water discharge, and noise. Compaction testing was coordinated to ensure proper installation and structural integrity of the new sewer facilities. The project involved bypass pumping, removal or abandonment of existing sewer facilities, and the installation of new 8-inch PVC sewer mains and sewer manholes. It also included connecting existing laterals to the new mains and conducting trench repairs. The work was performed along Kirby Street (from Devonshire Ave. to Florida Ave.), Gibbel Park (from G.P. Restrooms to Kirby St.), Florida Ave (from Kirby St. to Gilmore St.), and Thompson Street (from Acacia to Central Ave., with the sewer main located on the opposite side of the street), following the approved plans and specifications. **Construction Cost: \$1.3M**

Project Manager



EDUCATION

- » Construction Technology,
Orange Coast College
- » Building Inspection
Technology,
Coastline College,
Huntington
Beach, CA

LICENSES & REGISTRATION

- » Water Treatment Operator –
Grade 2 | Certificate No. 17150
- » Water Distribution Operator –
Grade 3 | Certificate No. 4903
- » QSP Certificate No. 26356
- » Traffic Signal Senior Field
Technician III Certificate No.
97687
- » Traffic Signal Inspector
Certificate No. SI97687

Mr. Nylund has over 34 years of experience providing quality control and quality assurance with extensive experience on of numerous major capital improvement projects including transmission mains, new wells, tanks, reservoirs, water and wastewater treatment plants, pipelines, lift stations, booster pump stations, bridges, street improvements, retaining walls, dewatering, parks and facilities, landscaping and irrigation improvements, utility installation, roadway widenings, grade separations, masonry walls, storm drain projects, roadway projects, street rehabilitations, and large-scale water and wastewater projects. He has extensive experience in public agency construction inspection and encroachment permits inspection.

RELEVANT PROJECT EXPERIENCE

CITY OF LONG BEACH UTILITIES DEPARTMENT PROJECTS

EQUIPPING OF WATER WELLS NORTH LONG BEACH 13 AND NORTH LONG BEACH 14 | The project involved equipping Water Wells North Long Beach 13 and North Long Beach 14. It included installing well pumps, constructing pipelines, performing utility and underground work, and setting up water system plants and electrical systems. The scope also covered maintenance and repair services for well equipment and pumps. Key items included general construction, water system construction, well services, equipment maintenance, and electrical work related to pump installations and system upgrades. **Construction Cost: \$5M**

S-25 SEWER LIFT STATION REHABILITATION | The project involved replacing the mechanical and electrical systems inside the lift station, including pumps, ventilation, piping, electrical conduits, instrumentation, and the diesel-powered standby generator. It also included installing a new maintenance hole (MH) and 12-inch VCP, paving an AC access path, and relocating the bypass pumping connection to outside the lift station. The new MH was interconnected with an existing manhole and accessed via a new AC paved driveway, with a concrete masonry wall constructed to retain the MH. A bypass pumping system was required for construction. **Construction Cost: \$4M**

S-8 SEWER LIFT STATION REHABILITATION | The Project focused on extensive upgrades and modifications to the existing lift station. Key activities included the installation of 8" HDPE bypass and force mains, abandonment of the old 6" CIP force main, and various site improvements such as paving and new equipment access. The project required removing outdated pumps, piping, and electrical systems, and installing new concrete pads, equipment, and a wet well access hatch. Upgrades included new pumps, a ventilation fan, a flow meter, and a bubbler level system. Electrical systems were overhauled with new conduits, grounding systems, and an SCE transformer. The wet well was rehabilitated with a new liner and concrete surface repairs. Seismic bracing was installed for equipment, and comprehensive testing was conducted to ensure system functionality. **Construction Cost: \$4M**

LARGE POTABLE WATER VALVE REPLACEMENT WILLOW STREET PROJECT | The project involved replacing existing 20-inch gate valves with new 20-inch butterfly valves in the Long Beach Water System. The work required protecting and supporting existing utilities, excavating to expose large valves and piping, and constructing linestop assemblies and restraint systems. The gate valves were replaced at three locations: Willow Street and Delta Avenue, Willow Street and Santa Fe Avenue, and Spring Street and Delta Avenue. Additional tasks included leakage testing, disinfection of improvements, backfilling excavations, and restoring pavement. **Construction Cost: \$1M**

JWJ RESERVOIR CHEMICAL DOSING SYSTEM PROJECT | The project involved improvements to the J. Will Johnson Reservoir Chemical Dosing system. The work included protecting existing facilities such as 24-inch butterfly valves and chain link fencing and maintaining influent water service throughout construction. Key tasks included removing and disposing of a 7,500-gallon steel storage tank, metal canopy, plastic storage containers, and adjustable canopy, as well as disconnecting two chemical dosing pumps and associated tubing. The project required demolishing existing asphalt pavement, electrical control panels, and conduits; excavating for a new vault, yard piping, and electrical conduit; and installing a subsurface precast concrete vault. Additional work included installing two 24-inch in-line mixers, relocating a 24-inch sleeve valve, installing new 24-inch butterfly valves, drainage connections, carrier pipes, dual wall chemical storage tanks, a scrubber tank, chemical dosing pumps, and associated instrumentation. The project also involved setting up a pre-engineered metal canopy, power distribution panel, electrical conduit, vault lighting, booster pump, motor starters, ground rods, and constructing a reinforced concrete pad. **Construction Cost: \$3M**

Agenda Item

6.B.

Board of Directors Meeting

Meeting Date: October 3, 2024

TO: Board of Directors

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

STAFF CONTACT: Mike Matson, Support Services Manager
Jeanette Cotinola, Procurement/Contracts Manager

SUBJECT: Contract Award for SCADA Server Upgrades
[Project Committees 2 and 15]

Summary

The supervisory control and data acquisition (SCADA) infrastructure architecture requires upgrades to address hardware obsolescence and to restore operating system performance at each treatment plant. The project costs \$405,900.00 and will be completed through W. M. Lyles, Co.

Overview

Staff solicited quotes to replace SOCWA's SCADA servers. This is because the SCADA servers are recommended for replacement every 5 to 10 years or when equipment becomes obsolete. The SCADA servers were last replaced in 2015 for JBL/CTP and in 2016 for RTP. The existing SOCWA SCADA servers are starting to experience hard drive failures, but they have not affected functionality to date. The existing hardware does not support the latest version of the WIN911 (alarm callout software), which will also be upgraded with this project. The existing CISCO switches have been identified as obsolete and no longer supported. Finally, the firmware cannot be updated due to the age of hardware for the latest security threats.

Thus, the recommended upgrades are listed below to maintain functionality and the existing high level of cybersecurity.

The SCADA infrastructure upgrade project will include the following elements for each site:

- SCADA Server Hypervisor with OS licenses
- SCADA Historian Hypervisor with OS licenses
- QNAP Network Attached Storage Devices
- New Hard Drives
- New Voice Modem for Alarm Dialers
- VMWare Essential – Software Packages
- New Cisco High-Performance Switch and Associated Cables
- WIN911 Software Update
- Project Management, Onsite Installation, and Server Programming Services

Prior Related Project Committee or Board Action (s)

This item was carried over from the May 2, 2024, Board of Directors meeting to clarify some questions. This item was brought back to the Engineering Committee on September 12, 2024. The Engineering Committee recommended only moving forward with the JBL and CTP SCADA servers' replacement and removing the RTP server from the award.

Proposal Review

Staff solicited bids from qualified contractors through PlanetBids on July 10, 2024. The Request for Quotes (RFQ) went to 13 contractors, and SOCWA received one (1) quote from W.M. Lyles for \$405,900.00 (excluding RTP).

The best value offer for SOCWA is \$405,900.00 from W. M. Lyles, Co. Staff also requests a contract contingency of \$20,296.00 (5% of the contract) for unknown issues or conditions found during the onsite installation process. Contingency use will be applied to the Project Committee where the expenses occur.

Cost Allocation, including Contingency

Project Committee 2 (32243C)

Agency	Common Allocations	Project Allocations
MNWD	22.35%	\$47,625.85
SCWD	24.42%	\$52,045.09
SMWD	53.23%	\$113,427.80
Subtotal	100.00%	\$213,098.00

Project Committee 15 (35249L)

Agency	Liquids Allocations	Project Allocations
CLB	37.91%	\$80,786.41
EBSD	2.99%	\$6,361.13
MNWD	29.25%	\$62,339.12
SCWD	29.85%	\$63,611.34
Subtotal	100.00%	\$213,098.00

Total Project Allocations, including Contingency

Agency	Project Allocations
CLB	\$80,786.41
EBSD	\$6,361.13
MNWD	\$109,964.97
SCWD	\$115,656.43
SMWD	\$113,427.80
Totals	\$426,196.00

The FY2023-24 budgets for Projects 32243C and 35249L are \$200,000 each. Staff is requesting an additional budget of \$20,000 for each budget.

Recommended Action: The Engineering Committee recommends that the Board of Directors i) increase the FY2023-24 budgets for Projects 32243C and 35249L by \$20,000 to \$220,000 each (\$440,000 Total) ii) award a contract to W. M. Lyles, Co. for purchasing and installing replacement SCADA servers at JBL and CTP at the cost of \$405,900.00, and iii) authorize a contract contingency of \$20,296.00 (5% of the contract).

Attached: W.M. Lyles Quote (RTP included)
Labor & Equipment Rate sheet
Software Rate Sheet

Bid Date: 08/15/2024**Quote Number: 56-2024-0036-02****Re: CTP, JBL & RTP SCADA Upgrades – South Orange County Wastewater Authority (SOCWA)**

We are pleased to provide the following lump sum proposal for work on the above referenced project. Our scope of supply includes SCADA hardware, software and configuration services. This upgrade consists of new hardware, software, on-site installation/testing, and SCADA programming services for the CTP, JBL & RTP Site Locations.

Item	Qty	Description	Reference
CTP Site Location			
1.	2	Dell – R450 SCADA Server Hypervisors Including OS Licenses (OS, Client, RDS)	E-Mail Scope Confirmation
2.	1	Dell – R450 SCADA Historian Hypervisors with OS Licenses (OS, Client, RDS)	E-Mail Scope Confirmation
3.	1	Dell Server – R450 DMZ Hypervisor Including OS Licenses (OS, Client, RDS) – Demilitarized Zone Hardware	E-Mail Scope Confirmation
4.	1	QNAP – TS-431xeU-8G-US – 4-Bay NAS – Network Attached Storage Device	E-Mail Scope Confirmation
5.	4	Western Digital – 4TB Gold – Hard Drives	E-Mail Scope Confirmation
6.	2	Grandstream – UCM6301 – Voice Modem for Alarm Dialer	E-Mail Scope Confirmation
7.	1	VMWare Essential – Software Package	E-Mail Scope Confirmation
8.	1	Cisco – C9200L-24T-4G-E with License	E-Mail Scope Confirmation
9.	0	Eaton – 5.5kVA – Uninterruptible Power Supply ‘UPS’ with Industrial Gateway Card (Optional Deduct Included Below)	E-Mail Scope Confirmation
10.	0	Eaton – Battery Packs – 1 Hour Runtime Requested (Optional Deduct Included Below)	E-Mail Scope Confirmation
11.	Lot	CAT-6 Cables – Cable Management	E-Mail Scope Confirmation
JBL Site Location			
12.	2	Dell – R450 SCADA Server Hypervisors Including OS Licenses (OS, Client, RDS)	E-Mail Scope Confirmation
13.	1	Dell – R450 SCADA Historian Hypervisors with OS Licenses (OS, Client, RDS)	E-Mail Scope Confirmation
14.	1	Dell Server – R450 DMZ Hypervisor Including OS Licenses (OS, Client, RDS) – Demilitarized Zone Hardware	E-Mail Scope Confirmation
15.	1	QNAP – TS-431xeU-8G-US – 4-Bay NAS – Network Attached Storage Device	E-Mail Scope Confirmation
16.	4	Western Digital – 4TB Gold – Hard Drives	E-Mail Scope Confirmation
17.	2	Grandstream – UCM6301 – Voice Modem for Alarm Dialer	E-Mail Scope Confirmation
18.	1	VMWare Essential – Software Package	E-Mail Scope Confirmation
19.	1	Cisco – C9200L-24T-4G-E with License	E-Mail Scope Confirmation
20.	0	Eaton – 5.5kVA – Uninterruptible Power Supply ‘UPS’ with Industrial Gateway Card (Optional Deduct Included Below)	E-Mail Scope Confirmation

Item	Qty	Description	Reference
21.	0	Eaton – Battery Packs – 1 Hour Runtime Requested (Optional Deduct Included Below)	E-Mail Scope Confirmation
22.	Lot	CAT-6 Cables – Cable Management	E-Mail Scope Confirmation
RTP Site Location			
23.	2	Dell – R450 SCADA Server Hypervisors Including OS Licenses (OS, Client, RDS)	E-Mail Scope Confirmation
24.	1	Dell – R450 SCADA Historian Hypervisors with OS Licenses (OS, Client, RDS)	E-Mail Scope Confirmation
25.	1	Dell Server – R450 DMZ Hypervisor Including OS Licenses (OS, Client, RDS) – Demilitarized Zone Hardware	E-Mail Scope Confirmation
26.	1	QNAP – TS-431xeU-8G-US – 4-Bay NAS – Network Attached Storage Device	E-Mail Scope Confirmation
27.	4	Western Digital – 4TB Gold – Hard Drives	E-Mail Scope Confirmation
28.	2	Grandstream – UCM6301 – Voice Modem for Alarm Dialer	E-Mail Scope Confirmation
29.	1	VMWare Essential – Software Package	E-Mail Scope Confirmation
30.	1	Cisco – C9200L-24T-4G-E with License	E-Mail Scope Confirmation
31.	0	Eaton – 5.5kVA – Uninterruptible Power Supply ‘UPS’ with Industrial Gateway Card (Optional Deduct Included Below)	E-Mail Scope Confirmation
32.	0	Eaton – Battery Packs – 1 Hour Runtime Requested (Optional Deduct Included Below)	E-Mail Scope Confirmation
33.	Lot	CAT-6 Cables – Cable Management	E-Mail Scope Confirmation
Associated Professional Services			
	Lot	<ul style="list-style-type: none"> • Project Management • Engineering (Submittals and O&M Manuals) • SCADA Programming <ul style="list-style-type: none"> ○ On-Site Installation, Terminations and Testing of New SCADA Hardware • Network Switch Configuration & Testing 	
Project Total with Bonding (Includes Associated Tax & Freight) =			\$608,851.00

Terms and Conditions

1. This Proposal is Valid for 90 days from the Date of this Quotation
2. This Proposal is Based on Mutually Agreeable Contract Terms and Conditions to be Negotiated and Executed Prior to any Work Being Performed
3. This Proposal is Based on a Standard 8-Hour Workday and 40-Hour Workweek – No On-Site Overtime, Weekend, or Holiday Work has Been Included or Allowed
 - A. Additional Mobilizations Requested Will be Invoiced on a Time & Material Basis
4. **Addenda Acknowledged: 0**
5. **Submittal Duration: Approximately 10-12 Weeks After Receipt of a Purchase Order**
6. **Delivery of Equipment: Approximately 12-24 Weeks After Formal Engineer of Record Submittal Approval**
 - A. Majority of Equipment & Software has a 4-8 Week Lead Time (After Submittal Approval) and the Above 12-20 Week Lead Time Reflects the Overall Project Scope Timeline – Each Site Will be Configured and Implemented Individually so the Timeline for the 1st Site will be Shorter, 2nd to Follow and 3rd to Close Out the Project Activities
 - B. Written Submittal Approval is Required for a Notice to Proceed with the Purchase of Products
 - C. Due to Current Manufacturer Lead Time Constraints Affecting the Industry, Anticipated Delivery Durations are Subject to Change and Updates Will be Provided to the Customer as Timeframe Constraints Occur
7. W. M. Lyles System Integration Division Proposal Includes FOB Job Site Full Freight
8. W. M. Lyles System Integration Division includes a 12-month Warranty from the Date of the Equipment Installation or 18-Months from the Date of Shipment (Unless an Extended Warranty is Specified and Defined in the Above Proposal)
 - A. Includes Coverage for Defects or Failures of Materials Provided
9. Schedule of Work is Subject to an Approved Agreeable Timeline Between the Owner, General Contractor, Electrical Contractor, and W. M. Lyles System Integration Division
10. Interest will be Applied on All Past Due Invoices
11. Final Retention to be Paid Within 10 Days After Project Completion
12. Terms are Net 30 Days on Approved Credit Accounts

Clarifications and Exclusions

1. This Proposal is Based on the Following Clarifications and Exclusions:
 - A. **Equipment & Services by Others** (Excluded)
 1. Network Racks to be Provided by SOCWA
 - B. **Specific Design Clarifications**
 1. Cisco Ethernet Switches & Licensing is Included (Optional Deduct Defined)
 2. APC Uninterruptible Power Supplies are Included (Optional Deduct Defined)
 3. Cybersecurity Best Practice Hardware Recommendations Included (Optional Adder Defined)
 4. All Other Software Not Included by W. M. Lyles SI is Provided by SOCWA (Rockwell FactoryTalk, VEEAM Backup, KepServerEX, Etc. – Including Manufacturer's Customer Support for All Software)
 - C. **Typical Equipment & Services Exclusions** (Unless Specifically Defined on the Above Scope)
 1. Local Control Stations
 2. Junction and Pull Boxes
 3. Disconnect Switches
 4. Security Equipment (Cameras, DVRs, Card Readers, Etc.)
 5. Conduit, Field Wire and Tubing
 6. Basic Trade Materials (Screws, Bolts, Brackets, Stanchions, Sunshields, Anchor Bolts, Etc.)
 7. Fiber Optic Patch Panels, Fiber Optic Cable, Fiber Optic Cable Testing and Terminations
 8. 3rd Party Testing, Harmonic Testing / Analysis, Protective Device Coordination Studies, Short Circuit Studies, and Arc-Flash Hazard Analysis / Training
 9. Electrical Interconnection Wiring Diagrams, ISA Loop Diagrams and Signal Loop Diagrams for Equipment Not Provided by W. M. Lyles System Integration Division or When Specifications Do Not Define the Require for these Specific Professional Services
 10. Liquidated Damages when Manufacturer or Vendor Timeframe Constraints Occur Outside of the W. M. Lyles System Integration Division's Control
 11. Video Taping of Professional Services (3rd Party Video Taping is Acceptable)
 12. Approved Submittals are Considered to Meet the Needs of the Project Specifics Based on the Engineer of Records Review, Comments and Approval
 1. Requests for Modifications to the Equipment or Professional Services After Submittal Approval Will Require a Change Order Before Any Modifications Occur Regardless of Schedule Constraints
 13. Equipment & Services Not Specifically Defined in the Above Scope of Work
 14. Noise Mitigation Equipment and/or Noise Barriers

15. Ventilation Equipment and Team Watch Resources for Work Required in Confined Spaces
16. Removal, Replacement and/or Relocation of Existing Utilities

Thank you for the opportunity to submit this proposal and please reach out if any questions arise.

W. M. Lyles, Co.
System Integration Division

A handwritten signature in black ink, appearing to read 'Tim Fassio', with a long horizontal flourish extending to the right.

Tim Fassio
SI Estimating Manager
Tim.Fassio@WMLylesCo.com
Cell Phone: 530-499-0405

Notes:

1. The following labor and equipment rates are fully loaded pricing (overhead and markup).
2. The labor and equipment rate sheet will be used for time and material project costing.

		*Overtime multiplier shall be applied to hourly rates only	
Base Labor	Standard Time (per hour)	Overtime (per hour)	Double Time (per hour)
Project Management	\$ 225.00	\$	\$
Electrical I&C Engineering	\$ 225.00	\$ 350.00	\$ 550.00
Automation Engineer (PLC/SCADA)	\$ 225.00	\$ 350.00	\$ 550.00
Automation Engineer (Networking & Telemetry)	\$ 250.00	\$ 375.00	\$ 600.00
Assembly, Wire & Test	\$ 200.00	\$ 275.00	\$ 450.00
Field Service Technician	\$ 225.00	\$ 350.00	\$ 550.00
	\$	\$	\$

[illegible]

Company Name	W. M. Lyles Co.
Name	Shain Thomas
Title	Vice President, System Integration Division
Date	July 8, 2024

Notes:

- [illegible]

Company Name	W. M. Lyles Co.
Name	Shain Thomas
Title	Vice President, System Integration Division
Date	July 8, 2024

Agenda Item

7.B.

Legal Counsel Review: Yes

Meeting Date: October 3, 2024

TO: Board of Directors

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

STAFF CONTACT: Amber Boone, Director of Environmental Compliance

SUBJECT: Regional Treatment Plant (RTP) Intent to Transfer Letter

The San Diego Regional Water Quality Control Board has requested that SOCWA submit an intent to transfer the Regional Treatment Plant (RTP) to the Moulton Niguel Water District (MNWD) from SOCWA to MNWD. SOCWA staff distributed the intent to transfer the letter RTP to SOCWA Member agencies for comment. Comments have been included in the related comments into the transmittal of the letter included in this staff report.

Recommended Action: Board Discussion/Direction and Action.



South Orange County Wastewater Authority

October 3, 2024

David Gibson
California Regional Water Quality Control Board
San Diego Region
2375 Northside Dr., Suite 100
San Diego, CA. 92108

SUBJECT: Intent to transfer the Regional Treatment Plant from SOCWA to Moulton
Niguel Water District

Dear Mr. Gibson:

On behalf of the South Orange County Wastewater Authority (SOCWA) Board, I am writing to formally communicate our intent to transfer ownership and operation of the Regional Treatment Plant to the Moulton Niguel Water District. While the SOCWA Board has made no final decision, the matter will be carefully considered at the October 3, 2024, SOCWA Board of Directors meeting. We anticipate a decision will be made prior to the Regional Board's December 11, 2024, meeting, but to meet the necessary 30-day public notification process, it is important to notify the Regional Board now to secure a place on that agenda.

This transfer proposal aligns with SOCWA's ongoing efforts to optimize wastewater management operations in our region and enhance efficiency while ensuring continued compliance with all applicable water quality standards and regulations.

The SOCWA Board is committed to working closely with your office and the Moulton Niguel Water District to ensure a seamless and transparent transition should the process move forward. We respectfully request your support and guidance as we move forward with this important change in our regional wastewater treatment infrastructure. If you have any questions or comments, please contact me at 949-234-5409 or via email at amberb@socwa.com.

Respectfully,

SOUTH ORANGE COUNTY WASTEWATER AUTHORITY

cc: File

Agenda Item

7.C.

Legal Counsel Review: Yes

Meeting Date: October 3, 2024

TO: Board of Directors

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

STAFF CONTACT: Amber Boone, Director of Environmental Compliance

SUBJECT: Artificial Intelligence (AI) Policy

The AI Workshop on May 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 Intelligence¹ 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 has created an AI Policy for the Board to consider providing 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 emphasizes the importance of risk management, alignment with existing data governance, and the establishment of procedures to ensure compliance with relevant laws and agency policies.

The initial draft of this policy was developed through the coordinated efforts of over 150 state and local agencies in the GovAI Coalition, who are dedicated to the responsible and purposeful use of AI that benefits all members of the community.

Recommended Action: Staff recommends that the Board of Directors approve the Artificial Intelligence (AI) Policy.

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

Artificial Intelligence (AI) Policy

SOCWA

I. Purpose

This policy establishes a comprehensive yet flexible governance structure for AI systems used by, or on behalf of, the SOCWA. This policy enables SOCWA to use AI systems for the benefit of the member agencies while safeguarding against potential harm.

The key objectives of the AI Policy are to:

- Provide guidance that is clear, easy to follow, and supports decision-making for the staff (full-time, part-time), interns, consultants, contractors, partners, and volunteers who may be purchasing, configuring, developing, operating, or maintaining SOCWA's AI systems or leveraging AI systems to provide services to SOCWA.
- Ensure that when using AI systems, SOCWA, or those operating on its behalf, adhere to the Guiding Principles that represent values with regard to how AI systems are purchased, configured, developed, operated, or maintained.
- Define roles and responsibilities related to SOCWA's usage of AI systems.
- Establish and maintain processes to assess and manage risks presented by AI systems used by SOCWA.
- Align the governance of AI systems with existing data governance, security, and privacy measures in accordance with SOCWA's Acceptable Use Policy.
- Define prohibited uses of AI systems.
- Establish "sunset" procedures to safely retire AI systems that no longer meet the needs of SOCWA.
- Define how AI systems may be used for legitimate SOCWA purposes in accordance with applicable local, state, and federal laws, and existing SOCWA policies.

SOCWA defines "artificial intelligence" or "AI" to be a machine-based system that can, for a given set of human-defined objectives, make predictions, recommendations, or decisions influencing real or virtual environments.¹ AI systems use machine- and human-based inputs to perceive real and virtual environments; abstract such perceptions into models through analysis in an automated manner; and use model inference to formulate options for information or action.

SOCWA defines an "AI system" to be any data system, software, hardware, application, tool, or utility that operates in whole or in part using AI.²

II. Scope

This policy applies to:

1. All AI systems deployed by SOCWA and
2. Staff (full-time, part-time), interns, consultants, contractors, partners, and volunteers who may be purchasing, configuring, developing, operating, or maintaining SOCWA's AI systems or who may be leveraging AI systems to provide services to SOCWA.

¹ Definition from [15 U.S.C. 9401\(3\)](#).

² Definition from [United States Executive Order No. 14110 on Safe, Secure, and Trustworthy Development and Use of Artificial Intelligence](#).

Artificial Intelligence (AI) Policy

SOCWA

III. Guiding Principles for Responsible AI Systems

These principles describe the [SOCWA's] values with regard to how AI systems are purchased, configured, developed, operated, or maintained.

1. **Human-Centered Design:** AI systems are developed and deployed with a human-centered approach that evaluates AI-powered services for their impact on the public.
2. **Security & Safety:** AI systems maintain confidentiality, integrity, and availability through safeguards that prevent unauthorized access and use. Implementation of AI systems is reliable and safe and minimizes risks to individuals, society, and the environment.
3. **Privacy:** Privacy is preserved in all AI systems by safeguarding personally identifiable information (PII) and sensitive data from unauthorized access, disclosure, and manipulation.
4. **Transparency:** The purpose and use of AI systems are proactively communicated and disclosed to the public. An AI system, its data sources, operational model, and policies that govern its use are understandable and documented.
5. **Equity:** AI systems support equitable outcomes for everyone. Bias in AI systems is effectively managed with the intention of reducing harm to anyone impacted by its use.
6. **Accountability:** Roles and responsibilities govern the deployment and maintenance of AI systems, and human oversight ensures adherence to relevant laws and regulations.
7. **Effectiveness:** AI systems are reliable, meet their objectives, and deliver precise and dependable outcomes for the utility and contexts in which they are deployed.
8. **Workforce Empowerment:** Staff are empowered to use AI in their roles through education, training, and collaborations that promote participation and opportunity.

IV. Roles & Responsibilities

Several roles are responsible for enforcing this policy, as outlined below.

- The IT Systems Administrator (ITSA), or equivalent position, is responsible for directing SOCWA technology resources, policies, projects, services, and coordinating the same with other SOCWA departments. The ITSA shall actively ensure AI systems are used in accordance with SOCWA Acceptable Use Policy or applicable policy. The ITSA shall actively ensure the AI system is used in accordance with this policy.
- The ITSA is responsible for overseeing the enterprise security infrastructure cybersecurity operations, updating security policies, procedures, standards, guidelines, and monitoring policy compliance.
- The ITSA is responsible for overseeing the enterprise digital privacy practices, data processing practices, and responsible usage of technology in compliance with the Acceptable Use Policy. The ITSA is responsible for overseeing the privacy practices of AI systems used by or on behalf of SOCWA departments.
- SOCWA departments are responsible for following this policy and following updates to this policy and the Acceptable Use Policy and shall check compliance with these documents at least annually.
- The ITSA shall notify SOCWA departments when an update to this policy or the Acceptable Use Policy is released.
- **SOCWA General Counsel** is responsible for advising of any legal issues or risks associated with AI systems usage by or on behalf of SOCWA departments.

Artificial Intelligence (AI) Policy

SOCWA

- The Acting General Manager or General Manager may, at its discretion, inspect the usage of AI systems and require a department to alter or cease its usage of AI systems or a partner's usage of AI systems on behalf of the department.
- The IT Department is responsible for overseeing the procurement of AI systems and requiring vendors to comply with SOCWA policy standards through contractual agreements.

V. Policy

When purchasing, configuring, developing, operating, or maintaining AI systems, SOCWA will:

- Uphold the Guiding Principles for Responsible AI Systems.
- Conduct an AI Review to assess the potential risk of AI systems. The ITSA is responsible for coordinating the review of AI systems used by SOCWA.
- Obtain technical documentation about AI systems or create equivalent documentation if internally developing the AI system.
- Require contractors to comply with AI Policy overseen by the ITSA; and
- In the event of an incident involving the use of the AI system, SOCWA will follow an Incident Response Plan in accordance with State and Federal guidelines. The ITSA is responsible for overseeing the security practices of AI systems used by or on behalf of SOCWA departments.

Prohibited Uses

The use of certain AI systems is prohibited due to the sensitive nature of the information processed and severe potential risk. This includes the following prohibited purposes:

- Real-time and covert biometric identification.
- Emotion analysis, or the use of computer vision techniques to classify human facial and body movements into certain emotions or sentiments (e.g., positive, negative, neutral, happy, angry, nervous).
- Fully automated decisions that do not require any meaningful human oversight but substantially impact individuals.
- Social scoring, or the use of AI systems to track and classify individuals based on their behaviors, socioeconomic status, or personal characteristics.
- Cognitive behavioral manipulation of people or specific vulnerable groups.
- Autonomous weapons systems.

If SOCWA staff become aware of an instance where an AI system has caused harm, staff must report the instance to their supervisor and the ITSA within 24 hours.

Sunset Procedures

If an AI system operated by SOCWA or on its behalf ceases to provide a positive utility to SOCWA's member agencies as determined by the ITSA then the use of that AI system must be halted unless express exception is provided by the Acting General Manager or General Manager. If the abrupt cessation of the use of that AI system would significantly disrupt the delivery of SOCWA services, usage of the AI system shall be gradually phased out over time.

Artificial Intelligence (AI) Policy

SOCWA

Public Records

SOCWA is subject to the California Public Records Act requests. SOCWA staff must follow all current procedures for records retention and disclosure.

Policy Enforcement

All employees and agents of SOCWA, whether permanent or temporary, interns, volunteers, contractors, consultants, vendors, and other third parties operating AI systems on behalf of the SOCWA are required to abide by this Policy and the associated Acceptable Use Policy.

VI. Violations of the AI Policy

Violations of any section of the AI Policy, including failure to comply with SOCWA's Acceptable Use Policy may be subject to disciplinary action, up to and including termination. Violations made by a third party while operating an AI system on behalf of SOCWA may result in a breach of contract and/or pursuit of damages. Infractions that violate local, state, federal, or international law may be remanded to the proper authorities.

VII. Terms & Definitions

Artificial Intelligence: "Artificial intelligence" or "AI" to be a machine-based system that can, for a given set of human-defined objectives, make predictions, recommendations, or decisions influencing real or virtual environments. Artificial intelligence systems use machine- and human-based inputs to perceive real and virtual environments; abstract such perceptions into models through analysis in an automated manner; and use model inference to formulate options for information or action.

Algorithm: A series of logical steps through which an agent (typically a computer or software program) turns inputs into outputs.

AI system: Any system, software, sensor, or process that automatically generates outputs including, but not limited to, predictions, recommendations, or decisions that augment or replace human decision-making. This extends to software, hardware, algorithms, and data generated by these systems, used to automate large-scale processes or analyze large data sets.

Agenda Item

7.E.

Board of Directors Meeting

Meeting Date: October 3, 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

California Data Collaborative Conference Update

The 9th Annual California Water Data Summit, themed "Pioneering the Integrated Network," occurred on August 15-16, 2024, at the University of San Diego. The two-day event brought together water industry professionals to explore data-driven approaches in water management. The following are the key themes that SOCWA staff gleaned from attendance at the Summit.

Fundamental Principles and Technical Approach: Modern water management is grounded in principles of standardization and uncertainty reduction. The approach emphasizes data capture for future use and value addition through metrics and benchmarking. Four key pillars guide this strategy: centralization, optimization, improvement, and data architecture creation. There is a notable shift towards proactive approaches that focus on serving people's needs, with data playing a crucial role in decision-making processes. This foundation aims to create a more efficient, responsive, and forward-thinking water management system.

Advanced Metering Infrastructure (AMI) Implementation: AMI implementation focuses on improving customer engagement through anomaly detection prioritizing clean, trusted, and actionable data. The process follows a milestone-based approach to build confidence in anomaly detection and forecasting capabilities. Key steps include weekly data ingestion, rigorous data cleansing, model training, and the use of advanced tools. Data is categorized by housing type to enhance accuracy. This comprehensive approach has resulted in a significant reduction in anomaly detection errors, marking a substantial improvement in water usage monitoring and management.

Practical Applications and Results: The implementation of data-driven approaches in water management has yielded tangible benefits across various areas. These include improved leak reduction

and faulty meter detection, enhanced irrigation detection, and more efficient service planning. System loss measurement has been refined, and customer sentiment has improved through targeted outreach efforts. Operational efficiencies have been gained through the centralization of permits and improved visibility of historical data, which supports better knowledge transfer and predictive insights. These practical applications demonstrate the real-world impact of data-driven water management strategies.

Industry Collaboration and Research: Collaboration between industry and academia is playing a pivotal role in advancing water management practices. Research efforts facilitated by institutions like the UC Extension focus on areas such as water agency collaboration, saltwater intrusion, demographic impacts, and electricity demand estimation. There is a strong emphasis on understanding community behaviors in water management. The integration of practical experiences from real-world implementations informs best practices, creating a feedback loop between research and application. This collaborative approach ensures that academic insights are grounded in practical realities and industry needs.

Data-Driven Approaches and Technology: The technological landscape of water management is characterized by an emphasis on open-source tools and code libraries. This approach promotes innovation, transparency, and collaboration within the industry. There is a concerted effort to integrate insights from academia and NGOs in solution development. Importantly, the focus remains on serving people's needs rather than implementing technology for its own sake. This human-centric approach to technology ensures that innovations in water management are aligned with practical, real-world requirements.

Policy and Funding Considerations: Policy and funding in water management are evolving to address contemporary challenges. There is growing recognition of water as a human right, influencing policy development and implementation strategies. Efforts are underway to quantify and address drinking water challenges, with an increased focus on water affordability. The integration of climate change considerations into water management strategies reflects an awareness of long-term environmental impacts. These policy considerations aim to ensure that advancements in water management technology and practices translate into tangible improvements in water access and quality for all communities.

Monitoring Violation Resolutions

The San Diego Regional Water Quality Control Board is reviewing and completing reported monitoring violations for each of the NPDES permits. The Regional Board provides options for resolution and public comment periods based on direction from affected agencies. We have completed the Aliso Creek Ocean Outfall settlement and will work with agencies for a resolution on the San Juan Creek Ocean Outfall permit. SOCWA does not budget for monitoring exceedances and passes direct costs to individual agencies, as required, for resolution.